

PRODUCT CATALOG

AC Fans | DC Fans | Fan Trays Accessories | Blowers



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Note 1: The drawings and photos featured in this catalog may not reflect the newest frames and designs that are currently available. Design changes and improvements may be made without prior notification.

Note 2: Data tolerance is +/-10%.

Note 3: ORION FANS meet UL/cUL, TUV, VDE and CE Standards. Most ORION FANS are UL/cUL approved and most carry European approvals as well. Models not currently registered with European approval agencies will be submitted (at our discretion) upon customer request.

Note 4: Additional AC and DC voltages not covered in this catalog are available by special order. Ultra High and Ultra Low speeds are also available by special order. (Minimums may apply.)

Note 5: We make additions to our product line frequently. If you cannot find what you are looking for please give us a call at 800-323-2439 or 214-340-0265 or visit our website at www.orionfans.com.

Note 6: Product is warranted against defects in workmanship and materials for 1 year from date of purchase.





FAN FACTS...

LIFE EXPECTANCY

Dual Ball bearing fans will run continuously and reliably for up to 60,000+ hours based on L10 calculations. L10 life for sleeve bearing fans is up to 30,000 hours and sealed sleeve over 50,000 hours. Life will vary depending on the fan size and operating conditions and temperature.

FRAMES

AC Fans - Diecast aluminum

DC Fans - UL94V-0 glass fiber reinforced plastic is standard for frame sizes 120mm and smaller. Aluminum frames are standard for 127mm and larger. 120mm frames are available in both plastic and aluminum.

IMPELLERS

Glass reinforced thermoplastic - UL94V-0. Optional metal impellers are available for a number of models.

ISO 9001:2008 Certified 951001232-A UL E170149

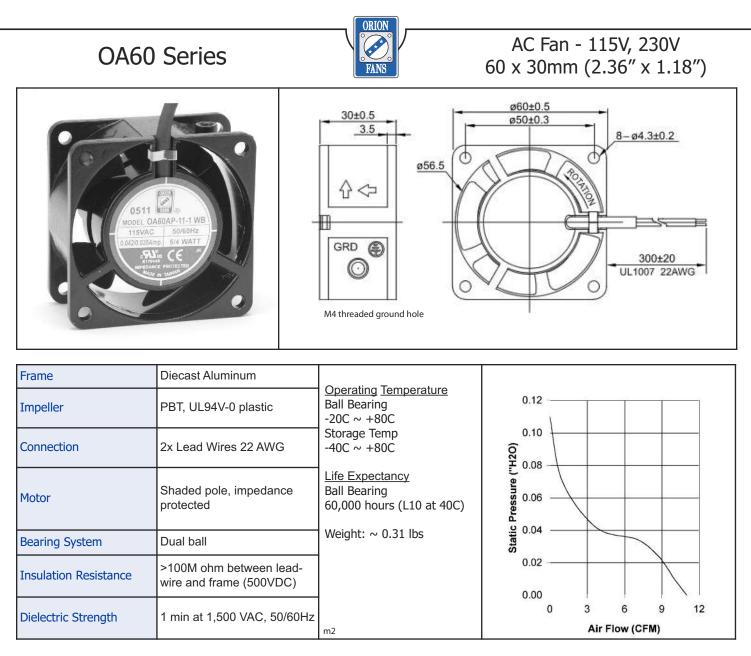
Orion	Fans	Part Nun	nber Con	Orion Fans Part Number Configurator Tables - AC Fans	bles - AC F	
	A 109 AP	- 22 - _		₽⊢		FANS
				Special Function: R = Reverse Airflow 18 = Metal Impeller SF = Salt Fog Rated	03 = Temperature Control 55 or IP55 = IP55 Rated	XC = High Performance 56 = IP56 Rated
			Bearing Type:	B = Ball bearing S	= Sleeve Bearing	
			Termination: T	T = Quick connect terminals	W = 12" wire leads	
			Speed Version: 1 =	1 = High Speed 2 = Medium Speed	peed 3 = Low Speed	
		Voltage:	11 = 115VAC 12, 11 11/22 or 1/2 = Dual Volt	11 = 115VAC 12, 115 = 120VAC 22, 23, 230 = 230VAC 11/22 or 1/2 = Dual Voltage (115VAC or 230VAC depending on wire connections)	230VAC nding on wire connections)	
	Fre	Frame Type: AP = Alumi AN = Alumi SAP = Stac	 AP = Aluminum painted AN = Aluminum natural finish SAP = Stackable aluminum painted 	APL = Aluminum painted, low profile ANL = Aluminum natural finish, low profile SAPL = Stackable aluminum painted, low profile	ow profile nish, Iow profile n painted, Iow profile	
	Model: (case size in mm)		60 = 60 × 60 × 30 92 = 92 × 92 × 25 109 = 120 × 120 × 38 5920 or 172 (SAP) = 172 × 150 × 51 172 (SAPL) = 172 × 150 × 38 180 = 176 × 176 × 89 200EC = 250 × 76	825 = 80 × 80 × 25 938 = 92 × 92 × 38 4715 = 120 × 120 × 38 (low cost) 162 = 172 × 172 × 55 (metal) 172 = 172 × 172 × 51 180 (ANL/APL) = 180 × 180 × 65 205 = 205 × 72		80 = 80 x 80 x 38 125 = 120 x 120 x 25 119 = 127 x 127 x 38 162-5E = 172 x 172 x 55 172 (SAP/ X G) = 172 x 150 x 55 200 = 200 x 220 x 70 225 = 225 x 225 x 80
		254 = 254 × 89 280 = 280 × 280 ×	x 80	2543 = 254 x 89 (3 blade)	2547 = 254	2547 = 254 x 89 (7 blade)
Base Model OA = AC	ase Model OA = AC fan				Special function coo fan label unless s	Special function codes may not appear on the fan label unless specified by the customer

0D 12 38 AP-				
	Р-12 Н Т В-01			FANS
		Special Function: 01= Tachometer Output 5VTTL* 04= Thermistor Speed Control (wire) 07= Temperature Sensor 10= Tachometer*+PWM 13=Alarm*+PWM 13=Alarm*+PWM 16= Tachometer*+Alarm*+Thermistor 19=High Temperature 55 or IP55=IP55 Rated * To specify "open collector" instead of 5VT	pecial Function: 01=Tachometer Output 5VTTL* 03=TI 01=Tachometer Output 5VTTL* 03=TI 01=Tachometer Output 5VTTL* 03=TI 04=Thermistor Speed Control (wire) 05=PWM Input 06=D 07=Temperature Sensor 08=Tachometer*+Alarm* 09=TF 10=Tachometer*+PWM 11=Tachometer*+Temperature Sensor 12=Al 13=Alarm*+PWM 14=Alarm*+Temperature Sensor 15=TF 19=High Temperature 20=Conformal Coating 21=CI 55 or IP55=IP55 Rated SF=Salt Fog Rated 21=CI To specify "open collector" instead of 5VTTL, add the letter "a" after the special functions code 21=CI	03=Thermistor Speed Control (hub) 06=Dual Speed 09=Tachometer*+Thermistor 12=Alarm*+Thermistor 15=Tachometer*+Alarm*+PWM 18=Metal Impeller 21=Customized
	High	High Static Pressure: XC=High Performance	VXC=Vane Axial	XC,XE,XJ=Super High Performance
	Bearing Type:	B = Ball bearing S =	Sleeve Bearing SS = Sealed Sleeve Bearing	Bearing
	Termination:	T = Quick connect terminals	<pre>{blank} = 12" wire leads</pre>	
	Speed Version: 1 L	HH=Extra High Speed H=High Speed L=Low Speed LL=Extra Low 3	H=High Speed M=Medium Speed LL=Extra Low Speed	
	Voltage: 05 = 5VDC	12 = 12VDC 24 = 24VDC 48	48 = 48VDC 60 = 60VDC	Other voltages available
Ë	Frame Type: {blank} = Thermop SAPL = Stackable SAP = Stackable E SAP = Stackable E	<pre>{blank} = Thermoplastic Construction SAPL = Stackable Diecast Aluminum Black, Low Profile SAP = Stackable Diecast Aluminum Black SPOT / DIN = Spot Cooling w/ AC Adapter & DIN mounting package</pre>		AP = Diecast Aluminum Black APL = Diecast Aluminum Black, Low Profile SPOT = Spot Cooling w/ AC Adapter
Thickness:	sss: 06 = 6mm 10 = 10mm 32 = 32mm	mm 15 = 15mm 20 = 20mm mm 38 = 38mm 45 = 45mm	25 = 25mm 28 = 28mm 56 = 56mm	
Frame Size (in mm):	25 = 25 x 25 70 = 70 x 70 172 = 172 x 150	30 = 30 x 30 40 = 40 x 40 80 = 80 x 80 92 = 92 x 92 80 = 80 x 65 92 = 92 x 92 92 = 92 x 89	$50 = 50 \times 50$ $52 = 52 \times 52$ $12 = 120 \times 120$ $127 = 127 \times 38$ $280 = 280 \times 89$ Thickne	52 60 = 60 x 60 7 x 38 172(SAPL) = 172 x 38 Thickness dimensions are not included in part numbers for these frame sizes: 127, 172, 180, 254, 280
Base Model: OD = DC	DC fan	Additional suffixes consisting of both numbers and letters may be applied for multiple fan modifications		Special function codes may not appear on the fan label unless specified by the customer

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ans Part Number Configurator	vers & Motorized Impellers
N T	M o
Pa	ര് ഗ
ans	wer
onF	AC Blov
Orion	AC

Orion Fans Part Number Configurator Tables - AC Blowers & Motorized Impellers	22 - 3 B	Bearing Type: B or Blank = Dual Ball Bearing Sealed	<pre>Speed Options: 1 = High Speed 2 = Medium Speed 3 = Low Speed 1/2 = Dual Speed</pre>	Voltage: 11 = 115 or 120VAC 22 = 220 or 230VAC	Type: AN = Aluminum natural finish Blank = Diecast Aluminum	800 = 125 x 126 x 39 308 = 183 x 190 x 70 190 = 190 x 70 220 = 220 x 71 599 = 225 x 99 400 = 404 x 162	wer Other models and frame sizes available torized Impeller All AC motorized impellers ship with required capacitor
is Part Num rs & Motori	OAB 800 AN - 22 - 3			Voltage:	Frame Type: AN	Model: 800 = 125 × 126 × 3 kize in mm) 908 = 183 × 190 × 70 908 = 190 × 70 190 = 190 × 70 220 = 220 × 71 220 = 225 × 99 400 = 404 × 162	OAB = AC Blower OAB = AC Motorized Impeller
Orion Fan AC Blowe	OAB 800					M (siz	Base Model:

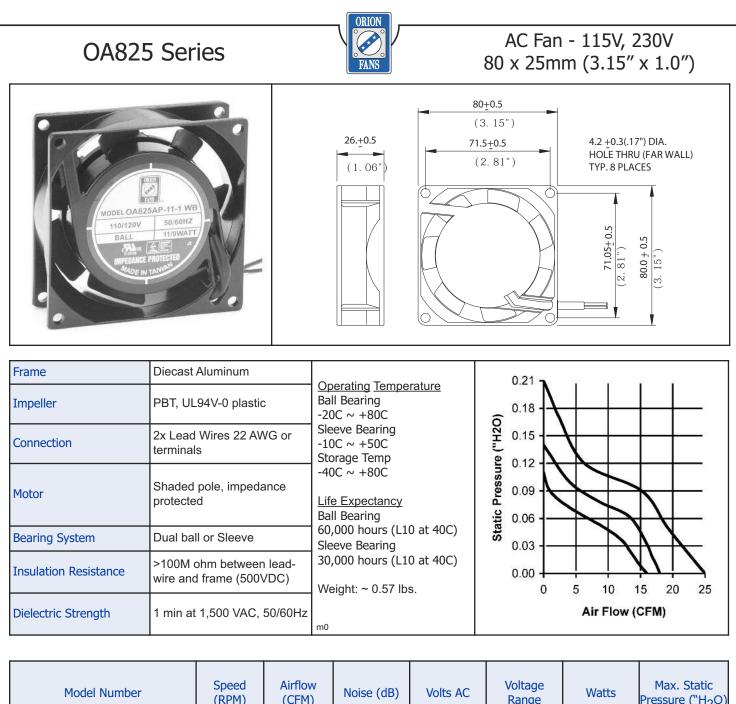
DC DC	Orion Fans DC Blowers	ns Pa ers	Orion Fans Part Number Configurator Tables -	NON CALL
ODB	B 1232	2	- 24 HH B	FANS
			Bearing Type: B = Dual Ball Bearing Sealed	
			Speed Options: HH = Extra High Speed H = High Speed H = High Speed M = Medium Speed L = Low Speed	
			Voltage: 5 = 5VDC 12 = 12VDC 24 = 24VDC 24 = 24VDC 48 = 48VDC	
			Frame Type: PT or Blank = Thermoplastic AN = Aluminum natural finish	
		Model: (size in mm)	182 = 182 × 171 × 82 600 = 120 × 31 1232 = 120 × 32 5009 = 50 × 50 × 09 5115 = 51 × 15 6015 = 60 × 15 7530 = 75 × 30 9733 = 96 × 33	
	Base Model:	ODB = D	ODB = DC Blower Other models and frame sizes available	



Part Number	OA60AP-11-1WB	OA60AP-22-1WB
Nominal Voltage	115VAC	230VAC
Voltage Range	80 ~ 130VAC	160 ~ 260VAC
Rated Power	4 W	4 W
Rated Speed (RPM)	3,100	3,100
Airflow (CFM)	11	11
Noise Level (dB)	28	28
Max. Static Pressure	0.11" H ₂ O	0.11" H ₂ O



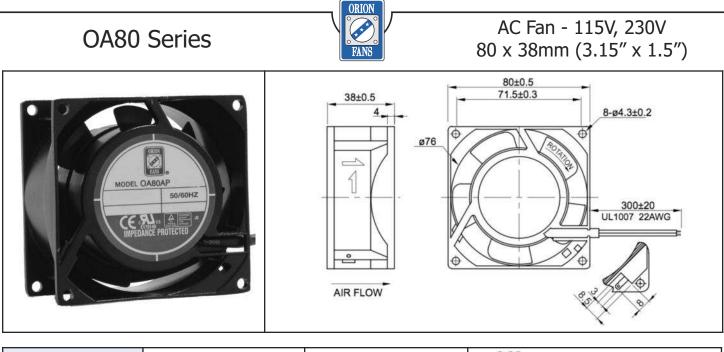




Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure (``H ₂ O)
OA825AP-11-1 *	3,000	25	28	115	80~130	9	.21
OA825AP-11-2 *	2,300	18	24	115	80~130	6	.14
OA825AP-11-3 *	1,900	16	19	115	80~130	4	.11
OA825AP-22-1 *	3,000	25	28	230	160~260	9	.21
OA825AP-22-2 *	2,300	18	24	230	160~260	6	.14
OA825AP-22-3 *	1,900	16	19	230	160~260	4	.11







Frame	Diecast Aluminum		0.25
Impeller	PBT, UL94V-0 plastic	<u>Operating Temperature</u> Ball Bearing -20C ~ +80C	∂ ^{0.20}
Connection	2x Lead Wires 22 AWG or terminals	Sleeve Bearing -10C ~ +50C Storage Temp	0.20 0.15
Motor	Shaded pole, impedance protected	-40C ~ +80C Life Expectancy Ball Bearing	Lic Fress
Bearing System	Dual ball or Sleeve	60,000 hours (L10 at 40C) Sleeve Bearing	tig tig 0.05
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	30,000 hours (L10 at 40C) Weight: ~ 0.62 lbs	0.00
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	-	0 5 10 15 20 25 30 35 Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure ("H ₂ O)
OA80AP-11-1 *	3,000	30	36	115	103~126	9	0.22
OA80AP-11-2 *	2,300	25	32	115	103~126	9	0.16
OA80AP-11-3 *	1,950	17	28	115	103~126	9	0.07
OA80AP-22-1 *	3,000	30	36	230	160~253	12	0.22
OA80AP-22-2 *	2,300	25	32	230	160~253	12	0.16
OA80AP-22-3 *	1,950	17	28	230	160~253	12	0.07





OA9	2 Series	FANS	AC Fan - 115V, 230V 92 x 25mm (3.62" x 1.0")
MODEL 1107 BA			92.0±0.5 (3.62") 82.5±0.5 (3.25") 4.2 (.166") DIA. HOLE THRU TYP.8 PLACES 50±0; (1.25)
8			
Frame	Diecast Aluminum	Quert's Transition	
Frame Impeller	Diecast Aluminum PBT, UL94V-0 plastic	Operating Temperature Ball Bearing -20C ~ +80C	0.20
		Ball Bearing	
Impeller Connection	PBT, UL94V-0 plastic 2x Lead Wires 22 AWG	Ball Bearing -20C ~ +80C Sleeve Bearing -10C ~ +50C Storage Temp -40C ~ +80C <u>Life Expectancy</u> Ball Bearing	
Impeller	PBT, UL94V-0 plastic 2x Lead Wires 22 AWG (~300mm) or terminals Shaded pole, impedance	Ball Bearing -20C ~ +80C Sleeve Bearing -10C ~ +50C Storage Temp -40C ~ +80C <u>Life Expectancy</u> Ball Bearing 60,000 hours (L10 at 40C) Sleeve Bearing	0,000 U.15
Impeller Connection Motor	 PBT, UL94V-0 plastic 2x Lead Wires 22 AWG (~300mm) or terminals Shaded pole, impedance protected 	Ball Bearing -20C ~ +80C Sleeve Bearing -10C ~ +50C Storage Temp -40C ~ +80C <u>Life Expectancy</u> Ball Bearing 60,000 hours (L10 at 40C)	

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure ("H ₂ O)
OA92AP-11-1 *	3,000	35	30	115	80~130	13	.20
OA92AP-11-2 *	2,300	27	22	115	80~130	10	.14
OA92AP-11-3 *	1,900	22	19	115	80~130	6	.09
OA92AP-22-1 *	3,000	35	30	230	160~260	13	.20
OA92AP-22-2 *	2,300	27	22	230	160~260	10	.14
OA92AP-22-3 *	1,900	22	19	230	160~260	6	.09





OA93	8 Seri	ies			ORION FANS		AC Fan 92 x 38m	- 115V, 2 m(3.62" :	
MODEL O. 110/120 BALL 010/120 BALL 010/120 BALL 010/120 BALL 010/120 BALL	938AP-11-1 TB 938AP-11-1 TB 938AP-10-1 TB 938AP-11-1 TB 93				38.5±0.5 (1.52")		92.0±0.5 (3.62") 82.5±0.5 (3.25")	42 (16 H0 LE T TYP. 8F 32.0+0.5 92.0+0.5	HRU
Frame		Aluminum			perating Temper	rature	0.25		
Impeller	PBT, UL	94V-0 plastic			III Bearing 0C ~ +80C				
Connection	2x Lead terminals	Wires 22 AW s	/G or	-10	Sleeve Bearing -10C ~ +50C Storage Temp		90.15		
Motor	Shaded protected	aded pole, impedance tected Lif		-40C ~ +80C Life Expectancy Ball Bearing			8tatic Lessare (H30)		
Bearing System	Dual bal	l or Sleeve		60,000 hours (L10 at 40C					
Insulation Resistance		ohm between frame (500∖		30	Sleeve Bearing 30,000 hours (L10 at 40C) Weight: ~ 0.98 lbs.		0.00 0 10 20 30 40 50		
					e.g 0.00 .2		0		0 40 50
Dielectric Strength	1 min at	1,500 VAC, 8	50/60Hz	m0				Airflow (C	FM)
Dielectric Strength Model Number	<u> </u>	1,500 VAC, Speed (RPM)	50/60Hz Airflov (CFM	m0	Noise (dB)	Volts AC	Voltage Range	Airflow (C	Max. Static
		Speed	Airflov	m0		Volts AC 115			
Model Number	*	Speed (RPM)	Airflov (CFM	m0	Noise (dB)		Range	Watts	Max. Static Pressure (``H ₂ O
Model Number OA938AP-11-1	*	Speed (RPM) 3,100	Airflov (CFM 50	m0	Noise (dB) 32	115	Range 80~130	Watts 9	Max. Static Pressure ("H ₂ O .22
Model Number OA938AP-11-1 OA938AP-11-2	* * *	Speed (RPM) 3,100 2,400	Airflov (CFM 50 39	m0	Noise (dB) 32 23	115 115	Range 80~130 80~130	Watts 9 5	Max. Static Pressure ("H ₂ O .22 .17
Model Number OA938AP-11-1 OA938AP-11-2 OA938AP-11-3	* * * *	Speed (RPM) 3,100 2,400 1,800	Airflov (CFM 50 39 26	m0	Noise (dB) 32 23 19	115 115 115	Range 80~130 80~130 80~130 80~130	Watts 9 5 3	Max. Static Pressure ("H ₂ O .22 .17 .10





				ORION					
OA125	Seri	es		FANS		AC Fan 120 x 25r	- 115V, nm (4.7″		
115740				25±0.5 4 1 1 1 3 AIR FLOW		120±0.5 104.8±0.3 8-ø4.3±0.2 UL1007 22AWG			
Frame	Diecast	Aluminum		Operating Temp Ball Bearing -20C ~ +80C	<u>perature</u>			1 2 3	
Impeller	PBT, UL	.94V-0 plastic	C	Sleeve Bearing -10C ~ +50C)	0.25			
Connection	2x Lead terminal	Wires 22 AV	VG or			0.20 O.20	X		
Motor	Shaded impedar	pole, nce protected	ł	Life Expectancy Ball Bearing 60,000 hours (L Sleeve Bearing		0.15 0.10	X-		
Bearing System	Dual ba	ll or Sleeve		30,000 hours (L Weight: ~ 0.73	-	Static P1			
Insulation Resistance		ohm betweer d frame (500 ^v		m2		0.00		50 60 70 80	
Dielectric Strength	1 minute 50/60Hz	e at 1,500 VA z	NC,				Airflow	(CFM)	
Model Number		Speed (RPM)	Airflow (CFM)		Volts AC	Voltage Range AC	Watts	Max. Static Pressure (``H ₂ O)	
OA125AP-11-1 *		2,900	75	42	115	80 ~ 130	11	0.21	
OA125AP-11-2 *		2,500	60	37	115	80 ~ 130	11	0.16	
OA125AP-11-3 *		2,000	53	33	115	80 ~ 130	11	0.11	
OA125AP-22-1 *		2,900	75	42	230	160 ~ 260	14	0.21	
OA125AP-22-2 *		2,500	60	37	230	160 ~ 260	14	0.16	
OA125AP-22-3 *		2,000	53	33	230	160 ~ 260	14	0.11	



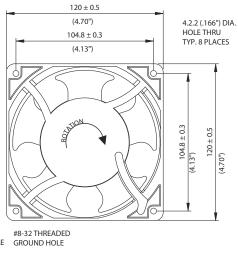
OA109 Series



AC Fan - 115V, 230V 120x38mm (4.7"x 1.5")







Frame	Diecast Aluminum	On anything Tanana and hung	∕ High
Impeller	PBT, UL94V-0 plastic	<u>Operating Temperature</u> Ball Bearing -20C ~ +80C	0.30 Medium Low
Connection	2x 300mm Lead wires (22AWG) or terminals	Sleeve Bearing -10C ~ +50C Storage Temp -40C ~ +100C	0.25 0.20 0.20
Motor	AC shaded pole, impedance protected	Life Expectancy Ball Bearing 60,000 hours (L10 at 40C)	Static Pressure ("H20) 0.10 0.10
Bearing System	Dual ball or Sleeve	Sleeve Bearing 30,000 hours (L10 at 40C)	0.05
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	Weight: ~ 1.12 lbs.	
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m0	Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure (``H ₂ O)
OA109AP-11-1 *	3,000	110	42	115	80~130	15	.28
OA109AP-11-2 *	2,300	71	35	115	80~130	11	.24
OA109AP-11-3 *	1,600	51	25	115	80~130	8	.15
OA109AP-22-1 *	3,000	110	42	230	160~260	15	.28
OA109AP-22-2 *	2,300	71	35	230	160~260	11	.24
OA109AP-22-3 *	1,600	51	25	230	160~260	8	.15



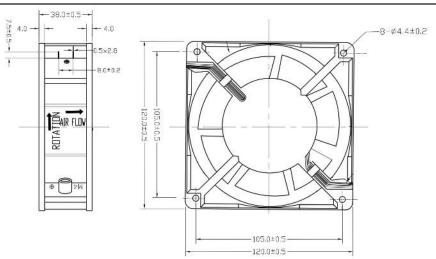


OA109 'XC Series'



AC Fan - 115V, 230V 120 x 38mm (4.7" x 1.5")





Frame	Diecast Aluminum		50Hz 60Hz
Impeller	PBT, UL94V-0 plastic	<u>Operating Temperature</u> Ball Bearing -10C ~ +65C	0.50
Connection	2x Lead wires (24AWG*) or Terminals	Storage Temp -20C ~ +80C	0.40 CEL
Motor	AC capacitor drive, thermally protected	<u>Life Expectancy</u> Ball Bearing 60,000 hours (L10 at 40C)	
Bearing System	Dual ball	(* Wires ~300mm)	
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	Weight: ~1.12 lbs.	0.00
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m4	0 35 70 105 140 Airflow (CFM)

Part Number	OA109AP-11-1 * B XC	OA109AP-22-1 * B XC
Nominal Voltage	115 VAC	230 VAC
Rated Power (50/60 Hz)	21 / 22 W	21 / 22 W
Nominal Current	0.17 / 0.18 A	0.10 / 0.11 A
Frequency (Hz)	50 / 60	50 / 60
Rated Speed (RPM)	2,800 / 3,300	2,800 / 3,300
Airflow (CFM)	110 / 131	110 / 131
Noise Level (dB)	43 / 47	43 / 47
Max. Static Pressure	0.38" / 0.49" H ₂ O	0.38" / 0.49" H ₂ O

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 \ast Insert "T" to specify Terminal or "W" to specify Wire leads

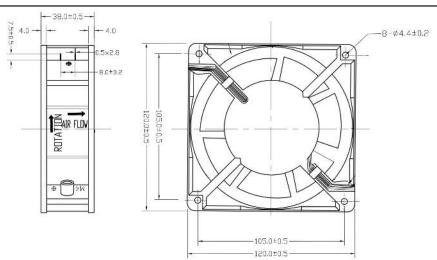


OA4715 'Challenger Series'



AC Fan - 115V, 230V 120 x 38mm (4.7" x 1.5")





Frame	Diecast Aluminum	Operating Temperature		0.40	٦	1	1	1	1	1	
Impeller	PBT, UL94V-0 plastic	<u>Operating Temperature</u> Ball Bearing -10C ~ +70C	6	0.35	┢						
Connection	Terminals	Storage Temp -20C ~ +80C	e ("H2O)	0.30 0.25							
Motor	AC shaded pole, impedance protected	<u>Life Expectancy</u> Ball Bearing 60,000 hours (L10 at 40C)	ic Pressure	0.20 0.15							
Bearing System	Dual ball	Weight: ~1.2 lbs.	Static	0.10	\vdash				\mathbf{k}	\top	
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)			0.05 0.00						X	
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m4			0 2		0 6 Iow (100	120

Part Number	OA4715-12TB	OA4715-23TB
Nominal Voltage	115 VAC	230 VAC
Nominal Current	0.30 A	0.23 A
Rated Power	24 W (60Hz)	24 W (60Hz)
Rated Speed (RPM)	3,000	3,000
Airflow (CFM)	110	110
Noise Level (dB)	44	44
Max. Static Pressure	0.37" H ₂ O	0.37" H ₂ O

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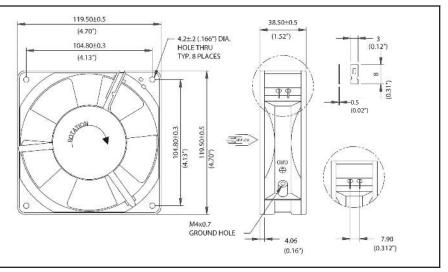


OA109 (AIOS)



AC Fan - 115V, 230V, Reverse Airflow 120 x 38mm (4.7" x 1.5")





Frame	Diecast Aluminum	Operating Temperature	High
Impeller	PBT, UL94V-0 plastic	Ball Bearing -20C ~ +80C Sleeve Bearing	0.35
Connection	2x 300mm Lead wires (22AWG) or terminals	-10C ~ +50C Storage Temp -40C ~ +80C	0.30 0.25
Motor	AC shaded pole, impedance protected	<u>Life Expectancy</u> Ball Bearing 60,000 hours (L10 at 40C) Sleeve Bearing	eg 0.20 0.15
Bearing System	Dual ball or Sleeve	30,000 hours (L10 at 40C)	
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	AIOS Air Input Over Struts	0.05
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	Weight: ~1.2 lbs.	0 15 30 45 60 75 90 Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure ("H ₂ O)
OA109AP-11-1 * R	3,100	99	47	115	80~130	15	.33
OA109AP-11-2 * R	2,750	85	45	115	80~130	13	.25
OA109AP-11-3 * R	2,300	75	38	115	80~130	12	.16
OA109AP-22-1 * R	3,100	99	47	230	160~260	15	.33
OA109AP-22-2 * R	2,750	85	45	230	160~260	13	.25
OA109AP-22-3 * R	2,300	75	38	230	160~260	12	.16



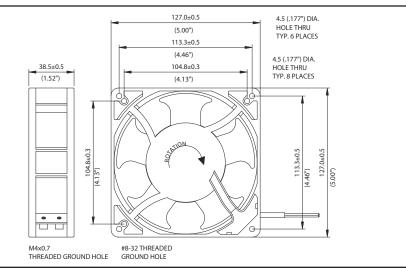






AC Fan - 115V, 230V 127 x 38mm (5.0" x 1.5")





Frame	Diecast Aluminum	Operating Temperature	0.25
Impeller	PBT, UL94V-0 plastic	Ball Bearing -20C ~ +80C Sleeve Bearing	■ 0.20
Connection	2x Lead Wires 22 AWG or terminals	-10C ~ +50C Storage Temp -40C ~ +80C	0.15
Motor	Shaded pole, impedance protected Tachometer available (5VTTL), input 5 ~24V	<u>Life Expectancy</u> Ball Bearing 60,000 hours (L10 at 40C) Sleeve Bearing	Static Lassing
Bearing System	Dual ball or Sleeve	30,000 hours (L10 at 40C)	[₩] 0.05
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	Weight: ~ 1.3 lbs.	0.00
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m0	0 40 80 120 Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Watts Range		Max. Static Pressure (``H ₂ O)
OA119AP-11-1 *	2,750	130	46	115	80~130	14	.24
OA119AP-11-2 *	2,300	95	37	115	80~130	10	.15
OA119AP-11-3 *	1,400	74	28	115	80~130	7	.10
OA119AP-22-1 *	2,750	130	46	230	160~260	14	.24
OA119AP-22-2 *	2,300	95	37	230	160~260	10	.15
OA119AP-22-3 *	1,400	74	28	230	160~260	7	.10



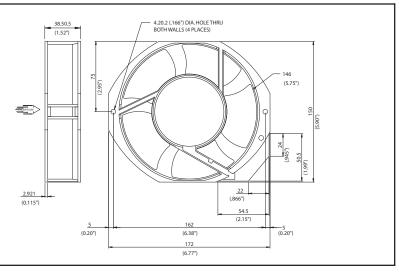


OA172SAPL Series



AC Fan - 115V, 230V 172 x 150 x 38mm (6.7"x 5.9"x 1.5")





Frame	Diecast Aluminum	Operating Temperature	
Impeller	PBT, UL94V-0 plastic	Ball Bearing -20C ~ +80C Storage Temp	
Connection	2x Lead Wires or Terminals	-40C ~ +80C	0.70 H0.60
Motor	Capacitor drive, thermally protected	Life Expectancy Ball Bearing 60,000 hours (L10 at 40C)	0.50 0.40 0.30 0.20
Bearing System	Dual ball	Weight: ~ 1.6 lbs.	[₩] 0.20 0.10
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)		0.00 0 40 80 120 160 200 240
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m2	Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure (``H ₂ O)
OA172SAPL-11-1 *	3,400	228	58	115	103~126	28	0.87
OA172SAPL-11-2 *	2,750	162	50	115	103~126	27	0.35
OA172SAPL-11-3 *	1,700	103	44	115	103~126	26	0.26
OA172SAPL-22-1 *	3,400	228	58	230	160~260	28	0.87
OA172SAPL-22-3 *	1,700	103	44	230	160~260	26	0.26



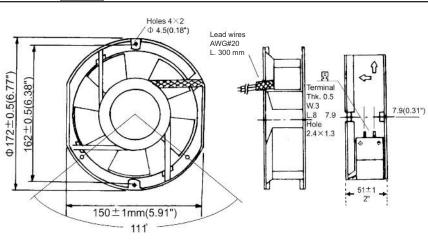


OA172S Series



AC Fan - 115V, 230V 172 x 150 x 51mm (6.7"x 5.9" x 2.0")





Frame	Diecast Aluminum		-1 -2 -3
Impeller	PBT, UL94V-0 plastic	<u>Operating Temperature</u> Ball Bearing -20C ~ +70C	0.80
Connection	2x Lead Wires or Terminals	Storage Temp -40C ~ +80C	
Motor	Capacitor drive, impedance protected	Life Expectancy Ball Bearing 60,000 hours (L10 at 40C)	0.40 DELESSING
Bearing System	Dual ball	Weight: ~ 2.6 lbs.	
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)		0.00
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m0	0 50 100 150 200 250 Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure (``H ₂ O)
OA172SAP-11-1 *	3,200	235	52	115	80~130	35	0.70
OA172SAP-11-2 *	2,400	170	42	115	80~130	20	0.49
OA172SAP-11-3 *	1,800	135	33	115	80~130	16	0.43
OA172SAP-22-1 *	3,200	235	52	230	160~260	35	0.70
OA172SAP-22-2 *	2,400	170	42	230	160~260	20	0.49
OA172SAP-22-3 *	1,800	135	33	230	160~260	16	0.43



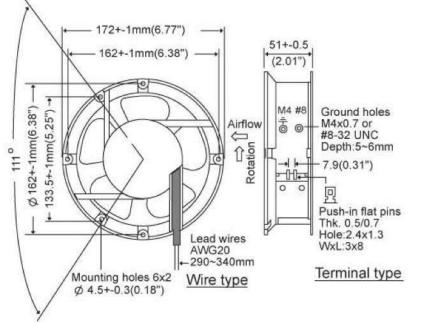






AC Fan - 115V, 230V 172 x 51mm (6.7" x 2.0")





Frame	Diecast Aluminum		-1 -2 -3
Impeller	PBT, UL94V-0 plastic	<u>Operating Temperature</u> Ball Bearing -40C ~ +70C	0.80
Connection	2x Lead Wires or Terminals	Storage Temp -40C ~ +80C	
Motor	Capacitor drive, impedance protected	Life Expectancy Ball Bearing 60,000 hours (L10 at 40C)	c Pressure
Bearing System	Dual ball	Weight: ~ 2.7 lbs.	
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)		0.00
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m0	0 50 100 150 200 250 Airflow (CFM)

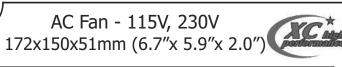
Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure (``H ₂ O)
OA172AP-11-1 *	3,200	235	52	115	80~130	35	0.70
OA172AP-11-2 *	2,400	170	42	115	80~130	20	0.49
OA172AP-11-3 *	1,800	135	33	115	80~130	16	0.43
OA172AP-22-1 *	3,200	235	52	230	160~260	35	0.70
OA172AP-22-2 *	2,400	170	42	230	160~260	20	0.49
OA172AP-22-3 *	1,800	135	33	230	160~260	16	0.43



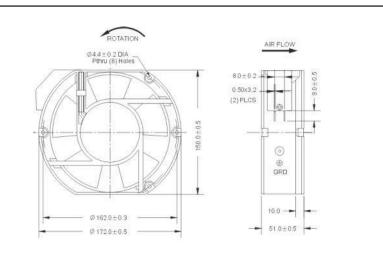


OA172 'XC Series'









Frame	Diecast Aluminum	Operating Temperature Ball Bearing	
Impeller	PBT, UL94V-O plastic	-40C ~ +70C Storage Temp	0.80
Connection	2x Lead Wires or Terminals	-40C ~ +80C Life Expectancy	0.60
Motor	Capacitor drive, thermally protected	Ball Bearing 60,000 hours (L10 at 40C)	Bressure
Bearing System	Dual ball (Sleeve available)	Weight: ~ 2.2 lbs.	0.20 Static
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)		0.00 0 75 150 225 300
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m4	Airflow (CFM)

Part Number	OA172SAP-11-1 ()B XC	OA172SAP-22-1 ()B XC
Nominal Voltage	115 VAC	230 VAC
Voltage Range	100 ~ 125 VAC	200 ~ 240 VAC
Rated Power	50 W (60 Hz)	50 W (60 Hz)
Rated Speed (RPM)	3,300	3,300
Airflow - CFM	300	300
Noise Level - (dB)	61	61
Max. Static Pressure	0.78″ H ₂ O	0.78″ Н ₂ О

() Indicate "T" for terminal or "W" for wire leads



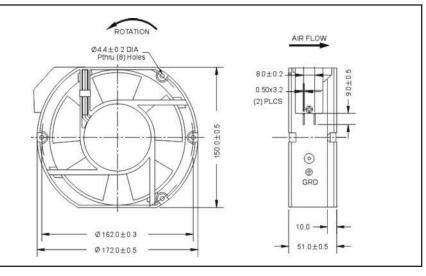


OA5920 'Challenger Series'



AC Fan - 115V, 230V 172 x 150 x 51mm (6.7"x 5.9" x 2.0")





Frame	Diecast Aluminum		0.60
Impeller	PBT, UL94V-0 plastic	<u>Operating Temperature</u> Ball Bearing -10C ~ +70C	0.50
Connection	Terminals	Storage Temp -40C ~ +80C	0.40
Motor	Shaded pole, thermally protected	Life Expectancy Ball Bearing 60,000 hours (L10 at 40C)	Static Pressure
Bearing System	Dual ball (Sleeve available)	Weight: 2.0 lbs.	³ 0.10
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)		0.00 0 50 100 150 200
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m4	Airflow (CFM)

Part Number	OA5920-12TB	OA5920-23TB
Nominal Voltage	115 VAC	230 VAC
Voltage Range	80 ~ 130 VAC	160 ~ 260 VAC
Rated Power	41 W (60Hz)	41 W (60Hz)
Rated Speed (RPM)	3,000	3,000
Airflow (CFM)	180	180
Noise Level (dB)	55	55
Max. Static Pressure	0.51" H ₂ O	0.51" H ₂ O

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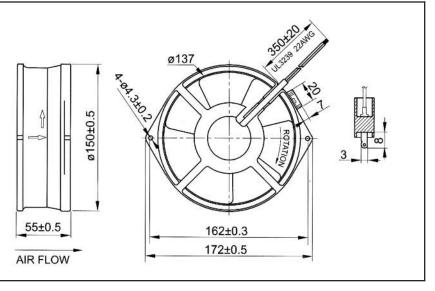


OA162 Series



AC Fan - 115V, 230V 172 x 55mm (6.7" x 2.2")





Frame & Impeller	Diecast Aluminum		0.80
Connection	Terminals or Lead Wires	<u>Operating Temperature</u> Ball Bearing -40C ~ +70C	Q 0.60
Motor	Shaded Pole, thermally protected	Storage Temp -40C ~ +80C <u>Life Expectancy</u> Ball Bearing	CH
Bearing System	Dual ball (Sleeve available)	60,000 hours (L10 at 40C)	
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	Weight: ~ 2.4 lbs.	0.00
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m2	0 50 100 150 200 250 Airflow (CFM)

Part Number	OA162-5E-115 * B	OA162-5E-230 * B
Nominal Voltage	115 VAC	230 VAC
Voltage Range	80 ~ 130 VAC	160 ~ 260 VAC
Rated Power	31 W (60Hz)	31 W (60Hz)
Rated Speed (RPM)	3,400	3,400
Airflow (CFM)	241	241
Noise Level (dB)	66	66
Max. Static Pressure	0.73" H ₂ O	0.73" H ₂ O



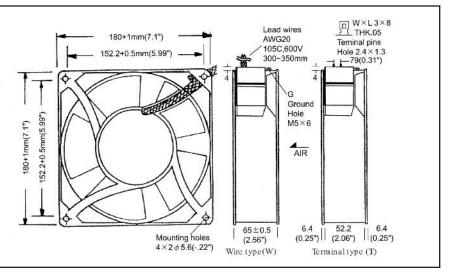


OA180APL Series



AC Fan - 115V, 230V 180 x 65mm (7.1" x 2.6")





Frame	Diecast Aluminum	On out ting Tomportune	-1 -2 -3
Impeller	PBT, UL94V-0 plastic	<u>Operating Temperature</u> Ball Bearing -20C ~ +80C	0.90
Connection	2x Lead Wires 20 AWG or terminals	Storage Temp -40C ~ +80C	0.60
Motor	Single phase Capacitor in- duction, 2/4 pole, inner rotor, thermal protection	Life Expectancy Ball Bearing 60,000 hours (L10 at 40C) Available as dual speed or	D.30
Bearing System	Dual ball	dual voltage	tig 0.30
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	Weight: ~ 4.0 lbs.	0.00
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m0	0 90 180 270 360 450 Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure (``H ₂ O)
OA180APL-11-1 *	3,300	405	60	115	60~130	70	0.83
OA180APL-11-2 *	2,200	280	47	115	60~130	50	0.58
OA180APL-11-3 *	1,650	210	40	115	60~130	38	0.43
OA180APL-22-1 *	3,300	405	60	230	120~260	70	0.83
OA180APL-22-2 *	2,200	280	47	230	120~260	50	0.58
OA180APL-22-3 *	1,650	210	40	230	120~260	38	0.43

* Indicate "TB" for terminal or "WB" for wire leads



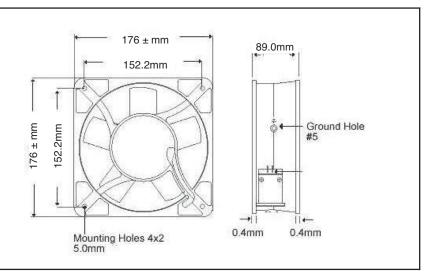


OA180AP Series



AC Fan - 115V, 230V 176 x 89mm (6.9" x 3.5")





Frame	Diecast Aluminum	Operating Temperature	1.00 -
Impeller	PBT, UL94V-O plastic	Ball Bearing -20C ~ +80C Storage Temp	
Connection	2x Lead Wires 20 AWG or terminals	-40C ~ +80C Life Expectancy	0.80 H 0.60
Motor	Capacitor drive, thermally protected	Ball Bearing 60,000 hours (L10, 40C)	0.40
Bearing System	Dual ball	Weight: 4.0 lbs.	Static Static
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)		0.00 0 70 140 210 280 350 420
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m0	Airflow (CFM)

Part Number	OA180AP-11-1 *	OA180AP-22-1 *	
Nominal AC Voltage	115	230	
Voltage Range	60 ~ 130 VAC	120 ~ 260 VAC	
Rated Power (50/60 Hz)	70 W	70 W	
RPM (50/60 Hz)	3350	3350	
Airflow - CFM (50/60 Hz)	375	375	
Noise Level - dB (50/60 Hz)	62	62	
Max. Static Pressure	0.86″ H ₂ O	00.86″ Н ₂ О	

* Indicate "TB" for terminal or "WB" for wire leads







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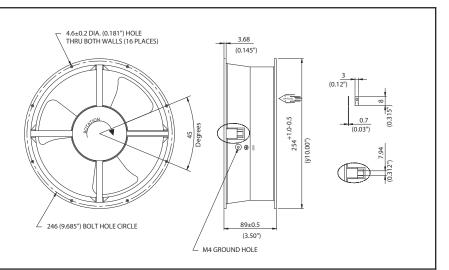


OA254 Series



AC Fan - 115V, 230V 254 x 89mm (10.0" x 3.5")





Frame	Diecast Aluminum	Operating Temperature	0.40 50Hz 60Hz
Impeller	PBT, UL94V-0 plastic	Ball Bearing -20C ~ +80C Storage Temp	0.35
Connection	2x Lead Wires or Terminals	-40C ~ +80C	0.30 0.25
Motor	Capacitor drive, thermally protected	<u>Life Expectancy</u> Ball Bearing 60,000 hours (L10 at 40C)	0.20 U.20 U.20 U.20 U.20 U.20 U.20 U.20
Bearing System	Dual ball	Weight: ~ 4.2 lbs.	0.10 static 0.05
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)		0.00 0 100 200 300 400 500
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m2	Airflow (CFM)

Part Number	OA254AP-11-1 *	OA254AP-22-1 *	
Nominal Voltage	115VAC	230VAC	
Voltage Range	80 ~ 130VAC	160 ~ 260VAC	
Rated Power (50/60 Hz)	31/33 W - (0.30 / 0.29 A)	31/33 W - (0.14 / 0.14 A)	
Rated Speed (50/60 Hz)	1,400 / 1,650	1,400 / 1,650	
Airflow - CFM (50/60 Hz)	460 / 547	460 / 547	
Noise Level - dB (50/60 Hz)	52 / 55	52 / 55	
Max. Static Pressure (50/60 Hz)	0.32" / 0.39" H ₂ O	0.32" / 0.39" H ₂ O	

* Indicate "TB" for terminal type or "WB" for Wire leads (300mm)



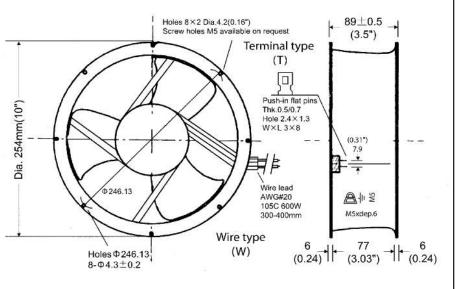


OA254 'XC Series'



AC Fan - 115V, 230V High Performance 254 x 89mm (10.0" x 3.5")





Frame	Diecast Aluminum	Operating Temperature	0.9
Impeller	PBT, UL94V-0 plastic	Ball Bearing -20C ~ +80C Storage Temp	0.8
Connection	2x Lead Wires or Terminals	-40C ~ +80C	0.6 0.6
Motor	Capacitor drive, thermally protected	Life Expectancy Ball Bearing 60,000 hours (L10 at 40C)	0.5 0.4
Bearing System	Dual ball		
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	Weight: ~ 5.4 lbs.	
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m0	0 0 100 200 300 400 500 600 700 800 900 AIRFLOW-(CFM @ 0.075 lbs/cu ft air density)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure (``H ₂ O)
OA254AN-11-1 * XC	2,700	850	69	115	80~130	75	0.78
OA254AN-11-1 *	2,200	700	65	115	80~130	70	0.53
OA254AN-11-2 *	2,000	600	55	115	80~130	45	0.45
OA254AN-11-3 *	1100	320	48	115	80~130	32	0.14
OA254AN-22-1 * XC	2,700	850	69	230	160~260	75	0.78
OA254AN-22-1 *	2,200	700	65	230	160~260	70	0.53
OA254AN-22-2 *	2,000	600	55	230	160~260	45	0.45
OA254AN-22-3 *	1100	320	48	230	160~260	32	0.14

* Indicate "TB" for terminal type or "WB" for Wire leads (300mm)



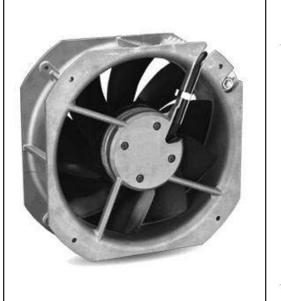


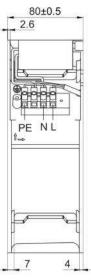


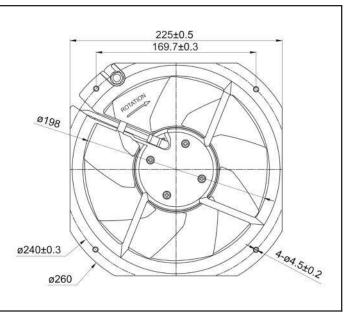
OA225 Series



AC Fan - 115V, 230V 225 x 80mm (8.86" x 3.15")







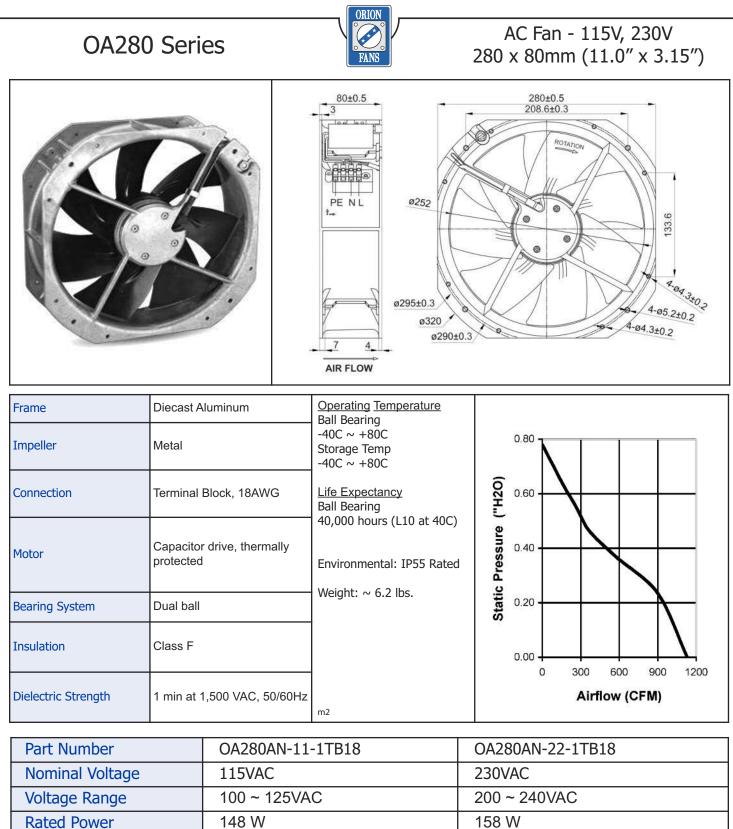
Frame	Diecast Aluminum		50Hz 6QHz
Impeller	Metal	<u>Operating Temperature</u> Ball Bearing -40C ~ +80C	0.70
Connection	Terminal Block, 18AWG	Storage Temp -40C ~ +80C	0.50 0.50
Motor	Capacitor drive, thermally protected	Life Expectancy Ball Bearing 40,000 hours (L10 at 40C)	
Bearing System	Dual ball	Environmental: IP55 Rated	
Insulation	Class F	Weight: ~ 4.7 lbs.	
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m2	0 100 200 300 400 500 600 Airflow (CFM)

Part Number	OA225AN-11-1TB18	OA225AN-22-1TB18	
Nominal Voltage	115VAC	230VAC	
Voltage Range	100 ~ 125VAC	200 ~ 240VAC	
Rated Power	65 / 72 W	74 / 80 W	
Nominal Current	0.58 / 0.70 A	0.29 / 0.35 A	
Rated Speed (RPM) 50/60Hz	2,550 / 2,800	2,550 / 2,800	
Airflow (CFM) 50/60Hz	530 / 600	530 / 600	
Noise Level (dB) 50/60HZ	59 / 61	59 / 61	
Max. Static Pressure 50/60Hz	0.67" / 0.55" H ₂ O	0.67" / 0.55" H ₂ O	

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Voltage Range	100 123740	200 240 VAC
Rated Power	148 W	158 W
Nominal Current	1.5 A	0.82 A
Rated Speed (RPM)	2,700	2,700
Airflow (CFM)	1,130	1,130
Noise Level (dB)	70	70
Max. Static Pressure	0.78" H ₂ O	0.78" H ₂ O

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Dual Voltage Fans



115/230 Volts AC 80mm - 120mm (3.15" - 4.7")

Model Number 80 x 25	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure (``H ₂ O)
OA825AP-11/22-1WB	3,000	25	28	115/230	100-120 / 200-240	9	.21
OA825AP-11/22-2WB	2,300	18	24	115/230	100-120 / 200-240	6	.14
OA825AP-11/22-3WB	1,900	16	19	115/230	100-120 / 200-240	4	.11

Model Number 80 x 38	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure (``H ₂ O)
OA80AP-11/22-1WB	3,000	31	29	115/230	100-120 / 200-240	12	0.24
OA80AP-11/22-2WB	2,300	23	22	115/230	100-120 / 200-240	9	0.15
OA80AP-11/22-3WB	1,600	17	18	115/230	100-120 / 200-240	5	0.10

Model Number 92 x 25	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure (``H ₂ O)
OA92AP-11/22-1WB	3,000	35	30	115/230	100-120 / 200-240	13	.20
OA92AP-11/22-2WB	2,300	27	22	115/230	100-120 / 200-240	10	.14
OA92AP-11/22-3WB	1,900	22	19	115/230	100-120 / 200-240	6	.09

	Model Number 92 x 38	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure ("H ₂ O)
OA938AP-	·11/22-1WB	3,100	50	32	115/230	100-120 / 200-240	9	.22
OA938AP-	·11/22-2WB	2,400	39	23	115/230	100-120 / 200-240	5	.17
OA938AP-	OA938AP-11/22-3WB		26	19	115/230	100-120 / 200-240	3	.10

Model Number 120 x 25	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure (``H ₂ O)
OA125AP-11/22-1WB	2,900	81	32	115/230	100-120 / 200-240	13	.23
OA125AP-11/22-2WB	2,300	60	27	115/230	100-120 / 200-240	10	.18
OA125AP-11/22-3WB	1,600	42	22	115/230	100-120 / 200-240	6	.12

Model Number 120 x 38	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure (``H ₂ O)
OA109AP-11/22-1WB	3,000	110	42	115/230	100-120 / 200-240	15	.28
OA109AP-11/22-2WB	2,300	71	35	115/230	100-120 / 200-240	11	.24
OA109AP-11/22-3WB	1,600	51	25	115/230	100-120 / 200-240	8	.15

30

Dual voltage fans are connected via 4 power leads. They can be configured for switchable operation.

BLUE	2000	BLUE	
BLACH		BLACK	
RED	115VAC	RED	230VAC
YELLO		YELLOW	



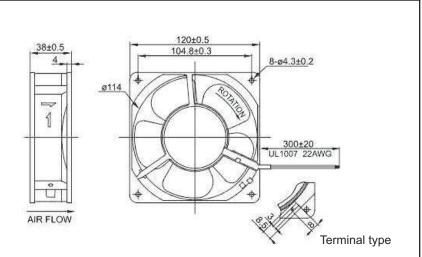


OA109AP-IP55



AC Fan - 115V,230V 120 x 38mm (4.7"x1.5")





Frame	Diecast Aluminum	Operating Temperature -20C ~ +70C	0.35
Impeller	PBT, UL94V-O plastic	Life Expectancy >40,000 hours (L10, 40C)	
Connection	Terminals	Rated IP55	0.25 0.20
Motor	AC shaded pole, impedance	Class B Insulation	8 0.15
Bearing System	Dual ball	Weight: ~ 1.05 lbs.	
Insulation Resistance	>100M ohm between lead- wire and frame		ο ^ο 0.05
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m2	0 20 40 60 80 100 120 Airflow (CFM)

Model Number	OA109AP-11-1TBIP55	OA109AP-22-1TBIP55
Part Number	210315302	210615302
Nominal Voltage	115 VAC	230 VAC
Nominal Current	0.16A	.08A
Rated Power	12 W (60Hz)	15 W (60Hz)
Rated Speed (RPM)	3,100	3,100
Airflow (CFM)	106	106
Noise Level (dB)	46	46
Max. Static Pressure	0.32″ H ₂ O	0.32″ H ₂ O



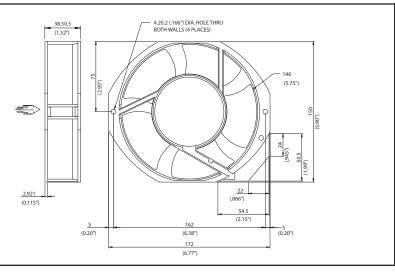


OA172SAPL IP55 Series



172 x 150 x 38mm (6.7"x 5.9"x 1.5")





Frame	Diecast Aluminum	Operating Temperature	
Impeller	PBT, UL94V-0 plastic	Ball Bearing -20C ~ +80C Storage Temp	
Connection	2x Lead Wires or Terminals	-40C ~ +80C Life Expectancy Ball Bearing 60,000 hours (L10 at 40C)	
Motor	Capacitor drive, thermally protected		SE 0.40
Bearing System	Dual ball	Environmental Protection: IP55	₿ 0.20 0.10
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	Weight: ~ 1.6 lbs.	0.00 40 80 120 160 200 240
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m2	Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure (``H ₂ O)
OA172SAPL-11-1 *IP55	3,400	228	58	115	103~126	28	0.87
OA172SAPL-11-2 *IP55	2,750	162	50	115	103~126	27	0.35
OA172SAPL-11-3 *IP55	1,700	103	44	115	103~126	26	0.26
OA172SAPL-22-1 *IP55	3,400	228	58	230	160~260	28	0.87
OA172SAPL-22-3 *IP55	1,700	103	44	230	160~260	26	0.26



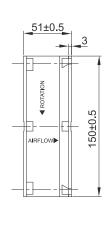


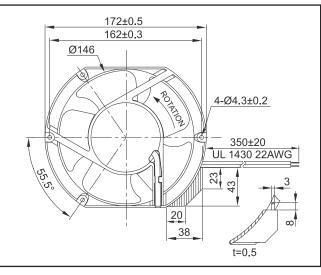
OA172SAP Series - IP55



AC Fan - 115V, 230V 172x150x51mm (6.7"x 5.9"x 2.0")







Frame	Diecast Aluminum	Operating Temperature -20C ~ +70C	0.8 → 60Hz → 50Hz
Impeller	PBT, UL94V-O plastic	Life Expectancy	0.7
Connection	Terminals	Ball Bearing 40,000 hours (L10 at 40C)	0.6
Motor	AC Capacitor, Thermally pro- tected, Class B insulation	Rated IP55 Class B insulation	
Bearing System	Dual ball bearing	Weight: ~ 2.6 lbs.	0.2
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)		0.1
Dielectric Strength	1,500V / 1 min	m4	0 25 50 75 100 125 150 175 200 225 CFM

Model Number	OA172SAP-11-1TBIP55	OA172SAP-22-1TBIP55
Part Number	230315302	230615302
Nominal Voltage	115 VAC	230 VAC
Voltage Range	103 ~ 126 VAC	207 ~ 253 VAC
Rated Current	0.25 A	0.12 A
Locked Current	0.43 A	0.19A
Rated Power	31 W	29 W
Rated Speed (RPM)	3,400	3,400
Airflow - CFM	226	226
Noise Level - (dB)	58	58
Max. Static Pressure	0.79″ Н ₂ О	0.79″ Н ₂ О

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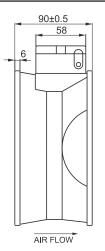


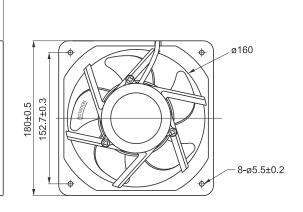
OA180AP-22-1TB IP55



AC Fan - 230V 180 x 90mm (7.1" x 3.5")







Frame	Diecast Aluminum	Operating Temperature -20C ~ +80C	- * 60Hz →50Hz
Impeller	PBT, UL94V-O plastic	Life Expectancy	1.0 0.9
Connection	Terminals	Ball Bearing 60,000 hours (L10 at 40C)	0.8
Motor	AC Capacitor, Impedenca and thermally protected	Rated IP55 Class B insulation	Q 0.6 <u>H</u> 0.5
Bearing System	Dual ball bearing	Weight: ~ 4.0 lbs.	0.4
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)		0.2 0.1 0.0
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m2	0 50 100 150 200 250 300 350 400 450 CFM

Model Number	OA180AP-22-1TB-IP55
Part Number	218615302
Nominal Voltage	230
Voltage Range	120 ~ 260 VAC
Rated Current	0.32 A (1.01 A locked)
Rated Power	72 W
Rated Speed (RPM)	3,400
Airflow - CFM	460
Noise Level - (dB)	59
Max. Static Pressure	1.1″ H ₂ O

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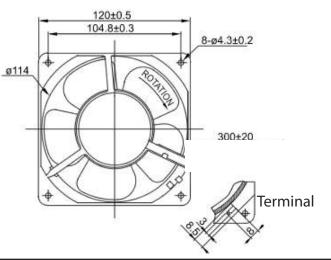
OA109 Series - Salt Fog



AC Fan - 115V, 230V 120 x 38mm (4.7" x 1.5")







Frame	Diecast Aluminum	Faction and a backs atting	0.35
Impeller	PBT, UL94V-0 plastic	Environmental Protection SALT FOG RATED (SF)	0.30
Connection	Terminals	<u>Operating Temperature</u> -20C ~ +70C Storage Temp	
Motor	AC shaded pole, impedance protected	-30C ~ +80C <u>Life Expectancy</u> >40,000 hours (L10, 40C)	0.25 0.20 0.20 0.20 0.20 0.20 0.20 0.20
Bearing System	Dual Ball	Weight: ~ 1.14 lbs	
Insulation Resistance	>100M ohm between leadwire and frame (500VDC)	in gran firm by	0.00 0.05
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m2	0 20 40 60 80 100 120 Airflow (CFM)

Model Number	OA109AP-11-1TBSF	OA109AP-22-1TBSF
Part Number	210315562	210615562
Nominal Voltage	115 VAC	230 VAC
Nominal Current	0.16 A	0.08 A
Rated Power	12 W (60Hz)	15 W (60Hz)
Rated Speed (RPM)	3,100	3,100
Airflow (CFM)	106	106
Noise Level (dB)	46	46
Max. Static Pressure	0.32" H ₂ O	0.32" H ₂ O



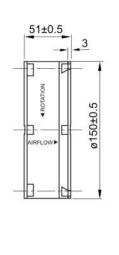


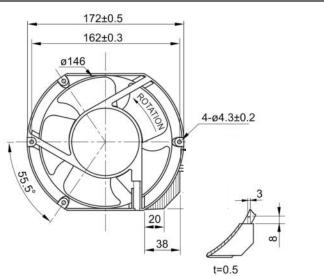
OA172S Series - Salt Fog



AC Fan - 115V, 230V 172 x 150 x 51mm (6.7"x 5.9"x 2")







Frame	Diecast Aluminum	Environmental Protection	0.80
Impeller	PBT, UL94V-0 plastic	SALT FOG RATED	§ 0.60 ↓
Connection	Terminals	Operating Temperature -20C ~ +70C	0.60 0.40
Motor	AC Capacitor drive, Thermally protected	Storage Temp -30C ~ +80C	Static Lice
Bearing System	Dual ball bearing	Life Expectancy	5 ⁶ N
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	>40,000 hours (L10, 40C) Weight: ~ 1.9 lbs	0.00 + + + A 0 50 100 150 200 250 Airflow (CFM)
Dielectric Strength	1 min at 1,500 VAC,50/60 Hz	5	

Model Number	OA172SAP-11-1TBSF	OA172SAP-22-1TBSF
Part Number	230315562	230615562
Nominal Voltage	115 VAC	230 VAC
Voltage Range	103 ~ 126 VAC	207 ~ 253 VAC
Rated Current	0.25 A	0.12 A
Locked Current	0.43 A	0.19 A
Rated Power	31 W	29 W
Rated Speed (RPM)	3,400	3,400
Airflow (CFM)	226	226
Noise Level (dB)	58	58
Max. Static Pressure (" H ₂ O)	0.79	0.79

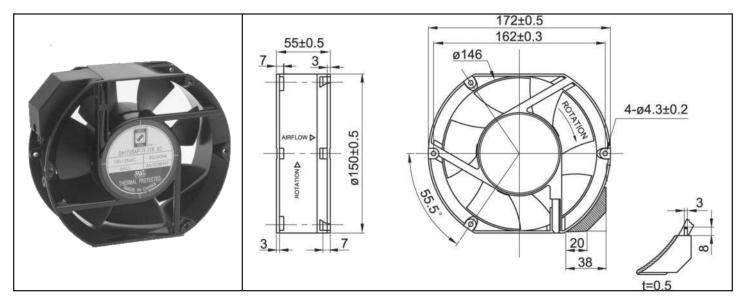




OA172 XC Series - Salt Fog



AC Fan - 115V, 230V 172 x 150 x 55mm (6.7"x 5.9"x 2.2")



Frame	Diecast Aluminum	Environmental Protection SALT FOG RATED	1.00
Impeller	PBT, UL94V-0 plastic		
Connection	Terminals	<u>Operating Temperature</u> -20C ~ +70C Storage Temp	
Motor	AC Capacitor drive, Thermally protected	-30C ~ +80C	0.40 USE 0.20
Bearing System	Dual ball bearing	Life Expectancy	B20.20
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	>40,000 hours (L10, 40C)	0.00 75 150 225 300
Dielectric Strength	1 min at 1,500 VAC,50/60 Hz	Weight: ~ 2.4 lbs	Airflow (CFM)

Model Number	OA172SAP-11-1TBXCSF	OA172SAP-22-1TBXCSF
Part Number	230385562	230685562
Nominal Voltage	115 VAC	230 VAC
Voltage Range	103 ~ 126 VAC	207 ~ 253 VAC
Rated Current	0.34 A	0.17 A
Locked Current	0.76 A	0.38 A
Rated Power	38 W	38 W
Rated Speed (RPM)	3,400	3,400
Airflow (CFM)	293	293
Noise Level (dB)	60	60
Max. Static Pressure (" H ₂ O)	0.90	0.90



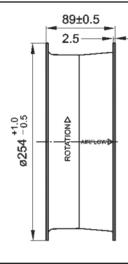


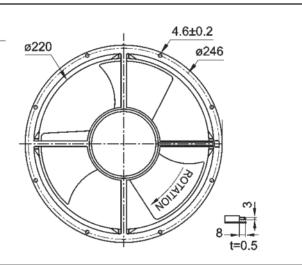
OA254 Series - Salt Fog



AC Fan - 115V, 230V 254 x 89mm (10.0" x 3.5")







Frame	Diecast Aluminum	Environmental Dretection							
Impeller	PBT, UL94V-0 plastic	Environmental Protection SALT FOG RATED (SF)	0	0.40					
Connection	Terminals	<u>Operating Temperature</u> Ball Bearing -20C ~ +80C	("H2O).30 —).25 —	\setminus				
Motor	Capacitor drive, thermally protected	Storage Temp -30C ~ +80C Life Expectancy	Pressur 0 0	0.20 — 0.15 — 0.10 —					
Bearing System	Dual ball	Ball Bearing 60,000 hours (L10 at 40C)	ta	0.05 —	_	_	_		
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	Weight: ~ 4.3 lbs	C	00.00 0	100	200	 300 4	100 50	00 600
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m2				Airflo	w (CFI	M)	

Model Number	OA254AP-11-1TBSF	OA254AP-22-1TBSF	
Part Number	254315562	254615562	
Nominal Voltage	115VAC	230VAC	
Current (Amps)	0.29 A (0.51 locked)	0.14 A (0.25 locked)	
Rated Power	33 W	33 W	
Rated Speed	1,650	1,650	
Airflow - CFM	550	550	
Noise Level - dB	55	55	
Max. Static Pressure	0.40" H ₂ O	0.40" H ₂ O	

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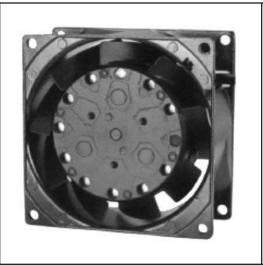


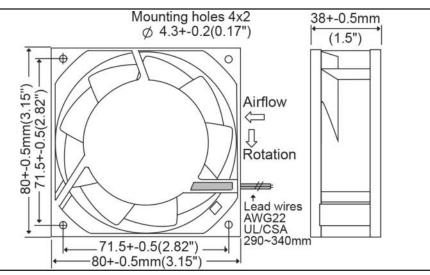


OA80 Series - All Metal



AC Fan - 115V, 230V 80 x 38mm (3.15" x 1.5")





Frame	Diecast Aluminum		
Impeller	Metal Alloy	<u>Operating Temperature</u> Ball Bearing -30C ~ +80C	(w.g) mm inch 0.18
Connection	2x Lead Wires 22 AWG or terminals	(non-condensing) Storage Temp -40C ~ +100C	- 4 - 60Hz
Motor	Shaded pole, impedance protected	<u>Life Expectancy</u> Ball Bearing 50,000 hours (L10 at 55C)	0.15 3 0.12 2 0.09 0.06 0.06 0.00 0
Bearing System	Dual ball bearing	Environmental Protection	U.03
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	IP55 Weight: ~ 0.95 lbs	P Q 0 5 10 15 20 25 30 35 cfm ▲ 0 0,2 0,4 0,6 0,8 1.0 m3/ AIR FLOW
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m0	AIR FLOW

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure (``H ₂ O)	Curves
OA80AP-11-1 * 1855	2,750 3,200	28 33	35	115	100~120	15 13	0.22	2 (50Hz) 1 (60Hz)
OA80AP-11-2 * 1855	2,200 2,500	23 26	30	115	100~120	12 10	0.16	4 (50Hz) 3 (60Hz)
OA80AP-11-3 * 1855	1,700 1,900	18 21	23	115	100~120	8 6	0.07	6 (50Hz) 5 (60Hz)
OA80AP-22-1 * 1855	2,750 3,200	28 33	35	230	200~240	15 13	0.22	2 (50Hz) 1 (60Hz)
OA80AP-22-2 * 1855	2,200 2,500	23 26	30	230	200~240	12 10	0.16	4 (50Hz) 3 (60Hz)
OA80AP-22-3 * 1855	1,700 1,900	18 21	23	230	200~240	8 6	0.07	6 (50Hz) 5 (60Hz)



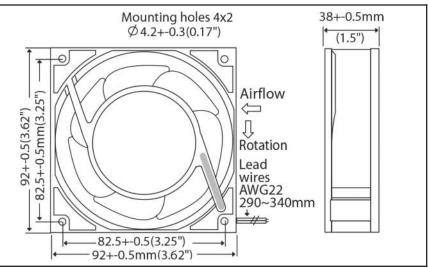


OA938 Series - All Metal



AC Fan - 115V, 230V 92 x 38mm (3.62" x 1.5")





Frame	Diecast Aluminum		
Impeller	Metal Alloy	<u>Operating Temperature</u> Ball Bearing -30C ~ +80C	(w.g) mm inch ├ ⁶ 0.24
Connection	2x Lead Wires 22 AWG or terminals	(non-condensing) Storage Temp -40C ~ +100C	O − 60Hz
Motor	Shaded pole, impedance protected	<u>Life Expectancy</u> Ball Bearing 50,000 hours (L10 at 55C)	2 0.08
Bearing System	Dual ball bearing	Environmental Protection	UTATION OF THE OWNER OWNER OF THE OWNER
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	IP55 Weight: ~ 1.1 lbs	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m0	AIR FLOW

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure (``H ₂ O)	Curves
OA938AP-11-1 * 1855	2,700 3,150	45 55	40	115	100~120	17 15	0.17 0.22	2 (50Hz) 1 (60Hz)
OA938AP-11-2 * 1855	2,350 2,600	36 42	33	115	100~120	13 11	0.14 0.16	4 (50Hz) 3 (60Hz)
OA938AP-11-3 * 1855	1,950 1,850	29 27	23	115	100~120	9 7	0.12 0.11	6 (50Hz) 5 (60Hz)
OA938AP-22-1 * 1855	2,700 3,150	45 55	40	230	200~240	17 15	0.17 0.22	2 (50Hz) 1 (60Hz)
OA938AP-22-2 * 1855	2,350 2,600	36 42	33	230	200~240	13 11	0.14 0.16	4 (50Hz) 3 (60Hz)
OA938AP-22-3 * 1855	1,950 1,850	29 27	23	230	200~240	9 7	0.12 0.11	6 (50Hz) 5 (60Hz)



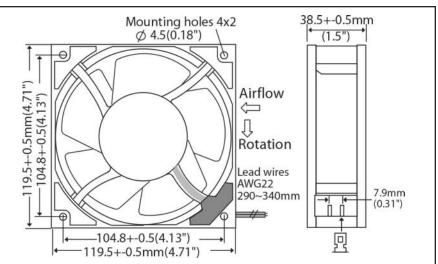


OA109 Series - All Metal



AC Fan - 115V, 230V 120 x 38mm (4.7" x 1.5")





Frame	Diecast Aluminum		
Impeller	Metal Alloy	<u>Operating Temperature</u> Ball Bearing -30C ~ +80C	(w.g) mm inch -6 0.25
Connection	2x Lead Wires 22 AWG or terminals	(non-condensing) Storage Temp -40C ~ +100C	0 -5 0.20 -5 0.20
Motor	Shaded pole, impedance protected	<u>Life Expectancy</u> Ball Bearing 50,000 hours (L10 at 55C)	0.20 0.20 0.10 0.00
Bearing System	Dual ball bearing	Environmental Protection	Es - 1 0.05
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	IP55 Weight: ~ 1.3 lbs	P Q 0 20 40 60 80 100 120 cfm ▲ ▶ 0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 m³/
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m0	AIR FLOW

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure (``H ₂ O)	Curves
OA109AP-11-1 * 1855	2,650 3,100	90 105	48	115	100~120	21 10	0.25 0.22	2 (50Hz) 1 (60Hz)
OA109AP-11-2 * 1855	2,400 2,500	82 85	43	115	100~120	14 13	0.17 0.12	4 (50Hz) 3 (60Hz)
OA109AP-11-3 * 1855	1,700 1,800	58 60	32	115	100~120	12 9	0.11 0.09	6 (50Hz) 5 (60Hz)
OA109AP-22-1 * 1855	2,650 3,100	90 105	48	230	200~240	21 10	0.25 0.22	2 (50Hz) 1 (60Hz)
OA109AP-22-2 * 1855	2,400 2,500	82 85	43	230	200~240	14 13	0.17 0.12	4 (50Hz) 3 (60Hz)
OA109AP-22-3 * 1855	1,700 1,800	58 60	32	230	200~240	12 9	0.11 0.09	6 (50Hz) 5 (60Hz)



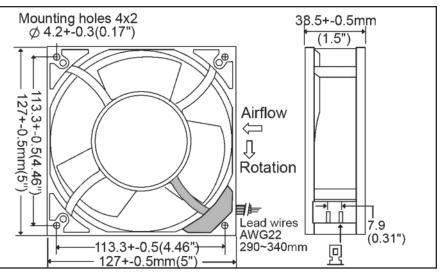


OA119 Series - All Metal



AC Fan - 115V, 230V 127 x 38mm (5.0" x 1.5")





Frame	Diecast Aluminum		
Impeller	Metal Alloy	<u>Operating Temperature</u> Ball Bearing -30C ~ +80C	(w.g) mm inch -7 0.30
Connection	2x Lead Wires 22 AWG or terminals	(non-condensing) Storage Temp -40C ~ +100C	0 0 0 0 0 0 0 0 0 0 0 0 0 0
Motor	Shaded pole, impedance protected	<u>Life Expectancy</u> Ball Bearing 50,000 hours (L10 at 55C)	HIN S 0.20 0 HIN S 0.15 HIN S 0.10 - 2 - 0.05
Bearing System	Dual ball bearing	Environmental Protection IP55	
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	Weight: ~ 1.4 lbs	P Q 0 20 40 60 80 100 120 140 cfm ▲ ↓ 0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 m ₃ /
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m0	AIR FLOW

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure (``H ₂ O)	Curves
OA119AP-11-1 * 1855	2,600 2,950	110 128	48	115	100~120	29 26	0.27 0.29	2 (50Hz) 1 (60Hz)
OA119AP-11-2 * 1855	2,300 2,400	95 105	42	115	100~120	23 20	0.23 0.25	4 (50Hz) 3 (60Hz)
OA119AP-11-3 * 1855	1,600 1,500	68 65	28	115	100~120	18 15	0.18 0.16	6 (50Hz) 5 (60Hz)
OA119AP-22-1 * 1855	2,600 2,950	110 128	48	230	200~240	29 26	0.27 0.29	2 (50Hz) 1 (60Hz)
OA119AP-22-2 * 1855	2,300 2,400	95 105	42	230	200~240	23 20	0.23 0.25	4 (50Hz) 3 (60Hz)
OA119AP-22-3 * 1855	1,600 1,500	68 65	28	230	200~240	18 15	0.18 0.16	6 (50Hz) 5 (60Hz)



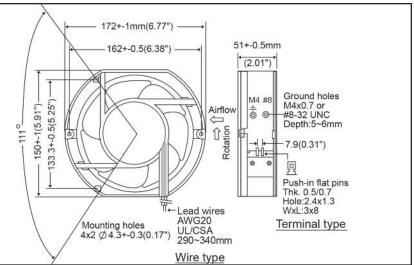


OA172S Series - All Metal



AC Fan - 115V, 230V 172 x 150 x 51mm (6.7"x 5.9"x2.0")





Frame	Diecast Aluminum		
Impeller	Metal Alloy	<u>Operating Temperature</u> Ball Bearing -30C ~ +80C	(w.g) mm inch _14 0.6 50Hz
Connection	2x Lead Wires 20 AWG or terminals	(non-condensing) Storage Temp -40C ~ +100C	0 12 0.5 10 0.4 0 0 0 0 0 0 0 0 0 0 0 0 0
Motor	Shaded pole, thermally protected	<u>Life Expectancy</u> Ball Bearing 50,000 hours (L10 at 55C)	2.0 12 12 12 12 12 12 12 12 12 12 12 12 12
Bearing System	Dual ball bearing	Environmental Protection IP55	45 2 0.1
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	Weight: ~ 2.65 lbs	L ₀ 0 50 100 150 200 250 cfm ▲ ▶ 0 1 2 3 4 5 6 7 m ³ / _M
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m0	AIR FLOW

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure (``H ₂ O)	Curves
OA172SAP-11-1 * 1855	2,750 3,100	185 210	58	115	100~120	47 42	0.55 0.49	2 (50Hz) 1 (60Hz)
OA172SAP-11-2 * 1855	2,300 2,400	150 160	48	115	100~120	35 32	0.45 0.38	4 (50Hz) 3 (60Hz)
OA172SAP-11-3 * 1855	1,500 1,600	95 105	35	115	100~120	23 20	0.32 0.26	6 (50Hz) 5 (60Hz)
OA172SAP-22-1 * 1855	2,750 3,100	185 210	58	230	200~240	47 42	0.55 0.49	2 (50Hz) 1 (60Hz)
OA172SAP-22-2 * 1855	2,300 2,400	150 160	48	230	200~240	35 32	0.45 0.38	4 (50Hz) 3 (60Hz)
OA172SAP-22-3 * 1855	1,500 1,600	95 105	35	230	200~240	23 20	0.32 0.26	6 (50Hz) 5 (60Hz)



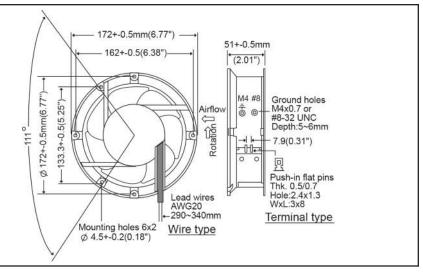


OA172 Series - All Metal



AC Fan - 115V, 230V 172 x 51mm (6.7" x 2.0")





Frame	Diecast Aluminum	On anothing Tanana and an	
Impeller	Metal Alloy	<u>Operating Temperature</u> Ball Bearing -30C ~ +80C	(w.g) mm inch -14 0.6
Connection	2x Lead Wires 22 AWG or terminals	(non-condensing) Storage Temp -40C ~ +100C	유 - 12 0.5 - 60Hz
Motor	Shaded pole, thermally protected	<u>Life Expectancy</u> Ball Bearing 50,000 hours (L10 at 55C)	BILIC DECEMBENDED
Bearing System	Dual ball bearing	Environmental Protection IP55	
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	Weight: ~ 2.98 lbs	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m0	AIR FLOW

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure ("H ₂ O)	Curves
OA172AP-11-1 * 1855	2,750 3,200	190 215	59	115	100~120	47 42	0.57 0.51	2 (50Hz) 1 (60Hz)
OA172AP-11-2 * 1855	2,350 2,300	162 155	48	115	100~120	35 32	0.46 0.37	4 (50Hz) 3 (60Hz)
OA172AP-11-3 * 1855	1,500 1,600	105 110	36	115	100~120	23 20	0.33 0.27	6 (50Hz) 5 (60Hz)
OA172AP-22-1 * 1855	2,750 3,200	190 215	59	230	200~240	47 42	0.57 0.51	2 (50Hz) 1 (60Hz)
OA172AP-22-2 * 1855	2,350 2,300	162 155	48	230	200~240	35 32	0.46 0.37	4 (50Hz) 3 (60Hz)
OA172AP-22-3 * 1855	1,500 1,600	105 110	36	230	200~240	23 20	0.33 0.27	6 (50Hz) 5 (60Hz)



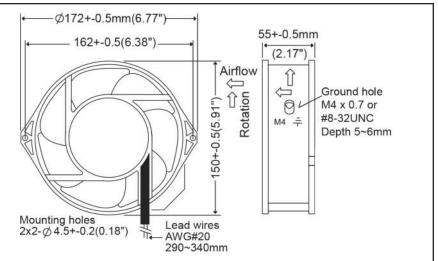


OA162 Series - All Metal



AC Fan - 115V, 230V 172 x 55mm (6.7" x 2.17")





Frame	Diecast Aluminum	Operating Temperature Ball Bearing	
Impeller	Metal Alloy	$-30C \sim +80C$ (non-condensing)	(w.g) mm inch -12 ^{0.5}
Connection	2x Lead Wires 20 AWG	Storage Temp -40C ~ +100C	Q -10 0.4 0 - 60Hz
Motor	Shaded pole, thermally protected	Life Expectancy Ball Bearing 50,000 hours (L10 at 55C) Environmental Protection	BUILD BE O.3 CONTRACTOR OF CONTRACTOR OF CO
Bearing System	Dual ball bearing	IP55	E 2 0.1
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	Weight: ~ 2.7 lbs	Q 0 50 100 150 200 250 cfm
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m0	AIR FLOW

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure ("H ₂ O)	Curves
OA162AP-11-1WB 1855	2,750 3,200	183 210	54	115	100~120	47 42	0.49 0.42	2 (50Hz) 1 (60Hz)
OA162AP-11-2WB 1855	2,400 2,500	160 165	46	115	100~120	35 32	0.42 0.35	4 (50Hz) 3 (60Hz)
OA162AP-11-3WB 1855	1,500 1,600	100 110	35	115	100~120	23 20	0.28 0.22	6 (50Hz) 5 (60Hz)
OA162AP-22-1WB 1855	2,750 3,200	183 210	54	230	200~240	47 42	0.49 0.42	2 (50Hz) 1 (60Hz)
OA162AP-22-2WB 1855	2,400 2,500	160 165	46	230	200~240	35 32	0.42 0.35	4 (50Hz) 3 (60Hz)
OA162AP-22-3WB 1855	1,500 1,600	100 110	35	230	200~240	23 20	0.28 0.22	6 (50Hz) 5 (60Hz)



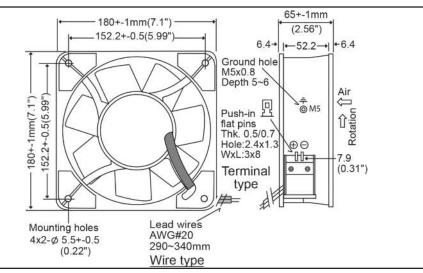


OA180ANL Series - All Metal



AC Fan - 115V, 230V 180 x 65mm (7.1" x 2.6")





Frame	Diecast Aluminum		
Impeller	Metal Alloy	<u>Operating Temperature</u> Ball Bearing -30C ~ +80C	(w.g) SINWAN M180FAN mm inch
Connection	2x Lead Wires 20 AWG or terminals	(non-condensing) Storage Temp -40C ~ +100C	Q + 0.6
Motor	Shaded pole, thermally protected	<u>Life Expectancy</u> Ball Bearing 50,000 hours (L10 at 55C)	10 0.4 10 0.4 5 0.2
Bearing System	Dual ball bearing	Environmental Protection IP56	5 0.2
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	Weight: ~ 3.75 lbs	0 0 100 200 300 400 cfm P 0 2 4 6 8 10 m3/min
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m0	AIR FLOW

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure ("H ₂ O)	Curves
OA180ANL-11-1 * 1856	2,750 3,250	330 400	65	115	100~120	60 80	0.60 0.80	2 (50Hz) 1 (60Hz)
OA180ANL-11-2 * 1856	2,300 2,200	275 265	53	115	100~120	55 65	0.58 0.52	4 (50Hz) 3 (60Hz)
OA180ANL-11-3 * 1856	1,500 1,600	185 200	42	115	100~120	20 30	0.38 0.32	6 (50Hz) 5 (60Hz)
OA180ANL-22-1 * 1856	2,750 3,250	330 400	65	230	200~240	60 80	0.60 0.80	2 (50Hz) 1 (60Hz)
OA180ANL-22-2 * 1856	2,300 2,200	275 265	53	230	200~240	55 65	0.58 0.52	4 (50Hz) 3 (60Hz)
OA180ANL-22-3 * 1856	1,500 1,600	185 200	42	230	200~240	20 30	0.38 0.32	6 (50Hz) 5 (60Hz)



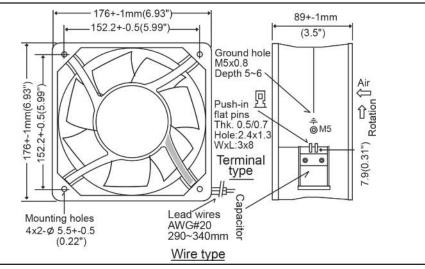


OA180AN Series - All Metal



AC Fan - 115V, 230V 176 x 89mm (6.9" x 3.5")





Frame	Diecast Aluminum	On anothing Tanana and an	
Impeller	Metal Alloy	<u>Operating Temperature</u> Ball Bearing -30C ~ +80C	(w.g) mm inch + 20 ^{0.8}
Connection	2x Lead Wires 20 AWG or terminals	(non-condensing) Storage Temp -40C ~ +100C	인 ···· 50Hz - 60Hz
Motor	AC Capacitor Inductance, thermally protected	<u>Life Expectancy</u> Ball Bearing 50,000 hours (L10 at 55C)	10 0.4 5 0.2
Bearing System	Dual ball bearing	Environmental Protection IP56	5 0.2
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	Weight: ~ 4.1 lbs	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m0	AIR FLOW

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure ("H ₂ O)	Curves
OA180AN-11-1 * 1856	2,750 3,250	330 380	63	115	100~120	45 50	0.69 0.76	2 (50Hz) 1 (60Hz)
OA180AN-11-2 * 1856	2,350 2,250	285 275	52	115	100~120	30 35	0.59 0.53	4 (50Hz) 3 (60Hz)
OA180AN-11-3 * 1856	1,450 1,650	175 210	41	115	100~120	21 23	0.36 0.39	6 (50Hz) 5 (60Hz)
OA180AN-22-1 * 1856	2,750 3,250	330 380	63	230	200~240	45 50	0.69 0.76	2 (50Hz) 1 (60Hz)
OA180AN-22-2 * 1856	2,350 2,250	285 275	52	230	200~240	30 35	0.59 0.53	4 (50Hz) 3 (60Hz)
OA180AN-22-3 * 1856	1,450 1,650	175 210	41	230	200~240	21 23	0.36 0.39	6 (50Hz) 5 (60Hz)



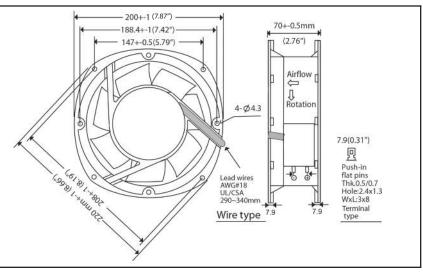


OA200AN Series - All Metal



AC Fan - 115V, 230V 200 x 70mm (7.8" x 2.8")





Frame	Diecast Aluminum	Operating Temperature			
Impeller	Metal Alloy	Ball Bearing -30C ~ +80C (non-condensing)	(w.g) mm inch		
Connection	2x Lead Wires 18 AWG or terminals	Storage Temp -40C ~ +100C	0 0 1 20 0.8 20 0.8 20 0.8		
Motor	AC Capacitor Inductance, thermally protected	<u>Life Expectancy</u> Ball Bearing 50,000 hours (L10 at 55C) Environmental Protection	HYDS - 15 0.6 - 15 0.6 - 10 0.4		
Bearing System	Dual ball bearing	IP56	STATIC STATIC		
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	Weight: ~ 4.0 lbs	Weight: ~ 4.0 lbs	Weight: ~ 4.0 lbs	0 0 100 200 300 400 500 cfm Q 0 3 6 9 12 m3/min
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m0	AIR FLOW		

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure (``H ₂ O)	Curves
OA200AN-11-1 * 1856	2,800 3,300	430 485	68	115	100~120	95 105	0.82 0.93	2 (50Hz) 1 (60Hz)
OA200AN-11-2 * 1856	2,400 2,600	365 395	54	115	100~120	80 95	0.68 0.75	4 (50Hz) 3 (60Hz)
OA200AN-11-3 * 1856	1,600 1,500	245 230	43	115	100~120	32 40	0.46 0.42	6 (50Hz) 5 (60Hz)
OA200AN-22-1 * 1856	2,800 3,300	430 485	68	230	200~240	95 105	0.82 0.93	2 (50Hz) 1 (60Hz)
OA200AN-22-2 * 1856	2,400 2,600	365 395	54	230	200~240	80 95	0.68 0.75	4 (50Hz) 3 (60Hz)
OA200AN-22-3 * 1856	1,600 1,500	245 230	43	230	200~240	32 40	0.46 0.42	6 (50Hz) 5 (60Hz)



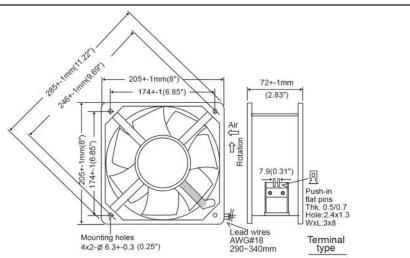


OA205AN Series - All Metal



AC Fan - 115V, 230V 205 x 72mm (8.0" x 2.8")





Frame	Diecast Aluminum	On anatin a Tana anatana	
Impeller	Metal Alloy	<u>Operating Temperature</u> Ball Bearing -30C ~ +80C	(w.g) mm inch 30 1.2
Connection	2x Lead Wires 18 AWG or terminals	(non-condensing) Storage Temp -40C ~ +100C	0 25 1.0 0 0Hz - 60Hz
Motor	AC Capacitor Inductance, thermally protected	<u>Life Expectancy</u> Ball Bearing 50,000 hours (L10 at 55C)	₩ 20 0.8 NSS 15 0.6 H 10 0.4
Bearing System	Dual ball bearing	Environmental Protection IP56	5 0.2
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	Weight: ~ 5.0 lbs	0 0 0 100 200 300 400 500 600 700 cfm P Q 0 2 4 6 8 10 12 14 16 18 20 m3/min
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m0	AIR FLOW

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure ("H ₂ O)	Curves
OA205AN-11-1 * 1856	2,800 3,200	550 650	68	115	100~120	95 105	1.05 1.08	2 (50Hz) 1 (60Hz)
OA205AN-11-2 * 1856	2,300 2,250	460 465	58	115	100~120	55 65	0.69 0.52	4 (50Hz) 3 (60Hz)
OA205AN-11-3 * 1856	1,500 1,650	310 330	48	115	100~120	32 40	0.38 0.29	6 (50Hz) 5 (60Hz)
OA205AN-22-1 * 1856	2,800 3,200	550 650	68	230	200~240	95 105	1.05 1.08	2 (50Hz) 1 (60Hz)
OA205AN-22-2 * 1856	2,300 2,250	460 465	58	230	200~240	55 65	0.69 0.52	4 (50Hz) 3 (60Hz)
OA205AN-22-3 * 1856	1,500 1,650	310 330	48	230	200~240	32 40	0.38 0.29	6 (50Hz) 5 (60Hz)



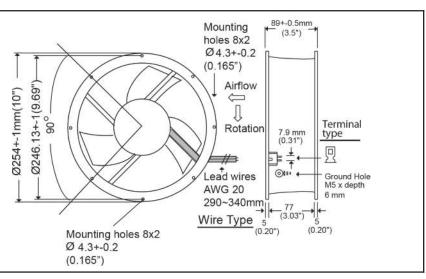


OA2543 Series - All Metal



AC Fan - 115V, 230V 254 x 89mm (10.0" x 3.5")





Frame	Diecast Aluminum	Operating Temperature	
Impeller	Metal Alloy	Ball Bearing -30C ~ +80C (non-condensing)	(w.g) mm inch ↓ 25 ^{1.0}
Connection	2x Lead Wires 20 AWG or terminals	Storage Temp -40C ~ +100C	0 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Motor	AC Capacitor Induction, thermally protected	<u>Life Expectancy</u> Ball Bearing 50,000 hours (L10 at 55C) Environmental Protection	HT 15 0.6 - 15 0.6 - 10 0.4
Bearing System	Dual ball bearing	IP56	OILAT -2 0.2
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	Weight: ~ 4.7 lbs	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m0	AIR FLOW

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure (``H ₂ O)	Curves
OA2543AN-11-1 * 1856	2,800 3,300	800 930	66	115	100~120	95 105	0.84 0.78	2 (50Hz) 1 (60Hz)
OA2543AN-11-2 * 1856	2,300 2,000	670 615	53	115	100~120	80 95	0.25 0.20	4 (50Hz) 3 (60Hz)
OA2543AN-11-3 * 1856	1,650 1,500	510 460	48	115	100~120	32 40	0.22 0.17	6 (50Hz) 5 (60Hz)
OA2543AN-22-1 * 1856	2,800 3,300	800 930	66	230	200~240	95 105	0.84 0.78	2 (50Hz) 1 (60Hz)
OA2543AN-22-2 * 1856	2,300 2,000	670 615	53	230	200~240	80 95	0.25 0.20	4 (50Hz) 3 (60Hz)
OA2543AN-22-3 * 1856	1,650 1,500	510 460	48	230	200~240	32 40	0.22 0.17	6 (50Hz) 5 (60Hz)



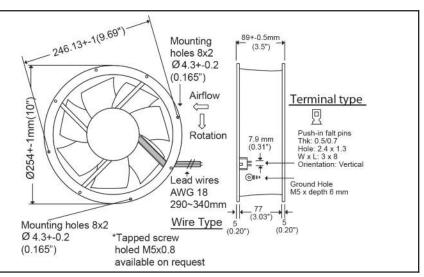


OA2547 Series - All Metal



AC Fan - 115V, 230V 254 x 89mm (10.0" x 3.5")





Frame	Diecast Aluminum	Operating Temperature	
Impeller	Metal Alloy	Ball Bearing -30C ~ +80C (non-condensing)	(w.g) mm inch L 25 ^{1.0}
Connection	2x Lead Wires 18 AWG or terminals	Storage Temp -40C ~ +100C	50H
Motor	AC Capacitor Induction, thermally protected	Life Expectancy Ball Bearing 50,000 hours (L10 at 55C) Environmental Protection	-60
Bearing System	Dual ball bearing	IP56	STATIC
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	Weight: ~ 5.9 lbs	0 0 200 400 600 800 1000 cfm 0 5 10 15 20 25 m3/min
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	m0	AIR FLOW

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Voltage Range	Watts	Max. Static Pressure (``H ₂ O)	Curves
OA2547AN-11-1 * 1856	2,800 3,250	840 1,000	70	115	100~120	95 105	0.78 0.60	2 (50Hz) 1 (60Hz)
OA2547AN-11-2 * 1856	2,300 2,200	660 620	63	115	100~120	80 95	0.33 0.27	4 (50Hz) 3 (60Hz)
OA2547AN-11-3 * 1856	1,600 1,500	560 500	46	115	100~120	32 40	0.25 0.20	6 (50Hz) 5 (60Hz)
OA2547AN-22-1 * 1856	2,800 3,250	840 1,000	70	230	200~240	95 105	0.78 0.60	2 (50Hz) 1 (60Hz)
OA2547AN-22-2 * 1856	2,300 2,200	660 620	63	230	200~240	80 95	0.33 0.27	4 (50Hz) 3 (60Hz)
OA2547AN-22-3 * 1856	1,600 1,500	560 500	46	230	200~240	32 40	0.25 0.20	6 (50Hz) 5 (60Hz)

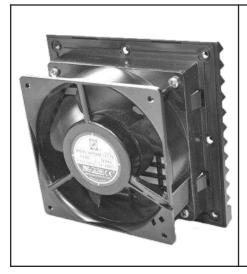


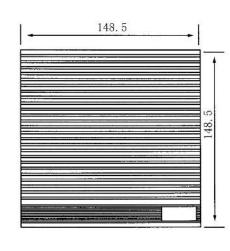


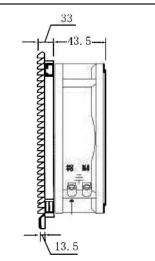
OA109LFG Series



Louvered Fan Guard Kit with Fan Installed AC Fan - 115V, 230V







Frame	Diecast Aluminum	Operating Temperature	0.35
Impeller	PBT, UL94V-0 plastic	-20C ~ +70C Storage Temp -30C ~ +80C	0.30
Connection	Terminals	Life Expectancy >40,000 hours (L10, 40C)	
Motor	AC shaded pole, impedance protected	Environmental: Class B Insulation Rated IP55 Fan Rated IP54 Guard	0.20 en 0.15 en 0.10
Bearing System	Dual Ball	Guard Frame: ABS Resin UL94V-0	
Insulation Resistance	>100M ohm between leadwire and frame (500VDC)	Color: Black (standard) or Gray Filter Mesh: Nylon fiber	ο _{0.05}
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	Synthetic Resin	0 20 40 60 80 100 120 Airflow (CFM)

Model Number	OA109LFG111T	OA109LFG221T	8- +5_
Nominal Voltage	115 VAC	230 VAC	
Nominal Current	0.16 A	0.08 A (locked 0.12 A)	
Rated Power	12 W (60Hz)	15 W (60Hz)	● 122 131 131
Rated Speed (RPM)	3,100	3,100	
Airflow (CFM)	106	106	131
Noise Level (dB)	46	46	PANEL CUTOUT
Max. Static Pressure	0.32" H ₂ O	0.32" H ₂ O	

* Note: Airflow data is for the fan without the louvered filter attached. Calculations indicate that up to a 40% reduction (~ 67 CFM) in fan airflow is possible with LFG unit installed.





OA172L	-FG Seri	es	ORION FANS		Louvered Fan Guard Kit with Fan Installed AC Fan - 115V, 230V
A MORE DATA		5mm→	→ 60mm→ NL 0000 0000 13.5m	<	204mm
Frame	Diecast Alumi	num	Operating Tempe	erature	0.80
Impeller	PBT, UL94V-0	plastic	plastic Ball Bearing -40C ~ +70C Storage Temp		
Connection	2x Lead Wires	s or Terminals	-30C ~ +80C Life Expectancy Ball Bearing		00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.
Motor	Capacitor driv protected	e, impedance	60,000 hours (L1 Environmental: Class B Insulatio Rated IP54 Guar	n d	0.00 (H10) 0.40 (H10) 0.20 02.0 02.0 02.0 02.0 02.0 02.0 02.0
Bearing System	Dual ball		Guard Frame: AE UL94V-0	3S Resin	g 0.20
Insulation Resistance	>100M ohm b wire and frame		Color: Black (sta Gray Filter Mesh: Nylc	-	
Dielectric Strength	1 min at 1,500	VAC, 50/60Hz	Synthetic Resin		0 50 100 150 200 250 Airflow (CFM)
Model Number		OA172LF	G111T	OA172I	_FG221T
Nominal Voltage 115 VAC		115 VAC		230 VA	

Model Number	OA1/2LFG1111	OA1/2LFG2211	
Nominal Voltage	115 VAC	230 VAC	8- <u>ø</u> 5mm ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
Voltage Range	80 ~ 130 VAC	160 ~ 260 VAC	비 비 비 비 비 비 비 비 비 비 비 비 비 비 비 비 비 비 비
Rated Power	35 W	35 W	
Rated Speed (RPM)	3,200	3,200	
Airflow (CFM)	235	235	92mm 184mm
Noise Level (dB)	52	52	PANEL CUTOUT
Max. Static Pressure	0.70" H ₂ O	0.70" H ₂ O	

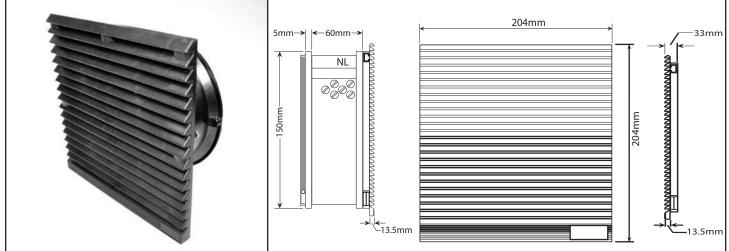
* Note: Airflow data is for the fan without the louvered filter attached. Calculations indicate that up to a 40% reduction (~ 141 CFM) in fan airflow is possible with LFG unit installed.



OA172LFG XC Series



Louvered Fan Guard Kit with Fan Installed AC Fan - 115V, 230V



Frame	Diecast Aluminum	Operating Temperature	
Impeller	PBT, UL94V-0 plastic	Ball Bearing -20C ~ +70C Storage Temp	0.80
Connection	2x Lead Wires or Terminals	-30C ~ +80C <u>Life Expectancy</u> Ball Bearing	
Motor	Capacitor drive, impedance protected	60,000 hours (L10 at 40C) Environmental: Class B Insulation Rated IP54 Guard	0.40
Bearing System	Dual ball	Guard Frame: ABS Resin UL94V-0	0.20 Static
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	Color: Black (standard) or Gray Filter Mesh: Nylon fiber	0.00 0 75 150 225 300
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	Synthetic Resin	Airflow (CFM)

Part Number	OA172LFG111TXC	OA172LFG221TXC]
Nominal Voltage	115 VAC	230 VAC	<u>8-ø5</u> mm
Voltage Range	100 ~ 125 VAC	200 ~ 240 VAC	175mm
Rated Power	50 W (60Hz)	50 W (60Hz)	+ + 175mm 184mm
Rated Speed (RPM)	3,300	3,300	
Airflow (CFM)	300	300	92mm + 184mm
Noise Level (dB)	61	61	PANEL CUTOUT
Max. Static Pressure	0.78" H ₂ O	0.78" H ₂ O	

* Note: Airflow data is for the fan without the louvered filter attached. Calculations indicate that up to a 40% reduction (~ 180 CFM) in fan airflow is possible with LFG unit installed.



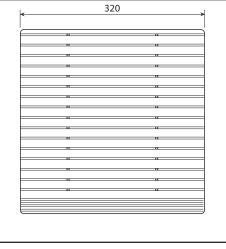


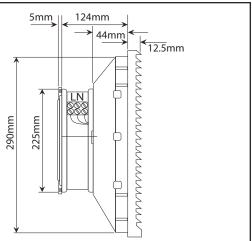
OA225LFG Series



Louvered Fan Guard Kit with Fan Installed AC Fan - 115V, 230V

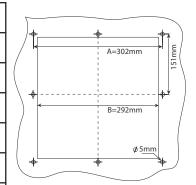






Frame	Diecast Aluminum	Operating Temperature Ball Bearing	×60Hz●50Hz
Impeller	Metal	-40C ~ +80C Storage Temp -40C ~ +100C	0.6
Connection	Terminal Block, 18AWG	Life Expectancy Ball Bearing	0.5
Motor	Capacitor drive, thermally protected	40,000 hours (L10 at 40C) Environmental: IP55 Rated Fan IP54 Rated Guard	0.4 0.3
Bearing System	Dual ball	Guard Frame: ABS Resin UL94V-0	0.2
Insulation	Class F	Color: Black (standard) or Gray (shown) Filter Mesh: Nylon fiber	0.1
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	Synthetic Resin	0 50 100 150 200 250 300 350 400 450 500 550 600 CFM

Part Number	OA225LFG111T	OA225LFG221T	
Nominal Voltage	115VAC	230VAC	
Voltage Range	100 ~ 125VAC	200 ~ 240VAC	
Rated Power	65 / 72 W	74 / 80 W	
Nominal Current	0.58 / 0.70 A	0.29 / 0.35 A	
Rated Speed (RPM) 50/60Hz	2,550 / 2,800	2,550 / 2,800	
Airflow (CFM) 50/60Hz	530 / 600	530 / 600 *	
Noise Level (dB) 50/60HZ	59 / 61	59 / 61	
Max. Static Pressure 50/60Hz	0.67" / 0.55" H ₂ O	0.67" / 0.55" H ₂ O	



PANEL CUTOUT

* Note: Airflow data is for the fan without the louvered filter attached. Calculations indicate that up to a 40% reduction (~ 318 / ~ 360 CFM) in fan airflow is possible with LFG unit installed.

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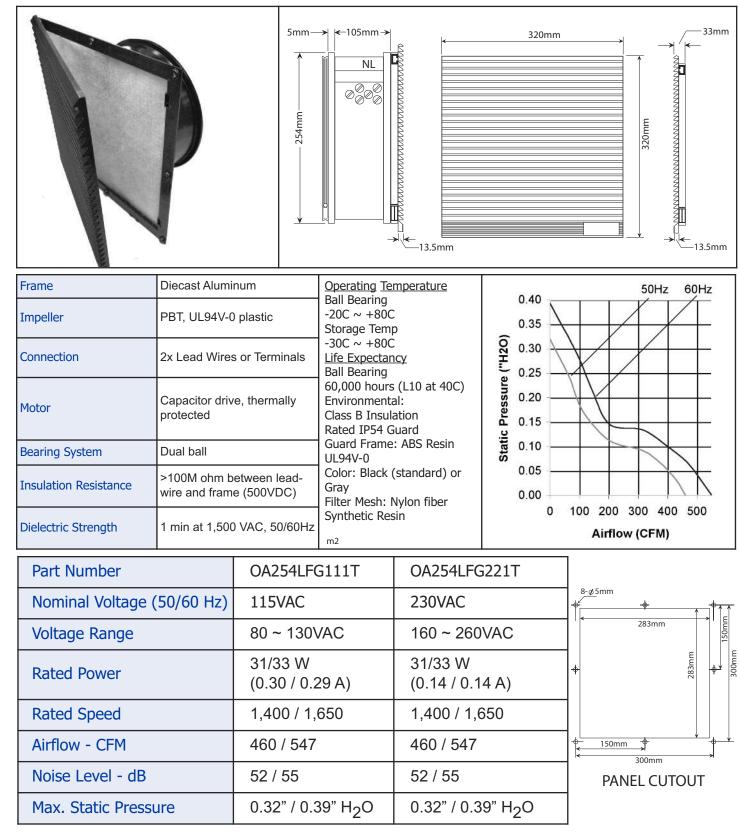




OA254LFG Series



Louvered Fan Guard Kit with Fan Installed AC Fan - 115V, 230V



* Note: Airflow data is for the fan without the louvered filter attached. Calculations indicate that up to a 40% reduction (~ 276 / 328 CFM) in fan airflow is possible with LFG unit installed.





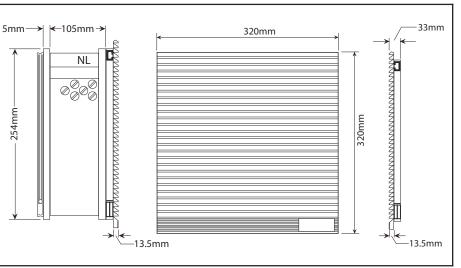
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OA254LFG XC Series



Louvered Fan Guard Kit with Fan Installed AC Fan - 115V, 230V





Frame	Diecast Aluminum	Operating Temperature	0.80
Impeller	PBT, UL94V-0 plastic	Ball Bearing -40C ~ +70C Storage Temp	
Connection	2x Lead Wires or Terminals	-40C ~ +80C Life Expectancy Ball Bearing	0.60 0.50
Motor	Capacitor drive, impedance protected	60,000 hours (L10 at 40C) Environmental: Class B Insulation Rated IP54 Guard	0.40 0.30 0.20
Bearing System	Dual ball	Guard Frame: ABS Resin UL94V-0	
Insulation Resistance	>100M ohm between lead- wire and frame (500VDC)	Color: Black (standard) or Gray Filter Mesh: Nylon fiber	0.10
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	Synthetic Resin	0 150 300 450 600 750 900 Airflow (CFM)

Model Number	OA254LFG111TXC	OA254LFG221TXC	8-ø5mm
Nominal Voltage	115 VAC	230 VAC	
Voltage Range	80 ~ 130	160 ~ 260	283mm
Rated Power	75	75	300mm m m m m m m m m m m m m m m m m m
Rated Speed (RPM)	2,700	2,700	
Airflow (CFM)	850	850	
Noise Level (dB)	69	69	300mm
Max. Static Pressure	0.78" H ₂ O	0.78" H ₂ O	PANEL CUTOUT

* Note: Airflow data is for the fan without the louvered filter attached. Calculations indicate that up to a 40% reduction (~ 510 CFM) in fan airflow is possible with LFG unit installed.

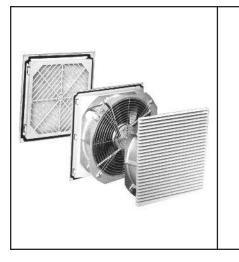


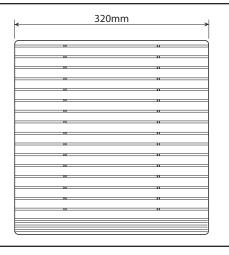


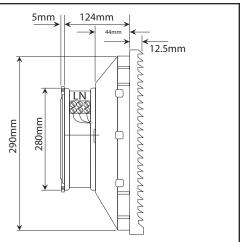
OA280LFG111T



Louvered Fan Guard Kit with Fan Installed AC Fan - 115V, 230V

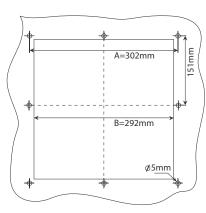






Frame	Diecast Aluminum	<u>Operating</u> <u>Temperature</u> Ball Bearing		- ×60Hz -●50Hz
Impeller	Metal	-40C ~ +60C Storage Temp -40C ~ +80C		0.8
Connection	Terminal Block, 18AWG	Life Expectancy Ball Bearing		0.6
Motor	Capacitor drive, thermally protected	40,000 hours (L10 at 40C) Environmental: IP55 Rated Fan IP54 Rated Guard	inH2O	0.4
Bearing System	Dual ball	Guard Frame: ABS Resin		0.2
Insulation	Class F	Color: Black (standard) or Gray (shown) Filter Mesh: Nylon fiber		0.0
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	Synthetic Resin		0 100 200 300 400 500 600 700 800 900 1000 1100 1200 CFM

Part Number	OA280LFG111T	OA280LFG221T
Nominal Voltage	115VAC	230VAC
Voltage Range	100 ~ 125VAC	200 ~ 240VAC
Rated Power	112 / 148 W	119 / 158 W
Nominal Current	1.0 / 1.5 A	0.59 / 0.82 A
Rated Speed (RPM) 50/60Hz	2,550 / 2,700	2,550 / 2,700
Airflow (CFM) 50/60Hz	1,190 / 1,130 *	1,190 / 1,130 *
Noise Level (dB) 50/60HZ	68 / 70	68 / 70
Max. Static Pressure 50/60Hz	0.78" / 0.65" H ₂ O	0.78" / 0.65" H ₂ O



PANEL CUTOUT

* Note: Airflow data is for the fan without the louvered filter attached. Calculations indicate that up to a 40% reduction (~ 318 / ~ 360 CFM) in fan airflow is possible with LFG unit installed.

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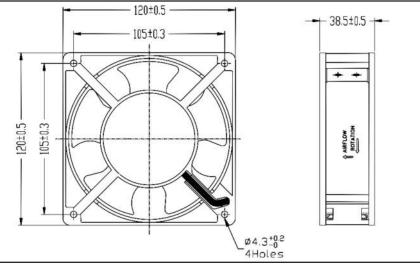


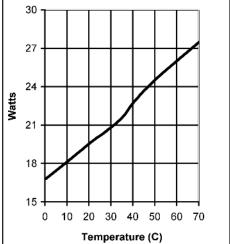
OA109 Temperature Control

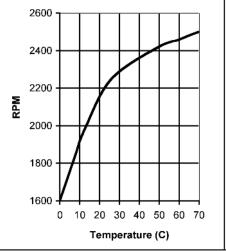


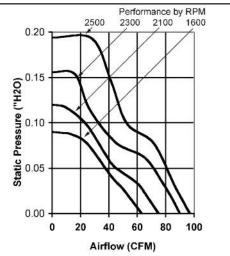
AC Fan - 115V, 230V 120 x 38mm (4.7" x 1.5")



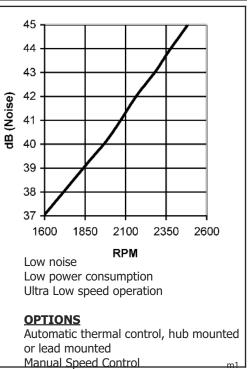








Part Number	OA109AP-11-1TB03 OA109AP-22-	
Frame	Aluminum Alloy	
Impeller	PBT, UL94V-0 plastic	
Connection	Terminal	Terminal
Motor	AC shaded pole, impedan	ce overload protected
Bearing System	Dual ball	Dual Ball
Insulation Resistance	>100M ohm between leadwire and frame (500VD	
Dielectric Strength	1 min at 1,500 VAC, 50/60Hz	
Nominal Voltage	115 VAC (60Hz)	230 VAC (60Hz)
Nominal Current (0C ~ 70C)	0.20 ~ 0.25 A	0.07 ~ 0.12 A
Rated Power (0C ~ 70C)	16 ~ 27.6 W	8 ~ 19.5 W
Rated Speed (RPM) (0C ~ 70C)	1,600 ~ 2,500	1,600 ~ 2,500
Airflow (CFM)	63 ~ 97 63 ~ 97	
Noise Level (dB)	37 ~ 45	37 ~ 45
Operating Temperature	-10C ~ +70C	
Life Expectancy	60,000 hours L10 @ 40C	



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Orion Fans Information and data is subject to change without prior notification.

Spot Cooling



Complete Kit	OD1232-SPOT / DIN Includes: 120x32mm Fan DIN rail DIN mount fan bracket Mounting screws 2 fan guards Power adaptor with 6' cord Automotive grade, double-sided, mount anywhere tape
Spot Cooler Only	OD1232-SPOT Includes: 120x32mm Fan 1 fan guard Power adaptor with 6' cord
Fan ID	OD1232-12HB-03
VOLTAGE INPUT	120VAC / 60Hz
INPUT POWER	19 Watts
DC Nominal Current	0.60 A
DC Locked Current	0.05 A
Rated Speed (RPM)	1,600 ~ 3,750
Airflow *	65CFM @ 25C / 120CFM @ 40C
Noise Level (dB)	20 ~ 47
Max. Static Pressure	0.43" H ₂ O
Bearing System	Dual Ball
Frame & Impeller	PBT, UL94V-0 plastic
Motor	Brushless DC, auto restart, polarity protected. Thermal Control.
Bearing System	Dual ball bearing
Insulation Resistance	10M ohm between leadwire and frame (500VDC)
Dielectric Strength	5mA max at 1,500VAC for 1 minute between the leadwire and frame
Operation Temperature	-10C ~ +70C
Life (L10)	60,000 hours
Storage Temperature	-20C~+80C

Extend the Life of Your Equipment

Thermal Speed Control <u>Airflow Range</u>

> 65 CFM at 25C 120 CFM at 40C

Energy Saving Solution for your Green Initiative

Clips to standard DIN rail



Plugs into any 115VAC power source

OD1232-SPOT / DIN

Part Number - 124141794 120x32mm Thermally controlled Fan * 6' Cord with adaptor 2 guards (1 installed) DIN rail DIN mount fan bracket Mounting screws Automotive grade, double-sided, mount anywhere tape

OD1232-SPOT

Part Number - 124141794 120x32mm Thermally controlled Fan * 6' Cord with adaptor 1 guard installed



<u>OD9225-SPOT</u> - Instant smart cooling for small spaces is also available in a smaller

package

Part Number - 193141791 92x25mm thermally controlled fan. [50CFM (3,100RPM) at 34C to < 30CFM (1,600RPM) at 22C] 6' cord with adaptor 1 guard installed



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			ORION				
OD2510 Series			FANS			Fan - 5, 1 nm (1.0" >	
Image: constrained by the second s				- - - - - - - - - - - - - -	01±0.0±0		
Frame & Impeller	PBT, UL94V-0	plastic			/High /Medium		
Connection	2x Lead wires	28AWG	Tachometer Alarm		0.25		
Motor	Brushless DC, impedance and protected		Life Expectancy (L10) Ball - 60,000 hrs (45C) Sleeve - 30,000 hrs (45C)		0.20 0.15 0.10 0.15 0.010	\mathbf{X}	
Bearing System	Ball bearing or	Sleeve		Operating Temperature		$\mathcal{A}\mathcal{A}$	
Insulation Resistance	10M ohm betw and frame (500		Ball: -20C ~ + Sleeve: -10C [,]		Static 0.05	\mathbb{A}	-
Dielectric Strength	1 minute at 50 leakage < 500		Weight: ~ 0.02	2 lbs			<u> </u>
Storage Temperature	-40C ~ +80C		m1	m1		Airflow (CFM)	
Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range (VDC)	Amps	Max. Static Pressure (``H ₂ O)
OD2510-05H *	12,000	2.7	31	5	4.0 ~ 5.5	0.14	0.23
OD2510-05M *	10,000	2.2	24	5	4.0 ~ 5.5	0.12	0.17
OD2510-05L *	8,000	1.8	18	5	4.0 ~ 5.5	0.10	0.12
OD2510-12H *	12,000	2.7	31	12	6.0 ~ 16	0.09	0.23
OD2510-12M *	10,000	2.2	24	12	6.0 ~ 16	0.08	0.17
	0.000						

* Indicate "B" for ball bearing or "S" for sleeve bearing

8,000

7,000

OD2510-12L *

OD2510-12LL *



1.8

1.45



12

12

6.0 ~ 16

9.0 ~ 13.2

0.12

0.07

0.04

0.07

16

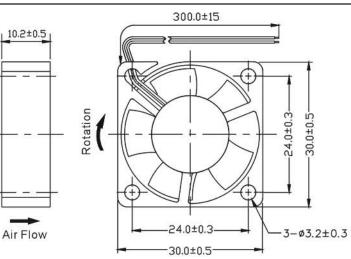
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DC Fan - 5, 12V 30 x 10mm (1.18" x 0.39")





	Brushless DC, auto restart,	Life Expectancy (L10)	Q 0.15
Motor	impedance and polarity protected	Ball - 60,000 hrs (45C) Sleeve - 30,000 hrs (45C)	0.10
Bearing System	Ball bearing or Sleeve	Operating Temperature	
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	Ball: -20C ~ +75C Sleeve: -10C ~ +60C	0.05
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	Weight: ~ 0.02 lbs	
Storage Temperature	-40C ~ +80C	m4	Airflow (CFM)

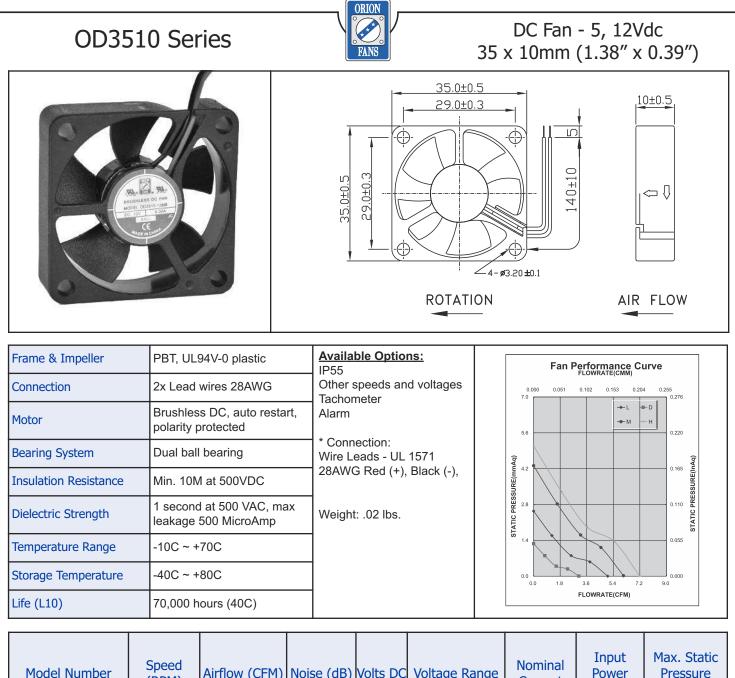
Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range (VDC)	Amps	Max. Static Pressure (``H ₂ O)
OD3010-05H *	10,000	4.6	31	05	4.5~5.5	0.17	0.20
OD3010-05MB *	9,000	4.0	30	05	4.5~5.5	0.08	0.17
OD3010-12H *	10,000	4.6	31	12	9~13.2	0.10	0.20
OD3010-12M *	9,000	4.0	27	12	9~13.2	0.09	0.17
OD3010-12L *	8,000	3.0	20	12	9~13.2	0.06	0.11

* Indicate "B" for ball bearing or "S" for sleeve bearing









Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range	Nominal Current	Input Power (Watts)	Max. Static Pressure (``H ₂ O)
OD3510-05MB	8,000	6	32	5	4~5.5 VDC	.075 A	.65	0.17
OD3510-12MB	8,000	6	32	12	9~13.2 VDC	.065 A	1.56	0.17
OD3510-12LLB	4,500	3	17	12	9~13.2 VDC	.04 A	.60	.05



			ORION					
OD401	LO Series	5	FANS)	DC Fa 40 x 10m	n - 5, 12, m (1.58″		
E CONTRACTOR					4-ø4.2±0.1			
Frame & Impeller	PBT, UL94V-0	plastic	Available Opt	tions:		ым		
Connection	2x Lead wires	2x Lead wires 26AWG			0.10		ΧΠ	
Motor	Brushless DC, auto restart, impedance and polarity protected Ball		PWM Sleeve bearing Life Expectand Ball - 60,000 h	c <u>y (L10)</u> nrs (45C)	80.0 () 80.0 (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Bearing System	Ball bearing		Sleeve - 30,000 hrs (45C) Operating Temperature		0.04			
Insulation Resistance		0M ohm between leadwire Ball: -20C ~ +7 nd frame (500VDC)		75C	Static	<u>N</u>		
Dielectric Strength	1 minute at 50 leakage < 500		Weight: ~ 0.04	l lbs	0.00	\square	\mathcal{M}	
Storage Temperature	-40C ~ +80C			m1	0	0 1 2 3 4 5 6 7 Airflow (CFM)		
Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range (VDC)	Amps	Max. Static Pressure (``H ₂ O)	
OD4010-05H*	6,000	7	25	5	4 ~ 5.5	0.19	0.10	
OD4010-05M*	4,800	6	20	5	4 ~ 5.5	0.11	0.08	
OD4010-05L*	4,200	5	14	5	4 ~ 5.5	0.08	0.06	
OD4010-12H*	6,000	7	25	12	10.8 ~ 13.2	0.10	0.10	
OD4010-12M*	4,800	6	20	12	10.8 ~ 13.2	0.08	0.08	
OD4010-12L*	4,200	5	14	12	10.8 ~ 13.2	0.07	0.06	
OD4010-24H*	6,000	7	25	24	21.6 ~ 26.4	0.09	0.10	
OD4010-24M*	4,800	6	20	24	21.6 ~ 26.4	0.08	0.08	

To indicate sleeve bearing replace "B" suffix with "S" in part number (30,000 hrs life expectancy)

4,200

To indicate sealed sleeve bearing replace "B" with "SS" in part number (50,000 hrs life expectancy)

OD4010-24L*



5

14

64

24

21.6 ~ 26.4

0.06

0.07

OD40	15 Series	ORION FANS	DC Fan - 5, 12, 24VDC 40 x 15mm (1.58" x 0.59")
A CONTRACT OF CONTRACT	ALL OF AL		4 H□LES
		Available Ontional	
Frame & Impeller	PBT, UL94V-0 plastic	Available Options:	Fan Performance Curve
Connection	2x Lead wires *	Other speeds and voltages	FLOWRATE(CMM) 0.000 0.056 0.112 0.168 0.224 0.280 8.0 0.011 0.112 0.168 0.224 0.280
Connection Motor	2x Lead wires * Brushless DC, auto restart, polarity protected	Other speeds and voltages Tachometer Alarm	FLOWRATE(CMM) 0.000 0.056 0.112 0.168 0.224 0.280
Motor	Brushless DC, auto restart,	Other speeds and voltages Tachometer Alarm *Connection: Wire Leads UL 1007	FLOWRATE(CMM) 0.000 0.056 0.112 0.168 0.224 0.280 8.0
Motor Bearing System	Brushless DC, auto restart, polarity protected	Other speeds and voltages Tachometer Alarm *Connection: Wire Leads UL 1007 26AWG Red (+), Black (-)	FLOWRATE(CMM) 0.000 0.056 0.112 0.168 0.224 0.280 8.0
	Brushless DC, auto restart, polarity protected Dual ball bearing	Other speeds and voltages Tachometer Alarm *Connection: Wire Leads UL 1007	FLOWRATE(CMM) 0.000 0.056 0.112 0.168 0.224 0.280 8.0

Life (L10)	70,000 ho	ours (40C)						FLOW	/RATE(CFM)	
Model Number	Part Number	Speed (RPM)	Airflo (CFM	 Noise (dB)	Volts DC		age 1ge	Nominal Current	Input Power (Watts)	Max. Static Pressure (``H ₂ O)
OD4015-05HB	146541001	8,000	8.5	36	5	4~5.5	5 VDC	.25 A	1.5	.25
OD4015-05LB	145121001	6,000	6.8	26	5	4~5.5	5 VDC	.15 A	1.5	.16
OD4015-12HB	146141001	8,000	8.5	36	12	9~13.	2 VDC	.11 A	1.8	.25
OD4015-12MB	146131001	7,000	8.1	32	12	9~13.	2 VDC	.088 A	1.4	.23
OD4015-12LB	146121001	6,000	6.8	26	12	9~13.	2 VDC	.052 A	1.2	.16
OD4015-24HB	146241001	8,000	8.5	36	24	17~26	.4 VDC	.06 A	1.92	.25
OD4015-24LB	146221001	6,000	6.8	29	24	17~26	.4 VDC	.06 A	1.92	.16

Temperature Range

Storage Temperature

-10C ~ +70C

-40C ~ +80C





0.0 0.0

2.0

4.0

6.0

8.0

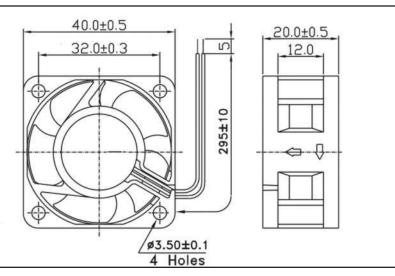
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OD4020 Series



DC Fan - 5, 12, 24V 40 x 20mm (1.58" x 0.79")





Frame & Impeller	PBT, UL94V-0 plastic	Available Options:	
Connection	2x Lead wires 26AWG	Sleeve Bearing Sealed Sleeve Bearing Tachometer	
Motor	Brushless DC, auto restart, impedance and polarity protected	Alarm <u>Life Expectancy (L10)</u> Ball - 60,000 hrs (45C)	0.25 0.20 0.20
Bearing System	Ball bearing	Sleeve - 30,000 hrs (45C) Operating Temperature	
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	Ball: -20C ~ 75C	0.10 By 0.05
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	Weight: ~0.06 lbs.	0.00
Storage Temperature	-40C ~ +80C	m1	0 2 4 6 8 10 Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range (VDC)	Amps	Max. Static Pressure (``H ₂ O)
OD4020-05HB	7,800	9	36	5	4 ~ 7	0.29	0.30
OD4020-05MB	6,900	8	33	5	4 ~ 7	0.16	0.24
OD4020-05LB	6,200	7	30	5	4 ~ 7	0.14	0.19
OD4020-12HB	7,800	9	36	12	7 ~ 14	0.10	0.30
OD4020-12MB	6,900	8	33	12	7 ~ 14	0.08	0.24
OD4020-12LB	6,200	7	30	12	7 ~ 14	0.07	0.19
OD4020-24HB	7,800	9	36	24	10 ~ 27	0.09	0.30
OD4020-24MB	6,900	8	33	24	10 ~ 27	0.07	0.24
OD4020-24LB	6,200	7	30	24	10 ~ 27	0.06	0.19

To indicate sleeve bearing replace "B" suffix with "S" in part number (30,000 hrs life expectancy) To indicate sealed sleeve bearing replace "B" with "SS" in part number (50,000 hrs life expectancy)

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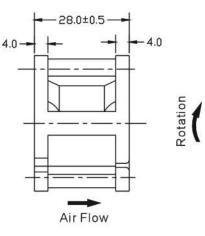


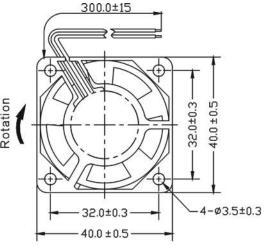
OD4028 Series



DC Fan - 5, 12, 24V 40 x 28mm (1.58" x 1.10")







Frame & Impeller	PBT, UL94V-0 plastic	Available Options:	0.35
Connection	2x Lead wires 26AWG	Tachometer Alarm PWM (Pulse Width Modu-	
Motor	Brushless DC, auto restart, impedance and polarity protected	lated speed control) Thermistor (Thermal Speed Control) Life Expectancy (L10)	0.25 0.20 0.15
Bearing System	Ball bearing or Sleeve	Ball - 60,000 hrs (45C)	
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	Sleeve - 30,000 hrs (45C) <u>Operating Temperature</u> Ball: -20C ~ 75C	01.0 Static
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	Sleeve: -10C ~ 50C	0.00 0 2 4 6 8 10 12
Storage Temperature	-40C ~ +80C	Weight: ~ 0.08 lbs m1/m4	Airflow (CFM) (5V not shown)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range (VDC)	Amps	Max. Static Pressure (``H ₂ O)
OD4028-05H *	7,500	10	32	5	3.5 ~ 6	0.35	0.24
OD4028-05M *	6,500	9	29	5	4~7	0.30	0.17
OD4028-05L *	5,000	7	25	5	4~7	0.22	0.10
OD4028-12H *	8,800	12	37	12	7~14	0.20	0.32
OD4028-12M *	8,000	11	35	12	7~14	0.18	0.25
OD4028-12L *	5,000	7	25	12	7~14	0.12	0.10
OD4028-24H *	8,800	12	37	24	10~27	0.16	0.32
OD4028-24M *	8,000	11	35	24	10~27	0.12	0.25
OD4028-24L *	5,000	7	25	24	10~27	0.09	0.10

* Indicate "B" for ball bearing or "S" for sleeve bearing



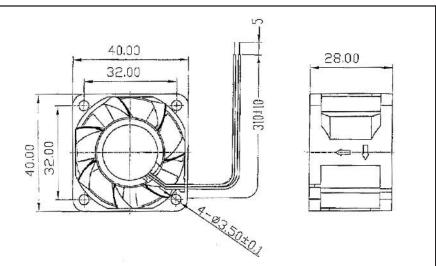


OD4028 - XC Series



DC Fan - 12V, 24V High Speed 40 x 28mm (1.58" x 1.10")





Frame & Impeller	PBT, UL94V-0 plastic	Available Options:	1.60
Connection	2x Lead wires	Tachometer Alarm	
Motor	Brushless DC, auto restart, polarity protected.	PWM Life Expectancy (L10)	02H
Bearing System	Dual ball bearing	50,000 hours (40C)	
Insulation Resistance	Min. 10M at 500VDC	Weight: ~ 0.09 lbs	
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp		
Temperature Range	-20C ~ +75C		0 5 10 15 20 25 30
Storage Temperature	-40C ~ +80C	m1	Airflow (CFM)

Part Number	OD4028-12HBXC	OD4028-24HBXC
Nominal Voltage	12 VDC	24 VDC
Voltage Range	10.8 ~ 13.2 VDC	21.6 ~ 26.4 VDC
Nominal Current	0.8 A	0.035 A
Start-up Voltage	9.0 VDC	17.0 VDC
Rated Power	9.5 W	8.4 W
Rated Speed (RPM)	16,000	16,000
Airflow (CFM)	26.5	26.5
Noise Level (dB)	57	57
Max. Static Pressure	1.60" H ₂ O	1.60" H ₂ O

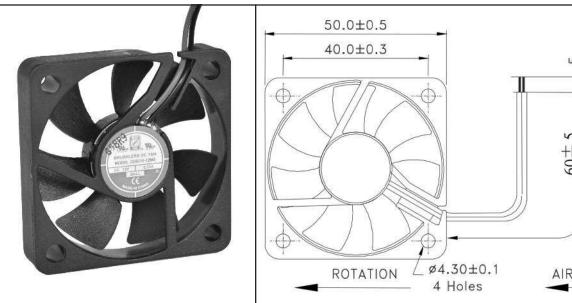


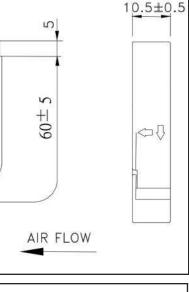


OD5010 Series



DC Fan - 5, 12, 24V 50 x 10mm (1.97" x 0.39")





Frame & Impeller	PBT, UL94V-0 plastic	Available Options:	HML
Connection	2x Lead wires (~290mm) 26AWG	Tachometer Alarm	0.12
Motor	Brushless DC, auto restart, polarity protected	Life Expectancy (L10) 60,000 hrs Ball 50,000 hrs Sealed Sleeve	90.0 H 80.0 H
Bearing System	Dual Ball, sleeve, or sealed sleeve	30,000 hrs Sleeve	
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	<u>Operating Temperature</u> -20C ~ +75C	
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	Weight: ~ 0.04 lbs.	
Storage Temperature	-40C ~ +80C	m1	0.00

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Input Power (Watts)	Amps	Max. Static Pressure (``H ₂ O)
OD5010-05H *	5,200	11	28	5	1.15	0.23	0.12
OD5010-05M *	4,600	10	25	5	0.75	0.15	0.10
OD5010-05L *	3,900	9	20	5	0.45	0.10	0.06
OD5010-12H *	5,200	11	28	12	1.44	0.12	0.12
OD5010-12M *	4,600	10	25	12	1.08	0.09	0.10
OD5010-12L *	3,900	9	20	12	0.96	0.08	0.06
OD5010-24H *	5,200	11	28	24	1.92	0.08	0.12
OD5010-24M *	4,600	10	25	24	1.44	0.06	0.10
OD5010-24L *	3,900	9	20	24	1.20	0.05	0.06

 * Indicate "B" for ball bearing, "S" for sleeve bearing, or "SS" for sealed sleeve





OD5015-12HB

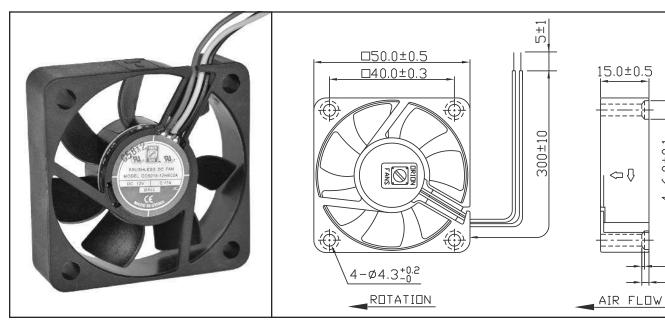


DC Fan - 12V 50 x 15mm (1.96" x 0.59")

 $4 - 6.0 \pm 0.1$

0.85

2.30



Frame & Impeller	PBT, UL94V-0	Notes		
Connection	2x Lead wires *	Date: 063015	6	0.15
Motor	Brushless DC, impedence protected	<u>Available Options:</u> Tachometer Alarm	e ("H2O)	0.12
Bearing System	Ball	Other speeds and Voltages *Connection: UL 1007 26AWG, Black GND		0.09
Insulation Resistance	10M ohm between leadwire and frame (500VDC)			0.06
Dielectric Strength	60 seconds at 500 VAC, max leakage < 500 MicroAmp	UL 1007 26AWG, Red Vcc	Static	0.03
Temperature Range	-10C ~ +70C	Weight: .06 lbs.		0 3 6 9 12 15
Life Expectancy	70,000 hours (40C)			Airflow (CFM)

Model Number	Part Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range	Nominal Current	Input Power (Watts)	Max. Static Pressure (^{°°} H ₂ O)
OD5015-12HB	106141001	4,800	14	30	12	9~13.2 VDC	.11 A	1.68	0.13

* Indicate "B" for ball bearing, "S" for sleeve bearing, or "SS" for sealed sleeve





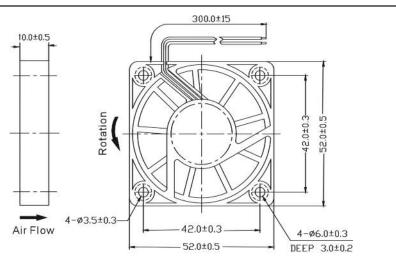






DC Fan - 5, 12V 52 x 10mm (2.05" x 0.39")





Frame & Impeller	PBT, UL94V-0 plastic	Available Options: Tachometer	н м
Connection	2x Lead wires 26AWG	Alarm Life Expectancy (L10)	0.15
Motor	Brushless DC, auto restart, impedance and polarity protected	Ball - 60,000 hrs (45C) Sleeve - 30,000 hrs (45C) Operating Temperature	0.12 0.09
Bearing System	Ball bearing or Sleeve	Ball: -20C + 75C Sleeve: -10C ~ +50C	80.06
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	Weight: ~ 0.05 lbs	50.0 Static
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp		0.00 0 2 4 6 8 10 12 Airflow (CFM)
Storage Temperature	-40C ~ +80C	m4	Arriow (GPM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range (VDC)	Amps	Max. Static Pressure (``H ₂ O)
OD5210-05H *	6,000	12	38	5	3.5~5.7	0.35	0.14
OD5210-05M *	5,000	10	32	5	3.5~5.7	0.21	0.11
OD5210-12H *	6,000	12	36	12	8~17	0.14	0.14
OD5210-12M *	5,000	10	32	12	8~17	0.12	0.11

* Indicate "B" for ball bearing or "S" for sleeve bearing





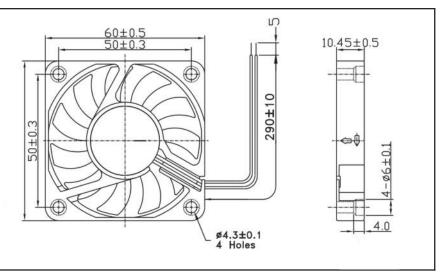


OD6010 Series



DC Fan - 5V, 12V 60 x 10mm (2.36" x 0.39")





Frame & Impeller	PBT, UL94V-0 plastic	Available Options: Tachometer	0.16 H M L
Connection	2x Lead wires 24AWG	Alarm 24V	0.14
Motor	Brushless DC, auto restart, impedance and polarity protected	Life Expectancy (L10) Ball - 60,000 hrs (45C) Sleeve - 30,000 hrs (45C)	0.12 0.10 0.00
Bearing System	Ball bearing or Sleeve	Operating Temperature Ball: -20C ~ +75C	e 0.06
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	Sleeve: -10C ~ +50C Weight: ~ 0.07 lbs	0.04 0.02
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp		0.00
Storage Temperature	-40C ~ +80C	m1	Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Input Power (W)	Amps	Max. Static Pressure (``H ₂ O)
OD6010-05M *	4,000	17	31	5	1.65	0.33	0.12
OD6010-05L *	3,400	14	26	5	1.30	0.26	0.09
OD6010-12H *	4,600	21	36	12	3.00	0.25	0.16
OD6010-12M *	4,000	17	31	12	1.92	0.16	0.12
OD6010-12L *	3,400	14	26	12	1.20	0.10	0.09

* Indicate "B" for ball bearing or "S" for sleeve bearing





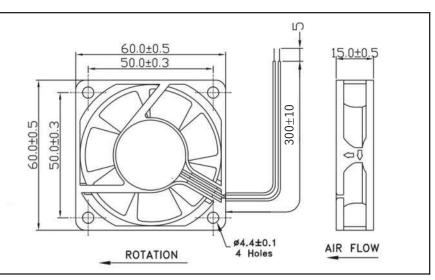


OD6015 Series



DC Fan - 5, 12, 24V 60 x 15mm (2.36" x 0.59")





Frame & Impeller	PBT, UL94V-0 plastic	Available Options: Tachometer (FG)	0.18 HH H M L LL
Connection	2x Lead wires	Alarm (RD) Other frame styles available	
Motor	Brushless DC, auto restart, polarity protected	Sleeve Bearing Life Expectancy (L10)	0.13 0.12
Bearing System	Dual Ball	Ball Bearing 60,000 hours (L10 at 40C)	
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	<u>Operating Temperature</u> Ball Bearing	0.00 Static
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	-20C ~ +75C Weight: ~ 0.08 lbs	0.00
Storage Temperature	-40C ~ +80C	m1	0 3 6 9 12 15 18 Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Power Input (Watts)	Amps	Max. Static Pressure ("H ₂ O)
OD6015-05HB	4,500	16	33	5	1.10	0.22	0.15
OD6015-05MB	3,900	14	29	5	0.90	0.18	0.12
OD6015-05LB	3,500	12	25	5	0.60	0.12	0.08
OD6015-12HHB	5,100	18	39	12	1.44	0.12	0.17
OD6015-12HB	4,500	16	33	12	1.08	0.09	0.15
OD6015-12MB	3,900	14	29	12	0.98	0.08	0.12
OD6015-12LB	3,500	12	25	12	0.84	0.07	0.08
OD6015-12LLB	3,100	11	21	12	0.72	0.06	0.06
OD6015-24HB	4,500	16	33	24	1.20	0.05	0.15



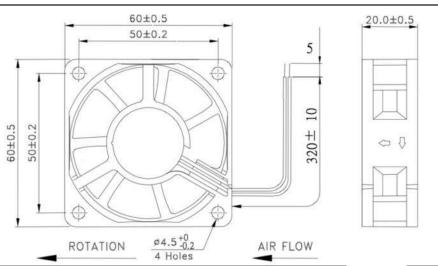


OD6020 Series



DC Fan - 12, 24V 60 x 20mm (2.36" x .79")





Frame & Impeller	PBT, UL94V-0 plastic	Available Options:	0.15
Connection	2x Lead wires	Tachometer Alarm Other frame styles available	
Motor	Brushless DC, auto restart, polarity protected	5V available on request <u>Life Expectancy (L10)</u> Ball Bearing 60,000 hours (L10 at 40C)	0.12 (0) (H50) (H70) (H7
Bearing System	Dual Ball or Sleeve	Sleeve Bearing 30,000 hours (L10 at 40C)	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	Operating Temperature Ball Bearing -20C ~ +75C	Static
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	Sleeve Bearing -10C ~ +50C	0.00 0 5 10 15 20
Storage Temperature	-40C ~ +80C	Weight: ~ 0.11 lbs m1	Airflow (CFM)

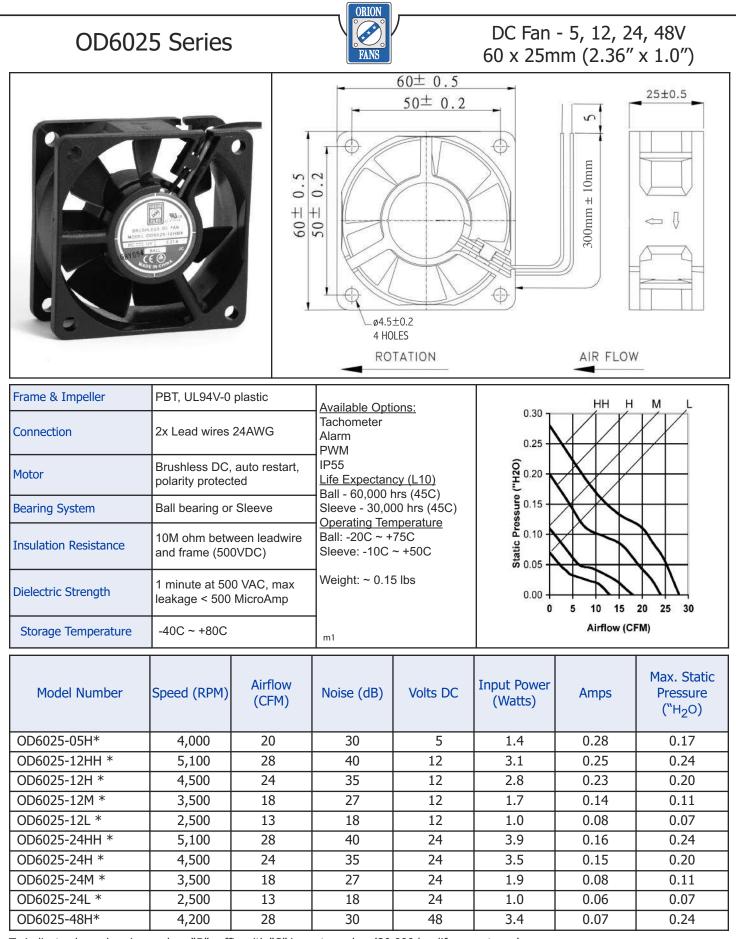
Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range	Amps	Max. Static Pressure ("H ₂ O)
OD6020-12H*	4,500	18	30	12	10.8~13.2	0.16	0.14
OD6020-12M*	3,900	15	26	12	10.8~13.2	0.13	0.11
OD6020-12L*	3,500	13	22	12	10.8~13.2	0.08	0.09
OD6020-24H*	4,500	18	30	24	21.6~26.4	0.09	0.14
OD6020-24M*	3,900	15	26	24	21.6~26.4	0.06	0.11
OD6020-24L*	3,500	13	22	24	21.6~26.4	0.04	0.09

* Indicate "B" to specify Ball bearing or "S" to specify Sleeve bearing









To indicate sleeve bearing replace "B" suffix with "S" in part number (30,000 hrs life expectancy) To indicate sealed sleeve bearing replace "B" with "SS" in part number (50,000 hrs life expectancy)

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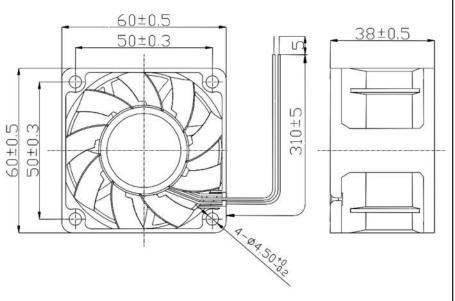


OD6038 VA Series



DC Fan 12V, 24V - Vaneaxial, High Pressure 60 x 38mm (2.36" x 1.5")





Frame & Impeller	PBT, UL94V-0 plastic	Available Ontione	1.60
Connection	2x Lead wires, Red(+), Black (-)	Available Options	
Motor	Brushless DC, auto restart, polarity protected.	Locked Rotor Alarm (RD)	08.0 (
Bearing System	Dual ball bearing	Thermal Control	ğ 0.80
Insulation Resistance	Min. 10M at 500VDC	Other speeds and voltages	
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	available by special order <u>Life Expectancy (L10)</u> 50,000 hours (40C)	o.40 Static
Temperature Range	-20C ~ +75C	Weight: ~ 0.24 lbs.	0.00 16 32 48 64
Storage Temperature	-40C ~ +80C	m1	Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Input Power (Watts)	Amps	Max. Static Pressure (⁽ `H ₂ O)
OD6038-12HBVXC	10,000	61	64	12	17	1.42	1.59
OD6038-12MBVXC	8,000	48	58	12	8	0.64	0.97
OD6038-12LBVXC	6,000	38	50	12	3	0.28	0.58
OD6038-24HBVXC	10,000	61	64	24	21	0.88	1.59
OD6038-24MBVXC	8,000	48	58	24	10	0.43	0.97
OD6038-24LBVXC	6,000	38	50	24	4	0.20	0.58



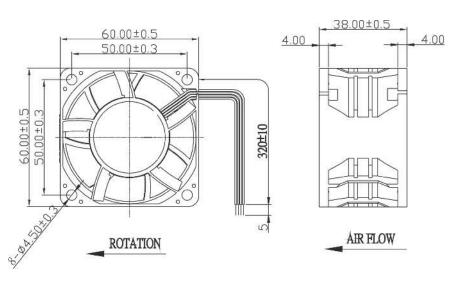


OD6038 XC Series



DC Fan 12V, 24V 60 x 38mm (2.36" x 1.5")





Frame & Impeller	PBT, UL94V-0 plastic		FLOWRATE(CMM)
	·, • _ • · • p	Available Options	0.00 0.51 1.02 1.53 2.04 2.55
Connection	Lead wires *	Tachometer - Open Collector	
Motor	Brushless DC, auto restart, polarity protected.	PWM Input	80.0 2.36
Bearing System	Dual ball bearing	Weight: ~ 0.24 lbs.	45.0 1.77
Insulation Resistance	Min. 10M at 500VDC	* Connection	Essona
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	UL1007, 24AWG, ~320mm Red (+) Black (-)	45.0 45.0 30.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0
Temperature Range	-20C ~ +70C		0.0
Storage Temperature	-40C ~ +80C		0.0 0 18 38 54 72 90 FLOWRATE(CFM)
Life (L10)	70,000 hours (40C)	m1	

Part Number	Speed (RPM)	Airflow (CFM)	Noise Level (dB)	Nominal Voltage	Voltage Range V DC	Nominal Current	Rated Power	Max. Static Pressure (``H ₂ O)
OD6038-12HHBXC	16,000	86	66	12 V DC	10.8 ~ 13.2	2.70 A	36 W	2.95
OD6038-12HBXC	14,500	76	64	12 V DC	10.8 ~ 13.2	2.10 A	28.8 W	2.40
OD6038-12LBXC	13,000	68	61	12 V DC	10.8 ~ 13.2	1.45 A	21.6 W	1.95
OD6038-24HHBXC	16,000	86	66	24 V DC	21.6 ~ 26.4	1.25 A	30 W	2.95



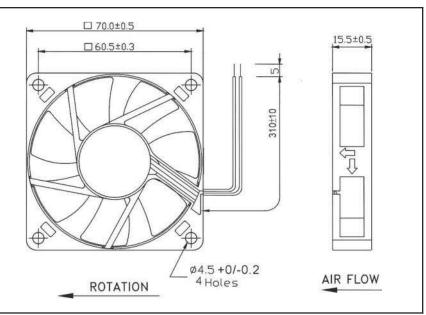


OD7015 Series



DC Fan 12VDC 70 x 15mm (2.76" x .60")





Frame & Impeller	PBT, UL94V-0 plastic	Available Options	Satis Prevente mattyo intyo .125
Connection	2x Lead wires *	IP55	
Motor	Brushless DC, auto restart, polarity protected.	Other speeds and voltages Tachometer	3.712 1400
Bearing System	Dual ball bearing	Alarm	2.784 10955
Insulation Resistance	Min. 10M at 500VDC	*Connection:	
Dielectric Strength	1 second at 500VAC max leakage 500 microamp	Wire Leads - UL1007 24AWG Red(+), Black(-)	1.356 07904
Temperature Range	-10C ~ +70C	Weight: .13 lbs.	
Storage Temperature	-40C ~ +80C]	ϕ
Life (L10)	70,000 hours (40C)		· · · · · · · · · · · · · · · · · · ·

Model Number	Part Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range	Nominal Current	Input Power (Watts)	Max. Static Pressure (``H ₂ O)
OD7015-12MB	112131001	3,500	28.5	37	12	7~13.2 VDC	.16A	2.16	.15



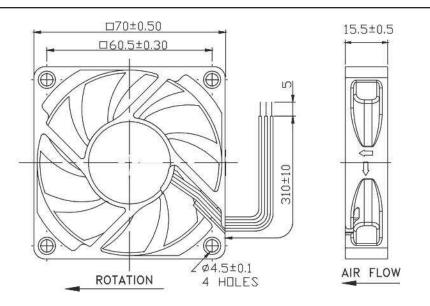


OD7015 Series



DC Fan 12VDC - Super High Speed 70 x 15mm (2.76" x .60")





Frame & Impeller	PBT, UL94V-0 plastic	Available Options	Static Pressure multi-O atk-O
Connection	3x Lead wires *	IP55	841 3311
Motor	Brushless DC, auto restart, polarity protected.	Other speeds and voltages Tachometer	6.723 2643
Bearing System	Dual ball bearing	Alarm	5.005 19940
Insulation Resistance	Min. 10M at 500VDC	*Connection:	
Dielectric Strength	1 second at 500VAC max leakage 500 microamp	Wire Leads - UL1007 24AWG Red(+), Black(-), White Tachometer	3.381 13241
Temperature Range	-10C ~ +70C	Weight: .13 lbs.	1.682 06622
Storage Temperature	-40C ~ +80C		
Life (L10)	70,000 hours (40C)		Flowards 0 286 572 838 1.144

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range	Nominal Current	Input Power (Watts)	Max. Static Pressure (``H ₂ O)
OD7015-12HHB01A	5,500	41	44.5	12	7~13.2 VDC	.26A	4.32	.26





OD702	20 Series	FANS	DC FAN, 12VDC 70 x 20mm (2.76″ x .79″)
Revision of the second se			1 1 1 1 1 1 1 1 1 1 1 1 1 1
Frame & Impeller	PBT, UL94V-0 plastic	Available Options	Fan Performance Curve
Connection	2x Lead wires *	Thermal Control IP55	FLOWRATE(CMM) 0.000 0.283 0.566 0.849 1.132 1.415 9.0 0.354
Motor	Brushless DC, auto restart, polarity protected.	Other speeds and voltages PWM	9.0 → H → U 0.283
Bearing System	Dual ball bearing	Tachometer	
Insulation Resistance	Min. 10M at 500VDC	*Connection:	(bp5.4 0.212 UII)
Dielectric Strength	1 second at 500VAC max leakage 500 microamp	Wire Leads - UL1007 24AWG Red(+), Black(-)	IATIC PRESSURE (mmda) 9''''''''''''''''''''''''''''''''''''
Temperature Range	-10C ~ +70C	Weight: .14 lbs.	5 1.8
	-40C ~ +80C	1	0.0
Storage Temperature	-400 ~ +000		0.0 10.0 20.0 30.0 40.0 50.0

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range	Nominal Current	Input Power (Watts)	Max. Static Pressure (``H ₂ O)
OD7020-12HHB	5,000	45	43	12	8~13.2 VDC	.50 A	6	.31
OD7020-12HB	4,500	41	41.5	12	7~13.2 VDC	.35 A	5.2	.26

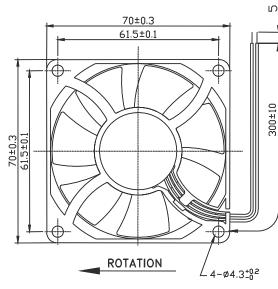


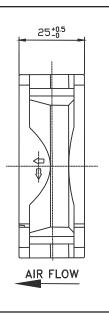
OD7025 Series



DC FAN, 12VDC 70 x 25mm (2.76"x 1.0")







Frame & Impeller	PBT, UL94V-0 plastic	Available Options	Fan Performance Curve
Connection	2x Lead wires *	IP55	0.000 0.339 0.678 1.017 1.356 1.695
Motor	Brushless DC, auto restart, polarity protected.	Other speeds and voltages	9.6 → M = L → H → U 0.376
Bearing System	Dual ball bearing	PWM Tachometer	
Insulation Resistance	Min. 10M at 500VDC		
Dielectric Strength	1 second at 500VAC max leakage 500 microamp	*Connection: Wire Leads - UL1007 24AWG Red(+), Black(-)	STATIC PRESSURE (mag)
Temperature Range	-10C ~ +70C	Weight: .20 lbs.	io 2.4
Storage Temperature	-40C ~ +80C]	
Life (L10)	70,000 hours (40C)]	0 12 24 36 46 60 FLOWRATE(CFM)

Model Number	Part Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range	Nominal Current	Input Power (Watts)	Max. Static Pressure (``H ₂ O)
OD7025-12HBXC	114181001	6,000	60	49.5	12	7~13.2 VDC	.62 A	9.6	.50
OD7025-12HHB10A	114151261	5,000	51	46	12	7~13.2 VDC	.33 A	5.04	.35
OD7025-24HHB	114251001	5,000	51	46	24	17~26.4 VDC	.20 A	6.24	.35
OD7025-24MB	114231001	3,800	33	36	24	17~26.4 VDC	.085	2.64	.20



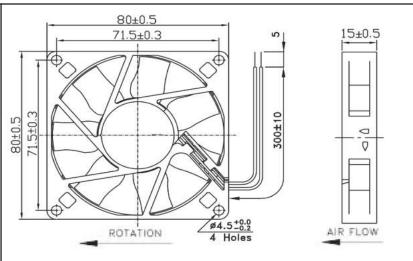


OD8015 Series



DC Fan - 12, 24V 80 x 15mm (3.15" x 0.59")





Frame & Impeller	PBT, UL94V-0 plastic	Available Options:	
Connection	2x Lead wires 26AWG	Tachometer Alarm 5V	
Motor	Brushless DC, auto restart, impedance and polarity protected	Life Expectancy (L10) Ball - 60,000 hrs (45C) Sleeve - 30,000 hrs (45C)	0.0 0 000 000 000 000 000 000 000 000 0
Bearing System	Ball bearing or Sleeve	Sieeve - 50,000 ms (450)	
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	<u>Operating Temperature</u> Ball: -20C ~ +70C Sleeve: -10C ~ +50C	0.03
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	Weight: ~0.14 lbs	0.00 0 5 10 15 20 25 30
Storage Temperature	-40C ~ +80C	m1	Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range (VDC)	Amps	Max. Static Pressure (``H ₂ O)
OD8015-12H*	3,200	30	33	12	10.8~13.2	0.18	0.11
OD8015-12M*	2,500	23	26	12	10.8~13.2	0.12	0.07
OD8015-12L*	2,000	20	20	12	10.8~13.2	0.09	0.05
OD8015-24H*	3,200	30	33	24	22.6~26.4	0.10	0.11
OD8015-24M*	2,500	23	26	24	22.6~26.4	0.08	0.07

* Indicate "B" for ball bearing or "S" for sleeve bearing





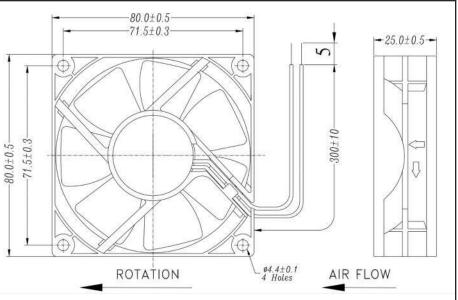


OD8025 Series



DC Fan - 12, 24V 80 x 25mm (3.15" x 1.0")





Frame & Impeller	PBT, UL94V-0 plastic	Available Options: Tachometer (FG)	НН Н M L LL
Connection	2x Lead wires 24AWG	Alarm (RD) Thermal Speed Control	0.20
Motor	Brushless DC, auto restart, polarity protected	PWM Input Sleeve bearing IP55	0.00 U.12 U.12 U.10 U.12 U.10 U.10 U.10 U.10 U.10 U.10 U.10 U.10
Bearing System	Dual ball bearing	48V	§ 0.12
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	5V Life Expectancy (L10)	0.08
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	65,000 hours (45C) Weight: ~ 0.19 lbs	P0.0 Static
Temperature Range	-20C ~ +75C		0.00 0 10 20 30 40 50
Storage Temperature	-40C ~ +80C	m1	Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Input Power (Watts)	Amps	Max. Static Pressure (``H ₂ O)
OD8025-12HHB	3,400	44	40	12	3.11	0.26	0.19
OD8025-12HB	3,100	40	35	12	2.90	0.25	0.15
OD8025-12MB	2,500	31	28	12	1.45	0.15	0.10
OD8025-12LB	2,100	26	23	12	0.96	0.08	0.07
OD8025-12LLB	1,600	19	15	12	0.49	0.04	0.04
OD8025-24HB	3,100	40	35	24	2.41	0.11	0.16
OD8025-24MB	2,500	31	28	24	1.67	0.08	0.10
OD8025-24LB	2,100	26	23	24	0.96	0.05	0.07

To indicate sleeve bearing replace "B" suffix with "S" in part number (30,000 hrs life expectancy) To indicate sealed sleeve bearing replace "B" with "SS" in part number (50,000 hrs life expectancy)

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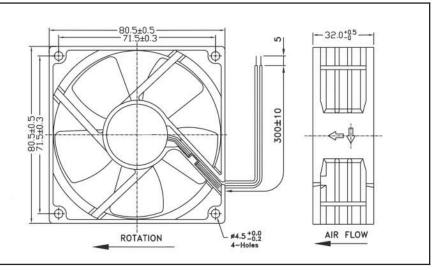


OD8032 Series



DC Fan - 12, 24, 48V 80 x 32mm (3.15" x 1.25")





Frame & Impeller	PBT, UL94V-O plastic	<u>Available Options</u> Tachometer (FG)	HML
Connection	2x Lead wires, UL 1007, 24AWG	Alarm (RD) Thermal Speed Control	0.30
Motor	Brushless DC, auto restart, polarity protected	(Thermistor) PWM Input (Manual Speed Control)	Q 0.20
Bearing System	Dual Ball or Sleeve	Life Expectancy (L10) Ball Bearing 70,000 hours (L10 at 40C)	L 0.15 L 0.10
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	Sleeve Bearing 35,000 hours (L10) at 40C)	0.10 taging tagi
Dielectric Strength	1 second at 500 VAC, max leakage - 500 MicroAmp	Operating Temperature Ball Bearing -20C ~ +70C	
Storage Temperature	-40C ~ +80C	Sleeve Bearing -10C ~ +50C	Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range	Nominal Amps	Max. Static Pressure (``H ₂ O)
OD8032-12H*	3,800	50	42	12	10.8~13.2	0.19	0.29
OD8032-12M*	3,400	45	37	12	10.8~13.2	0.16	0.24
OD8032-12L*	3,000	40	35	12	10.8~13.2	0.11	0.19
OD8032-24H*	3,800	50	42	24	21.6~26.4	0.12	0.29
OD8032-24M*	3,400	45	37	24	21.6~26.4	0.10	0.24
OD8032-24L*	3,000	40	35	24	21.6~26.4	0.07	0.19
OD8032-48H*	3,800	50	42	48	24~56	0.08	0.29
OD8032-48M*	3,400	45	37	48	24~56	0.07	0.24
OD8032-48L*	3,000	40	35	48	24~56	0.06	0.19

* Indicate "B" to specify Ball bearing or "S" to specify Sleeve bearing



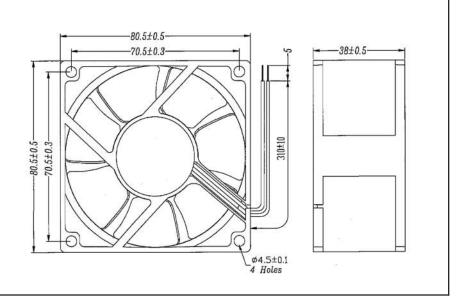


OD8038 Series



DC Fan - 12, 24V 80 x 38mm (3.15" x 1.5")





Frame & Impeller	PBT, UL94V-0 plastic	Options	Extra High High
Connection	2x Lead wires, Red(+), Black (-)	Tachometer (FG) Locked Rotor Alarm (RD)	
Motor	Brushless DC, auto restart, polarity protected.	Thermal Control 48V available	
Bearing System	Dual ball bearing	Weight: ~0.22 lbs.	0.15 0.10
Insulation Resistance	Min. 10M at 500VDC	Life Expectancy (L10)	5 0.15
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	50,000 hours (40C)	0.10 Static Base 0.00 Static
Temperature Range	-20C ~ +75C		0.00
Storage Temperature	-40C ~ +80C	m1	0 16 32 48 64 Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Input Power (Watts)	Amps	Max. Static Pressure (``H ₂ O)
OD8038-12HHB	4,000	61	44	12	6.2	0.52	0.30
OD8038-12HB	3,500	54	40	12	3.9	0.33	0.23
OD8038-12MB	3,000	46	36	12	2.5	0.21	0.17
OD8038-12LB	2,500	38	32	12	1.7	0.14	0.12
OD8038-24HB	3,500	54	40	24	5.8	0.14	0.23
OD8038-24MB	3,000	46	36	24	4.3	0.10	0.17
OD8038-24LB	2,500	38	32	24	3.4	0.08	0.12





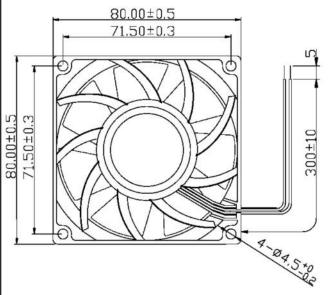
OD8038 VA Series

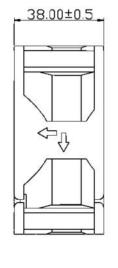




DC Fan - 12, 24, 48V 80 x 38mm (3.15" x 1.5")







Frame & Impeller	PBT, UL94V-0 plastic	Options Available	1.20
Connection	2x Lead wires, Red(+), Black (-)	Tachometer (FG) Locked Rotor Alarm (RD)	
Motor	Brushless DC, auto restart, polarity protected.	Thermal Control PWM IP55	\$\$\begin{pmatrix} 0.90 & \$\$\\expansis \$\$\begin{pmatrix} 2 & \$\$\\expansis \$\$\$\begin{pmatrix} 2 & \$\$\$\\expansis
Bearing System	Dual ball bearing	Life Expectancy (L10)	<u><u><u></u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u>
Insulation Resistance	Min. 10M at 500VDC	50,000 hours (40C)	
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	Weight: ~0.40 lbs.	Static Pressure ("H20) 09.0 09.0 00.0 00.0 00.0 00.0 00.0 00.0
Temperature Range	-20C ~ +75C		
Storage Temperature	-40C ~ +80C	m1	0 30 60 90 120 Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Input Power (Watts)	Amps	Max. Static Pressure (``H ₂ O)
OD8038-12HHBVXC	7,100	112	60	12	22	1.9	1.10
OD8038-12HBVXC	6,300	99	57	12	14	1.2	0.81
OD8038-12MBVXC	5,600	89	54	12	10	0.8	0.75
OD8038-12LBVXC	4,900	76	51	12	6	0.5	0.50
OD8038-24HBVXC	6,300	99	57	24	13	0.5	0.81
OD8038-24MBVXC	5,600	89	54	24	10	0.4	0.75
OD8038-24LBVXC	4,900	76	51	24	7	0.3	0.50
OD8038-48HBVXC	6,300	99	57	48	14	0.3	0.81
OD8038-48MBVXC	5,600	89	54	48	10	0.2	0.75
OD8038-48LBVXC	4,900	76	51	48	7	0.15	0.50

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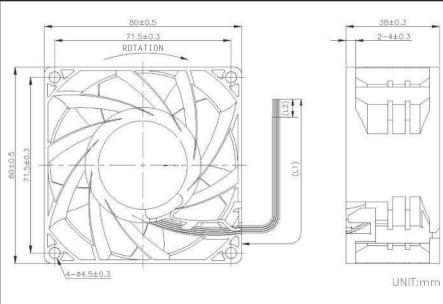


OD8038 XE Series



DC Fan 12V, 48V 80 x 38mm (3.15" x 1.5")





Frame & Impeller	PBT, UL94V-0 plastic	Available Options	
Connection	4x Lead wires *	Thermal Control	4.00
Motor	Brushless DC, auto restart, polarity protected.	* Connection Wire Leads - UL1430	(0 3.00 3.00
Bearing System	Dual ball bearing	24AWG Red (+)	2.50
Insulation Resistance	Min. 10M at 500VDC	Black (-) White Tachometer	2.50 2.00 1.50 1.50 1.00
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	Blue PWM Weight: ~ .48 lbs.	
Temperature Range	-10C ~ +70C		0 30 60 90 120 150
Storage Temperature	-40C ~ +80C	1	Airflow (CFM)
Life (L10)	70,000 hours (40C)	m1	

Part Number	Speed (RPM)	Airflow (CFM)	Noise Level (dB)	Nominal Voltage	Voltage Range V DC	Rated Current	Rated Power	Max. Static Pressure (``H ₂ O)
OD8038-12HBXE10A	13,500	141	71	12 V DC	8 ~ 13.2	4.10 A	49 W	3.9
OD8038-48HBXE10A	13,500	141	71	48 V DC	28 ~ 56	1.14 A	55 W	3.9

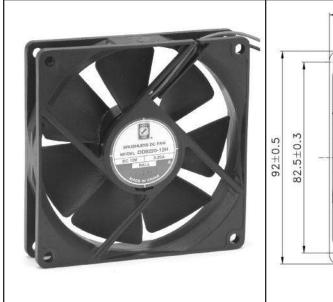


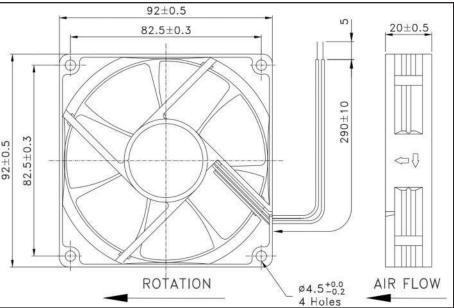


OD9220 Series



DC Fan - 12, 24V 92 x 20mm (3.6" x 0.79")





Frame & Impeller	PBT, UL94V-0 plastic	Available Options	0.15
Connection	2x Lead wires 24AWG	Tachometer - Open Collector	6 0.12
Motor	Brushless DC, auto restart, polarity protected	Weight: ~0.19 lbs	0.12 0.09
Bearing System	Dual ball bearing		
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	Life Expectancy (L10) 65,000 hours (45C)	0.06 Units 0.03
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp		
Temperature Range	-20C ~ +75C]	0.00 + 1 + 1 $0 8 16 24 32$
Storage Temperature	-40C ~ +80C	m1	Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Input Power (Watts)	Amps	Max. Static Pressure (``H ₂ O)
OD9220-12H*	2,700	32	33	12	8~16	0.25	0.13
OD9220-12M*	2,400	28	31	12	8~16	0.16	0.11
OD9220-24H*	2,700	32	33	24	22~28	0.14	0.13
OD9220-24M*	2,400	28	31	24	22~28	0.12	0.11

* Indicate "B" to specify Ball bearing or "S" to specify Sleeve bearing







OD9225 Series

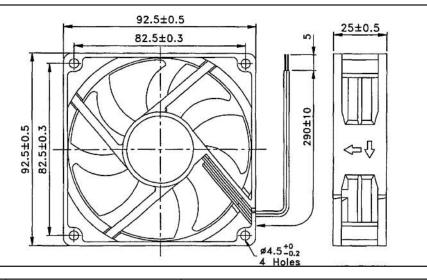


DC Fan - 12, 24, 48V 92 x 25 (3.62" x 1.00")

LL

60





Frame & Impeller	PBT, UL94V-0 plastic	Available Options:	A A A A A A A A A A A A A A A A A A A
Connection	2x Lead wires	Tachometer (FG) Alarm (RD) Thermal Control	0.20
Motor	Brushless DC, auto restart, polarity protected	Sleeve Bearing 05V IP55 Life Expectancy (L10)	0.10 ssure (H20)
Bearing System	Dual Ball	Ball Bearing 60,000 hours (L10 at 40C)	
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	Operating Temperature	0.05 static
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	Ball Bearing -20C ~ +75C	0.00 0 10 20 30 40 50
Storage Temperature	-40C ~ +80C	Weight: ~0.22 lbs ^{m1}	Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range	Amps	Max. Static Pressure ("H ₂ O)
OD9225-12HHB	3,300	60	40	12	10.8~13.2	0.29	0.17
OD9225-12HB	2,900	53	35	12	10.8~13.2	0.24	0.13
OD9225-12MB	2,400	44	31	12	10.8~13.2	0.15	0.09
OD9225-12LB	2,100	39	28	12	10.8~13.2	0.10	0.07
OD9225-12LLB	1,600	27	18	12	10.8~13.2	0.07	0.04
OD9225-24HB	2,900	53	35	24	22.6~26.4	0.14	0.13
OD9225-24MB	2,400	44	31	24	22.6~26.4	0.09	0.09
OD9225-24LB	2,100	39	28	24	22.6~26.4	0.05	0.07
OD9225-48HB	2,800	50	33	48	43.2~52.8	0.09	0.24

To indicate sleeve bearing replace "B" suffix with "S" in part number (30,000 hrs life expectancy) To indicate sealed sleeve bearing replace "B" with "SS" in part number (50,000 hrs life expectancy)



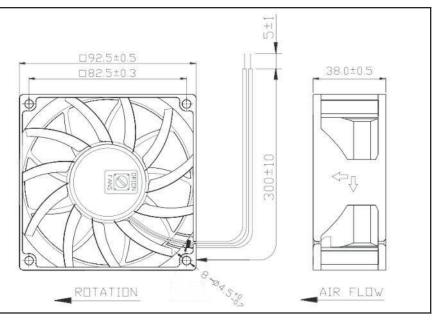


OD9238 Series



DC FAN, 12VDC 92 x 38mm (3.62" x 1.5")





Frame & Impeller	PBT, UL94V-0 plastic	Available Options	State Previour mmH/O u01(O 100, 307)
Connection	2x Lead wires *	IP55	
Motor	Brushless DC, auto restart, polarity protected.	Other speeds and voltages	5 .37496
Bearing System	Dual ball bearing	Alarm PWM Tachometer	6 23622
Insulation Resistance	Min. 10M at 500VDC		
Dielectric Strength	1 second at 500VAC max leakage 500 microamp	*Connection: Wire Leads - UL1007 24AWG Red(+), Black(-)	2- 15788
Temperature Range	-10C ~ +70C	Weight: .46 lbs.	2- 07874
Storage Temperature	-40C ~ +80C		0 0 72.2 44.4 66.6 88.8 111 cfm
Life (L10)	70,000 hours (40C)		Flownite m ² man 0 632 1.264 1.896 2.328

Model Number	Part Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range	Nominal Current	Input Power (Watts)	Max. Static Pressure (``H ₂ O)
OD9238-12MB	196131001	3,600	90	47	12	7~13.2 VDC	.45 A	12	.34
OD9238-24HB	196241001	4,000	90	50	24	17~26.4 VDC	.28 A	13.2	.40





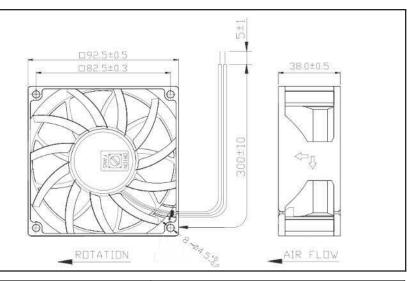
OD9238 VA Series

Vaneaxial, High Pressure



DC Fan - 12, 24, 48V 92 x 38mm (3.62" x 1.5")





Frame & Impeller	PBT, UL94V-0 plastic	Available Options:	0.80
Connection	2x Lead wires, 290mm, UL1007, AWG 24	Tachometer (FG) Alarm PWM	
Motor	Brushless DC, auto restart, polarity protected.	Super High Speed (150CFM)	
Bearing System	Dual ball bearing	Life Expectancy (L10)	
Insulation Resistance	Min. 10M at 500VDC	75,000 hours (40C)	
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	Weight: ~0.42 lbs.	÷ 0.20
Temperature Range	-20C ~ +75C		0.00 0 30 60 90 120 150
Storage Temperature	-40C ~ +80C	m1	Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Input Power (Watts)	Amps	Max. Static Pressure ("H ₂ O)
OD9238-12HBVXC	5,400	135	58	12	16	1.3	0.74
OD9238-12MBVXC	4,800	118	55	12	11	0.9	0.59
OD9238-12LBVXC	4,400	108	52	12	9	0.7	0.50
OD9238-24HBVXC	5,400	135	58	24	16	0.7	0.74
OD9238-24MBVXC	4,800	118	55	24	11	0.5	0.59
OD9238-24LBVXC	4,400	108	52	24	8	0.3	0.50
OD9238-48HBVXC	5,400	135	58	48	17	0.4	0.74
OD9238-48MBVXC	4,800	118	55	48	12	0.3	0.59
OD9238-48LBVXC	4,400	108	52	48	9	0.2	0.50



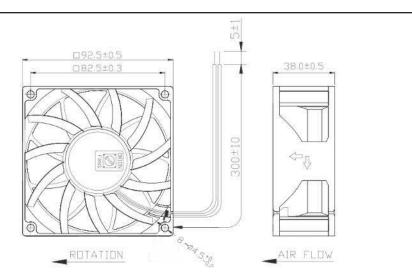


OD9238 XC Series



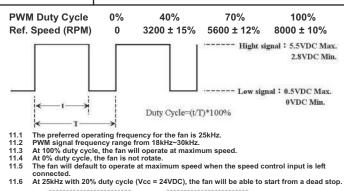
DC Fan - 12V, Tachometer, PWM 92 x 38mm (3.62" x 1.5")



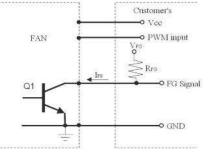


Frame & Impeller	PBT, UL94V-0 plastic	Available Options:		
Connection	4x Lead wires	*Connection: Red (+)		
Motor	Brushless DC, auto restart, polarity protected.	Black (-) White - Tachometer	("H2O)	2.00
Bearing System	Dual ball bearing	Open Collector Blue - PWM	1	1.50
Insulation Resistance	Min. 10M at 500VDC	UL1430, 24AWG	Pressure	1.00
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	~300mm Weight: ~ .56 lbs.	Static Pr	0.50
Temperature Range	-20C ~ +70C			
Storage Temperature	-40C ~ +80C			
Life Expectancy	50,000 hours (40C)	m1		Airflow (CFM)

Part Number	OD9238-12HHBXC10A
Nominal Voltage	12 VDC
Nominal Current	3.5 A
Rated Power	42 W
Rated Speed (RPM)	8,000
Airflow (CFM)	174
Noise Level (dB)	68
Max. Static Pressure	1.7 "H ₂ O



- 11.1 11.2 11.3 11.4 11.5
- 11.6



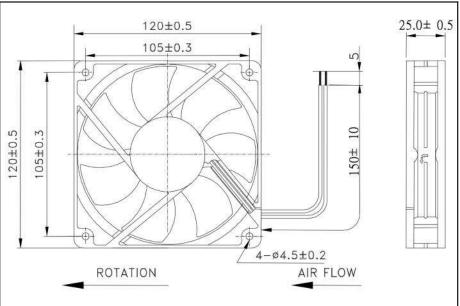


OD1225 Series



DC Fan - 12V, 24V 120 x 25mm (4.7" x 1.0")





Frame & Impeller	PBT, UL94V-0 plastic	Available Options	0.15
Connection	2x Lead wires 24AWG		
Motor	Brushless DC, auto restart, polarity protected	Tachometer, Alarm, Thermal control	0.12 Q Y 0.09
Bearing System	Dual ball bearing	IP55 Rated 48V	
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	Life Expectancy (L10) 65,000 hours (45C)	
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	Weight: ~0.35 lbs	0.03
Temperature Range	-20C ~ +75C		0.00 0 20 40 60 80 100
Storage Temperature	-40C ~ +80C	- m1	Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Input Power (Watts)	Amps (max)	Max. Static Pressure (``H ₂ O)
OD1225-12HB	2,200	89	39	12	5	0.37	0.14
OD1225-12MB	2,050	83	38	12	4	0.33	0.12
OD1225-12LB	1,800	72	34	12	3	0.24	0.10
OD1225-24HB	2,200	89	39	24	5	0.19	0.14
OD1225-24MB	2,050	83	38	24	4	0.17	0.12
OD1225-24LB	1,800	72	34	24	3	0.14	0.10

* Indicate "B" to specify Ball bearing or "S" to specify Sleeve bearing



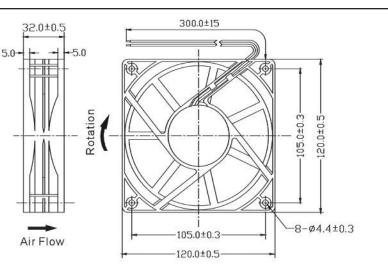


OD1232 Series



DC Fan - 12, 24, 48V 120 x 32mm (4.7" x 1.25")





Frame & Impeller	PBT, UL94V-0 plastic	Available Options: Tachometer (FG)				
Connection	2x Lead wires	Alarm (RD) Thermal Speed Control	0.40			
Motor	Brushless DC, auto restart, polarity protected	PWM Input Life Expectancy (L10) Ball Bearing 60,000 hours (L10 at 40C)	0.35 0.30 0.25			
Bearing System	Dual Ball or Sleeve	Sleeve Bearing 30,000 hours (L10 at 40C)	0.20 0.15			
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	<u>Operating Temperature</u> Ball Bearing -20C ~ +75C	0.10 0.05			
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	Sleeve Bearing -10C ~ +50C Weight: ~0.47 lbs m4	-10C ~ +50C	-10C ~ +50C	-10C ~ +50C	0.00 0 25 50 75 100 125
Storage Temperature	-40C ~ +80C		Airflow (CFM)			

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range	Amps	Max. Static Pressure ("H ₂ O)
OD1232-12H *	3,750	120	51	12	6~13.8	0.60	0.42
OD1232-12M *	3,300	107	48	12	6~13.8	0.50	0.33
OD1232-12L *	2,900	93	44	12	6~13.8	0.32	0.27
OD1232-24H *	3,750	120	51	24	12~27.8	0.28	0.42
OD1232-24M *	3,300	107	48	24	12~27.8	0.22	0.33
OD1232-24L *	2,900	93	44	24	12~27.8	0.16	0.27
OD1232-48H *	3,750	120	51	48	24~55.2	0.16	0.42
OD1232-48M *	3,300	107	48	48	24~55.2	0.15	0.33
OD1232-48L *	2,900	93	44	48	24~55.2	0.13	0.27

* Indicate "B" to specify Ball bearing or "S" to specify Sleeve bearing



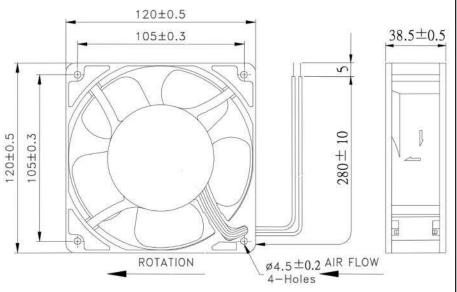


OD1238 Series



DC Fan - 12, 24, 48V 120 x 38mm (4.7" x 1.5")





Frame & Impeller	PBT, UL94V-0 plastic	Available Options Tachometer	Н И
Connection	2x Lead wires 24AWG	Alarm	0.25
Motor	Brushless DC, auto restart, polarity and IC protected	Thermal control IP55	g 0.20
Bearing System	Dual ball bearing	Sleeve Bearing	0.15
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	Life Expectancy (L10) 65,000 hours (45C)	
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	Weight: ~0.72 lbs	Static
Temperature Range	-20C ~ +75C		0.00
Storage Temperature	-40C ~ +80C	m1	Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Input Power (Watts)	Amps	Max. Static Pressure ("H ₂ O)
OD1238-12HB	2,800	105	43	12	6	0.50	0.24
OD1238-12MB	2,540	95	41	12	4	0.35	0.23
OD1238-12LB	1,950	73	33	12	3	0.24	0.13
OD1238-12LLB	1,500	53	27	12	2	0.16	0.09
OD1238-24HB	2,800	105	43	24	7	0.32	0.24
OD1238-24MB	2,540	95	41	24	6	0.23	0.23
OD1238-24LB	1,950	73	33	24	4	0.14	0.13
OD1238-48HB	2,800	105	43	48	10	0.20	0.24
OD1238-48MB	2,540	95	41	48	7	0.14	0.23
OD1238-48LB	1,950	73	33	48	5	0.10	0.13
OD1238-48LLB	1,500	53	27	48	4	0.08	0.09



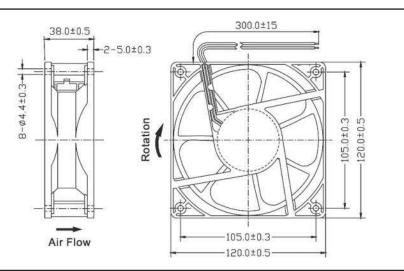


OD1238 Series



DC Fan - Super High Speed 120 x 38mm (4.7" x 1.5")





Frame & Impeller	PBT, UL94V-O plastic	Available Options	0.60
Connection	2x Lead wires 22AWG	Tachometer (Frequency Generator)	0.50
Motor	Brushless DC, auto restart, polarity protected	Alarm (Rotation Detector)	0.40
Bearing System	Dual ball bearing	Thermistor (Thermal Speed Control)	
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	Sleeve Bearing	0.30 0.20
Dielectric Strength	1 second at 500 VAC, max leakage - 500 MicroAmp	Weight ~ 0.74 lbs.	01.0 gtatic
Temperature Range	-20C ~ +75C		0.00 40 80 120 160
Life (10)	65,000 hours (45C)	m4	Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range (VDC)	Amps	Max. Static Pressure (``H ₂ O)
OD1238-12HHB	3,800	154	52	12	6 ~ 14	1.30	0.57
OD1238-24HHB	3,800	154	52	24	12 ~ 28	0.60	0.57
OD1238-48HHB	3,800	154	52	48	24 ~ 55	0.35	0.57





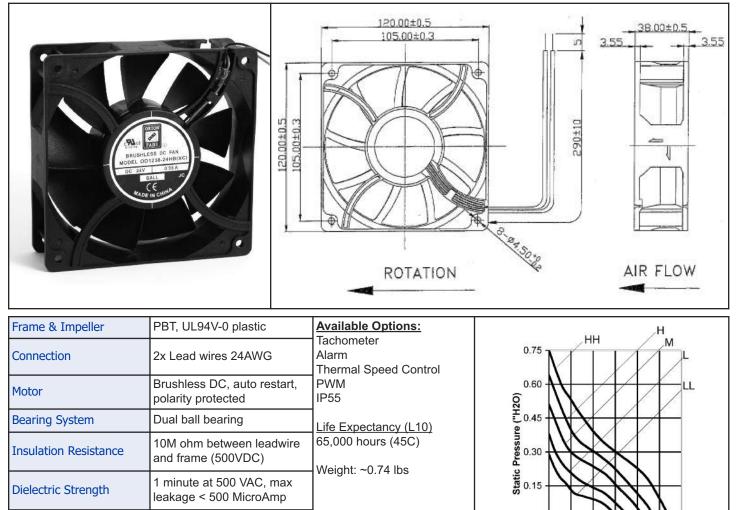
OD1238 XC Series



High Performance DC Fan 12, 24, 48V 120x38mm (4.7"x 1.5")

0.00

0 40 80



Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Input Power (Watts)	Amps	Max. Static Pressure (``H ₂ O)
OD1238-12HBXC	4,300	200	61	12	23	1.95	0.64
OD1238-12MBXC	3,800	175	57	12	18	1.50	0.51
OD1238-12LBXC	3,200	150	52	12	10	0.87	0.38
OD1238-24HBXC	4,300	200	61	24	19	0.98	0.64
OD1238-24MBXC	3,800	175	57	24	16	0.68	0.51
OD1238-24LBXC	3,200	150	52	24	9	0.42	0.38
OD1238-24LLBXC	2,800	130	48	24	7	0.30	0.29
OD1238-48HHBXC	4,700	220	63	48	32	0.68	0.75
OD1238-48HBXC	4,300	200	61	48	25	0.52	0.64
OD1238-48MBXC	3,800	175	57	48	17	0.36	0.51
OD1238-48LBXC	3,200	150	52	48	11	0.22	0.38
OD1238-48LLBXC	2,800	130	48	48	9	0.18	0.29

m1

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Temperature Range

Storage Temperature

-20C ~ +75C

-40C ~ +80C





120 160 200 240

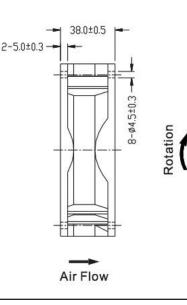
Airflow (CFM)

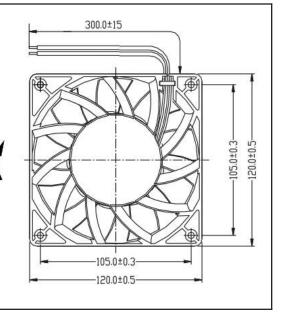
OD1238 VA Series DC Fan Vane Axial High Pressure



High Performance DC Fan 12, 24, 48V 120 x 38mm (4.7" x 1.5")







Frame & Impeller	PBT, UL94V-0 plastic	Available Options:	
Connection	2x Lead wires 24AWG	Tachometer Alarm Thermal Speed Control	2.00
Motor	Brushless DC, auto restart, polarity protected	PWM IP55	
Bearing System	Dual ball bearing	Salt Fog	2 1.20
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	Life Expectancy (L10) 65,000 hours (45C)	0.80 0.80
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	Weight: ~0.78 lbs	0.40 grație
Temperature Range	-20C ~ +75C]	0.00 0 50 100 150 200 250 300
Storage Temperature	-40C ~ +80C	m4	Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range	Amps	Max. Static Pressure ("H ₂ O)
OD1238-12HBVXC	5,000	226	65	12	6~14	3.6	1.35
OD1238-12MBVXC	4,000	189	59	12	6~14	2.0	0.85
OD1238-12LBVXC	3,000	140	52	12	6~14	1.5	0.46
OD1238-24HBVXC	5,000	226	65	24	12~28	1.7	1.35
OD1238-24MBVXC	4,000	189	59	24	12~28	1.1	0.85
OD1238-24LBVXC	3,000	140	52	24	12~28	0.6	0.46
OD1238-48HHBVXC	6,000	283	70	48	24~55	1.3	1.85
OD1238-48HBVXC	5,000	226	65	48	24~55	1.0	1.35
OD1238-48MBVXC	4,000	189	59	48	24~55	0.6	0.85
OD1238-48LBVXC	3,000	140	52	48	24~55	0.4	0.46

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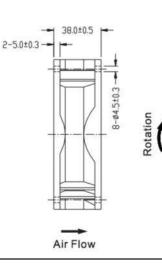


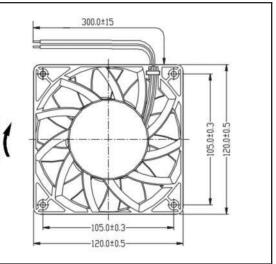
OD1238 XJ Series



DC Fan - 12V, 24V 120 x 38mm (4.7" x 1.5")







Frame & Impeller	PBT, UL94V-0 plastic	Available Options:	Fan Performance Curve
Connection	2x Lead wires	*Connection: Red (+)	Flow Rate (CMM5) 0.00 0.73 1.45 2.18 2.91 3.64 4.37 5.10 5.32 6.53 7.28 1.5 373
Motor	Brushless DC, auto restart, polarity protected.	Black (-)	1,4
Bearing System	Dual ball bearing	UL1430, 24AWG ~300mm	
Insulation Resistance	Min. 10M at 500VDC	Weight: ~ .83 lbs.	224 general 224 general 25 0.8
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	Tachometer - Open Collector PWM	0.5 224 107 224 107 224 107 107 107 107 107 107 107 107
Temperature Range	-10C ~ +70C		0.3 M 75
Storage Temperature	-40C ~ +80C		0.2
Life Expectancy	70,000 hours (40C)	m1	6.0 0 26 52 78 104 130 156 162 208 234 260 Flow Rate (CFM)

Part Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Nominal Voltage	Voltage Range (VDC)	Rated Power (Watt)	Rated Current	Max. Static Pressure (``H ₂ O)
OD1238-12HBXJ	6,000	250	69	12 V DC	7 ~ 13.2	44.4	3.70 A	1.48" H ₂ O
OD1238-24HBXJ	6,000	250	69	24 V DC	17 ~ 26.4	42	1.75 A	1.48" H ₂ O
OD1238-12MBXJ	5,000	207	63	12 V DC	7 ~ 13.2	27.6	2.30 A	1.04" H ₂ O



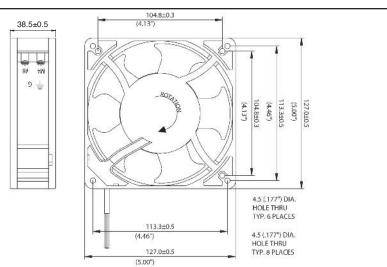


OD127AP Series



DC Fan - Aluminum Frame 12, 25, 48V 127 x 38.5mm (5.0" x 1.5")





Frame	Diecast Aluminum	Available Options:	
Impeller	PBT, UL94V-0 plastic	Tachometer (FG) Alarm (RD) Thermal Speed Control	0.50
Connection	2x Lead wires or terminals	PWM Input Sleeve bearing	
Motor	Brushless DC, auto restart, polarity protected	Life Expectancy (L10) Ball - 60,000 hrs (45C)	
Bearing System	Dual Ball bearing	Operating Temperature Ball: -20 ~ +75C	
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	Weight: ~0.93 lbs	
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp		0 25 50 75 100 125 150
Storage Temperature	-40C ~ +80C	m0	Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range	Amps	Max. Static Pressure ("H ₂ O)
OD127AP-12HB	3,200	140	46	12	9~13.8	0.88	0.41
OD127AP-12MB	2,600	108	38	12	9~13.8	0.50	0.33
OD127AP-12LB	1,900	86	30	12	9~13.8	0.20	0.23
OD127AP-24HB	3,000	140	46	24	12~27.6	0.43	0.41
OD127AP-24MB	2,600	108	38	24	12~27.6	0.23	0.33
OD127AP-24LB	1,900	86	30	24	12~27.6	0.15	0.23
OD127AP-48HB	3,200	140	46	48	26~56	0.22	0.41
OD127AP-48MB	2,600	108	38	48	26~56	0.10	0.33
OD127AP-48LB	1,900	86	30	48	26~56	0.07	0.33



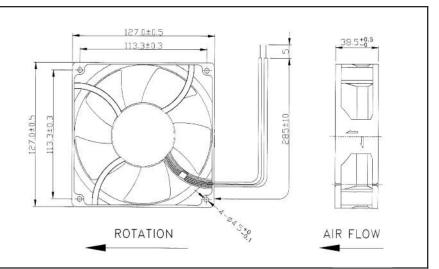


OD127 Series



DC Fan - 12, 24, 48V 127 x 38.5mm (5.0" x 1.5")



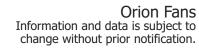


Frame & Impeller	PBT, UL94V-0 plastic	Available Options:	(HHXC) (XC) (HH)
Connection	2x Lead wires	Tachometer Alarm Thermal Speed Control	0.75 (H)
Motor	Brushless DC, auto restart, polarity protected	PWM Input Life Expectancy (L10)	(0,60 0.45 0.45 (L))
Bearing System	Dual Ball bearing	Ball - 60,000 hrs (45C)	₽° 0.30
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	<u>Operating Temperature</u> Ball: -20 ~ 75C	Static
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	Weight: ~.82 lbs	
Storage Temperature	-40C ~ +80C	m1	Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range	Amps	Max. Static Pressure ("H ₂ O)
OD127-12HHB	3,500	193	56	12	8~14	1.2	0.46
OD127-12HB	2,950	161	53	12	8~14	0.78	0.35
OD127-24HHB	3,500	193	56	24	11~28	0.60	0.46
OD127-24HB	2,950	161	53	24	11~28	0.41	0.35
OD127-48HHBXC	4,500	242	64	48	22~55	0.70	0.63
OD127-48HBXC	4,100	226	63	48	22~55	0.55	0.55
OD127-48HHB	3,500	193	56	48	22~55	0.34	0.46
OD127-48HB	2,950	161	53	48	22~55	0.23	0.35
OD127-48LB	2,500	133	48	48	22~55	0.17	0.23
OD127-48LLB	2,000	107	41	48	22~55	0.12	0.16



A TÜV

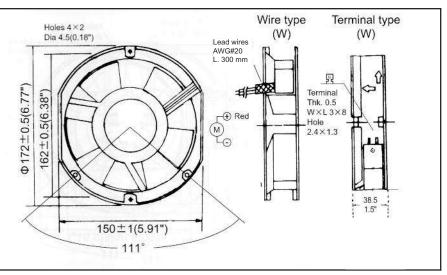


OD172SAPL Series



DC Fan - 12, 24, 48V 172 x 150x38mm (6.7" x 5.9"x 1.5")





Frame	Diecast Aluminum	Available Options:	High
Impeller	PBT, UL94V-0 plastic	Tachometer Alarm	0.75 Medium
Connection	2x Lead wires, AWG20 or terminals	Thermistor Speed Control PWM Speed Control Constant Speed	0.60
Motor	Brushless DC, auto restart, polarity protected	Life Expectancy (L10) Ball - 60,000 hrs (45C)	0.00 0.45
Bearing System	Dual ball bearing		
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	<u>Operating Temperature</u> Ball: -20C ~ +75C	u.15
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	Weight: ~1.7 lbs	
Storage Temperature	-40C ~ +80C	m0	Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range	Amps	Max. Static Pressure (``H ₂ O)
OD172SAPL-12H *	4,000	225	55	12	7~14	1.99	0.73
OD172SAPL-12M *	3,300	190	45	12	7~14	1.10	0.51
OD172SAPL-12L *	2,000	120	40	12	7~14	0.45	0.35
OD172SAPL-24H *	4,000	225	55	24	15~27	0.97	0.73
OD172SAPL-24M *	2,800	190	45	24	15~27	0.52	0.51
OD172SAPL-24L *	2,000	120	40	24	15~27	0.20	0.35
OD172SAPL-48H *	4,000	225	55	48	28~53	0.48	0.73
OD172SAPL-48M *	2,800	190	45	48	28~53	0.30	0.51
OD172SAPL-48L *	2,000	120	40	48	28~53	0.12	0.35

* Indicate "B" for wire leads or "TB" for Terminals



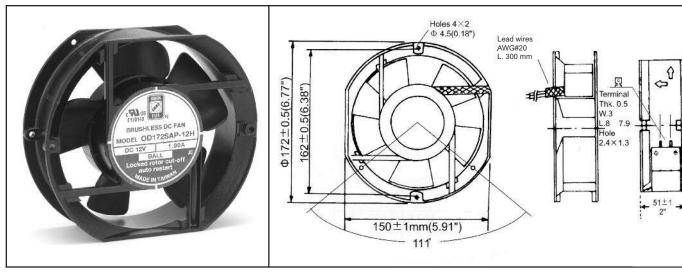


OD172S Series



DC Fan - 12, 24, 48V 172 x 150 x 51mm (6.7" x 5.9" x 2.0")

7.9(0.31")



Frame	Diecast Aluminum	Available Options:	Extra High / Medium
Impeller	PBT, UL94V-0 plastic	Tachometer Alarm	
Connection	2x Lead wires, AWG20 or terminals	Thermistor Speed Control PWM Speed Control	0.90
Motor	Brushless DC, auto restart, polarity protected	<u>Life Expectancy (L10)</u> Ball - 40,000 hrs (60C)	Q 0.70 H_0.60 Big 0.50
Bearing System	Dual ball bearing	Operating Temperature	
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	Ball: -20C ~ +75C Weight: ~1.8 lbs	10.30 10.20
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp		0.10 0 50 100 150 200 250 300
Storage Temperature	-40C ~ +80C	m0	Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range	Amps	Max. Static Pressure (``H ₂ O)
OD172SAP-12HH *	3,800	290	56	12	8~14	2.90	0.93
OD172SAP-12H *	3,200	230	52	12	8~14	1.90	0.75
OD172SAP-12M *	2,500	180	42	12	8~14	1.10	0.51
OD172SAP-12L *	1,600	125	32	12	8~14	0.45	0.35
OD172SAP-24HH *	3,900	300	57	24	15~28	1.40	0.98
OD172SAP-24H *	3,300	235	52	24	15~28	0.97	0.79
OD172SAP-24M *	2,500	180	42	24	15~28	0.52	0.51
OD172SAP-24L *	1,600	125	32	24	15~28	0.20	0.35
OD172SAP-48HH *	3,900	300	57	48	22~53	0.69	0.98
OD172SAP-48H *	3,300	235	52	48	22~53	0.48	0.79
OD172SAP-48M *	2,500	180	42	48	22~53	0.30	0.51
OD172SAP-48L *	1,600	125	32	48	22~53	0.12	0.35

* Indicate "B" for wire leads or "TB" for Terminals

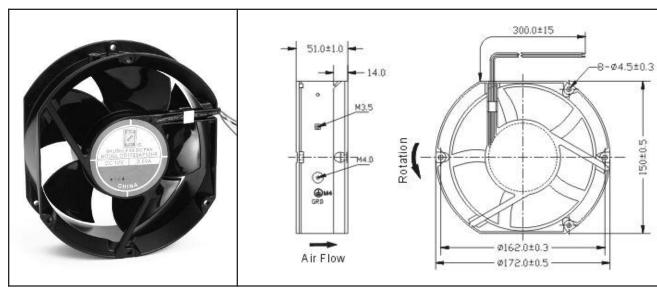




OD172S XC Series



DC Fan - High Performance 12, 24 48V 172x150x51mm (6.7"x 5.9"x 2.0")



Frame	Diecast Aluminum	<u>Available Options:</u> Alarm	12H 24H & 48H 12M
Impeller	PBT, UL94V-2 plastic	Tachometer PWM	1.40
Connection	2x Lead wires, AWG22	Temperature Range -20C ~ +75C	<u>Q</u> <u>1.20</u> <u>1.20</u>
Motor	Brushless DC, auto restart, polarity protected	Life Expectancy (L10) 65,000 hrs (45C)	U.00 U.80 U.80 U.80 U.80
Bearing System	Dual ball bearing	Weight: ~1.63 lbs	
Insulation Resistance	10M ohm between leadwire and frame (500VDC)		0.20
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp		0.00 + + + + + + + + + + + + + + + + + +
Storage Temperature	-40C ~ +80C	m4	

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range	Amps	Max. Static Pressure (``H ₂ O)
OD172SAP-12HBXC	3,900	277	62	12	9~14	3.50	1.14
OD172SAP-12MBXC	3,400	232	59	12	9~14	2.40	0.92
OD172SAP-24HBXC	4,600	307	67	24	12~28	2.30	1.60
OD172SAP-48HBXC	4,600	307	67	48	24~55	1.20	1.60



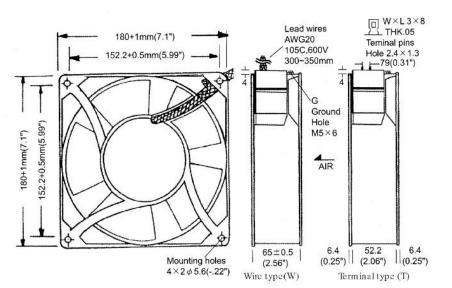


OD180APL Series



DC Fan - 12, 24, 48V 180 x 65mm (7.1" x 2.6")





Frame & Impeller	Diecast Aluminum (Frame) PBT, UL94V-0 - (Impeller)	Available Options:	H M L
Connection	2x Lead wires 20AWG or ter- minals	Alarm Tachometer PWM	<u>Ω</u> <u>1.20</u> <u>Ω</u> <u>1.00</u>
Motor	Brushless DC, auto restart, rotor lock & polarity protected	Thermal Control	₽ 0.80
Bearing System	Dual ball bearing	Life Expectancy (L10) 60,000 hrs (40C)	
Insulation Resistance	10M ohm between leadwire and frame (500VDC)		
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	Weight: ~3.2 lbs	
Temperature Range	-20C ~ +75C		0 80 160 240 320 400 480
Storage Temperature	-20 ~ +80C	m0	Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Input Power (Watts)	Amps	Max. Static Pressure (``H ₂ O)
OD180APL-12H*B	3,400	460	63	12	50.4	4.20	1.10
OD180APL-12M*B	2,800	375	53	12	23	1.90	0.70
OD180APL-12L*B	2,200	300	46	12	13.2	1.10	0.58
OD180APL-24H*B	3,500	470	65	24	50.4	2.10	1.20
OD180APL-24M*B	2,800	375	53	24	24	0.97	0.70
OD180APL-24L*B	2,200	300	46	24	13	0.52	0.58
OD180APL-48H*B	3,500	470	65	48	49.4	1.03	1.20
OD180APL-48M*B	2,800	375	53	48	23.5	0.48	0.70
OD180APL-48L*B	2,200	300	46	48	14.5	0.30	0.58

* Insert letter "T" to indicate terminal type.



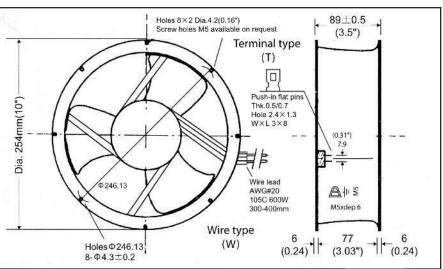


OD254 Series



DC Fan - 12, 24, 48V 254x89mm (10.0"x 3.50")





Frame	Diecast Aluminum	Available Options:	/ High
Impeller	PBT, UL94V-0 plastic	Tachometer Alarm	0.90 - Medium
Connection	2x Lead wires 20AWG or terminals	Thermistor Speed Control PWM Speed Control	0.80
Motor	Brushless DC, auto restart, impedance and polarity protected	Life Expectancy (L10) Ball - 40,000 hrs (60C)	(0,70 H.) 0.60 0.50 0.40
Bearing System	Ball bearing	<u>Operating Temperature</u> Ball: -20C ~ +75C	
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	Weight: ~4.0 lbs	ting 0.30 0.20 0.10
Dielectric Strength	1 second at 500 VAC, max leakage < 500 MicroAmp		0.00 0 150 300 450 600 750 900
Storage Temperature	-40C ~ +90C	m0	Airflow (CFM)

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range (VDC)	Input Power (Watt)	Amps	Max. Static Pressure (``H ₂ O)
OD254AP-12H *	2,400	830	60	12	9~13	65	5.4	0.78
OD254AP-12M *	2,000	690	47	12	9~13	23	1.9	0.58
OD254AP-12L *	1,650	550	39	12	8~14	13	1.1	0.37
OD254AP-24H *	2,500	850	64	24	16~27	64	2.65	0.83
OD254AP-24M *	2,000	690	47	24	16~27	24	0.97	0.58
OD254AP-24L *	1,500	550	39	24	16~27	13	0.52	0.37
OD254AP-48H *	2,500	850	64	48	24~53	62	1.3	0.83
OD254AP-48M *	2,000	690	47	48	24~53	24	0.48	0.58
OD254AP-48L *	1,500	550	39	48	24~56	15	0.30	0.37

* Indicate "B" for wire leads or "TB" for Terminals





OD280 Series					ORION FANS		DC Fan - 280x89mm	- 12, 24, 4 n (11.0″x 1		
				Se All	← 20 ← 25	97(3.82") 134(5.28") + 08+0.5(8.18" 7+-0.5(10.12) -0.5mm(11.0)	tia Th Hc Wire Lead wires AWG22 300mm+10mr <u>Wire type</u>	2 2 2 (0.3 2 (0.3 2 (0.3 2 (0.3 2 (0.3 2 (0.3 2 (0.3 2 (0.3 2 (0.3 2 (0.5 2 (0.5 (0.2 1'') 2 (0.5))) (0.5 (0.5)) (0.5) (0.5)) (0.5) (0.5)) (0.5) (0.5) (0.5)) (0.5) (0.5)) (0.5) (0.5)) (0.5) (0.5)) (0.5)) (0.5) (0.5)	Airflow Airflow	
Frame	Dieca	st Aluminum			vailable Options	<u>:</u>	0.90			
Impeller		Glass Fiber reinforced ther- noplastic.			Tachometer Alarm Thermistor					
Connection	Termir	rminals or lead wires			Thermistor Operating Temperature Ball Bearing					
Motor	sor co Locke	Programmable microproces- sor control Brushless DC, Locked rotor and polarity protected.			.5C ~ +65C fe Expectancy all Bearing) at 25C)	0.50 0.40 0.30	\mathbf{X}		
Bearing System	Dual b	oall		Ball Bearing 85,000 hours (L10 at 35C) 85,000 hours (L10 at 35C)					\mathbf{X}	
Storage Temperature	-25 ~	+80C		vv	/eight: ~6.8 lbs.		0.10	$\pm \lambda$	\mathbf{X}	
Dielectric Strength		ute at 500 V/ ge < 500 Mic		m	0		0	300 600 Airflow (Cl	900 1200 F M)	
Model Number		Speed (RPM)	Airflow (CF	·M)	Noise (dB)	Volts DC	Voltage Range	Watts	Max. Static Pressure ('`H ₂ O)	
OD280-12HB		2,550	1,200		72	12	9 ~ 13.5	135	0.90	
OD280-12MB			950		56	12	9 ~ 13.5	90	0.65	
OD280-12LB 1,800		780		48	12	9 ~ 13.5	62	0.55		
OD280-24HB 2,550		1,200		72	24	18 ~ 27	135	0.90		
OD280-24MB 2,200		950		56	24	18 ~ 27	90	0.65		
OD280-24LB		1,800	780		48	24	18 ~ 27	62	0.55	
OD280-48HB	80-48HB 2,550 1,2		1,200		72	48	24 ~ 55	135	0.90	
OD280-48MB		2,200	950		56	48	24 ~ 55	90	0.65	
OD280-48LB 1,800		780		48	48	24 ~ 55	62	0.55		

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Long Life Low Cost

The Challenger series provides a unique patented sealed sleeve bearing system that has a life expectancy in excess of 50,000 hours. It is a very cost effective product for the cost conscious OEM

Size	120 x (4.7">			25mm (1.0")		25mm x1.0")	80 x 2 (3.2")	
Part Num- ber	OD1238-12HSS	OD1238-24MSS	OD1225-12HSS	OD1225-24HSS	OD9225-12HSS	OD9225-24HSS	OD8025-12HSS	OD8025-24HSS
Nominal Voltage	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC
Nominal Current	0.50A	0.23A	0.44A	0.24A	0.25A	0.15A	0.25A	0.16A
Rated Power	4.7W	4.8W	5.3W	5.8W	2.9W	3.4W	2.9W	2.4W
Rated Speed (RPM)	2,800	2,540	2,200	2,200	2,900	2,900	3,100	3,100
Airflow (CFM)	105	96	85	85	52	52	40	40
Noise Level (dB)	47	47	39	39	35	35	34	34
Max. Static Pressure	0.27" H ₂ O	0.23" H ₂ O	0.14" H ₂ O	0.14" H ₂ O	0.13" H ₂ O	0.13" H ₂ O	0.16" H ₂ O	0.16" H ₂ O
Photo								
Size		25mm × 1.0″)		20mm x 0.8″)	40 x 10mm (1.6" x 0.4")		Frame & Im- peller	PBT, UL94V-2 plastic
Part Num- ber	OD6025-12HSS	OD6025-24HSS	OD4020-12HSS	OD4020-24HSS	OD4010-12HSS	OD4010-24HSS	Connection	2x Lead wires
Nominal Voltage	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC		
Nominal Current	0.23A	0.15A	0.11A	0.09A	0.10A	0.09A	Motor	Brushless DC, auto restart,
Rated Power	2.8W	3.6W	1.2W	1.7W	1.2W	1.4W		polarity pro- tected
Rated Speed (RPM)	4,600	4,600	7,800	7,800	6,000	6,000	Bearing Sys- tem	Sealed Sleeve
Airflow (CFM)	25	25	9.0	9.0	6.7	6.7	Insulation	10M ohm be- tween lead-
Noise Level (dB)	35	35	32	32	25	25	Resistance	wire and frame (500VDC)
Max. Static Pressure	0.20" H ₂ O	0.20" H ₂ O	0.30" H ₂ O	0.30" H ₂ O	0.10" H ₂ O	0.10" H ₂ O	Dielectric Strength	1,500VAC / 1 min.
Photo		3			ť	2	Operating Temperature	-10C ~ +70C





Special Function Info

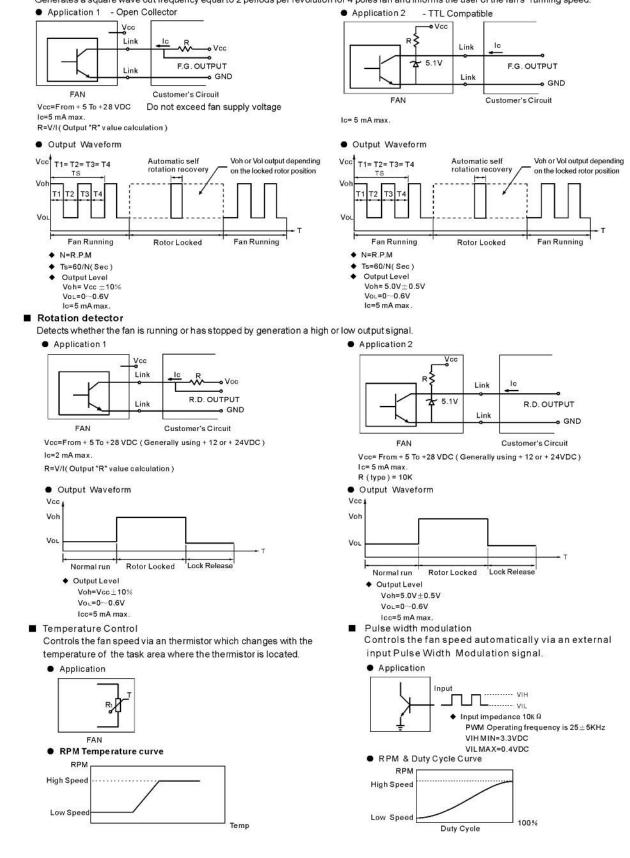


DC Fan Option Diagrams

Function

Frequency Generator

Generates a square wave out frequency equal to 2 periods per revolution for 4 poles fan and informs the user of the fan's running speed.





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OA600ST Series 432x338x44.5mm

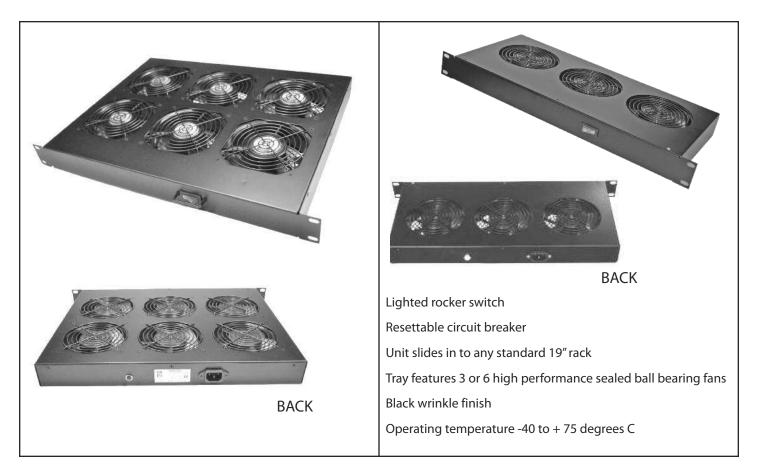
(17"x 13.3"x 1.75")

115V, 230V



OA300ST Series 432x203x44.5mm

(17"x 8"x 1.75") 115V, 230V



Part Number	OA600ST-120	OA600ST-230	OA300ST-120	OA300ST-230
No. of Fans	6	6	3	3
Bearing System	Dual Ball Bearing	Dual Ball Bearing	Dual Ball Bearing	Dual Ball Bearing
Nominal Voltage (60Hz)	115 VAC	230 VAC	115 VAC	230 VAC
Input Power	90 Watts	90 Watts	45 Watts	45 Watts
Rated Speed (RPM)	3,000	3,000	3,000	3,000
Airflow (CFM)	620	620	310	310
Noise Level (dB)	56	56	53	53
Life Expectancy	60,000 hrs (25C)	60,000 hrs (25C)	60,000 hrs (25C)	60,000 hrs (25C)
Connection	2M Modular Power Cord	2M Modular Power Cord	2M Modular Power Cord	2M Modular Power Cord





OMB5200 Series



AC Fan Tray - 115V & 230V 432 x 348 x 132.6mm (17"x 13.7"x 5.22")



Unit slides in to any standard 19" rack.

Tray features 2 high performance sealed ball bearing fans.

Power cord configured for standard 115 VAC or 230 VAC connection.

Part Number	OMB5200-120	OMB5200-230
No. of Fans	2	2
Bearing System	Dual Ball Bearing	Dual Ball Bearing
Nominal Voltage (60Hz)	115 VAC	230 VAC
Input Power	70 Watts	70 Watts
Rated Speed (RPM)	3,500	3,500
Airflow (CFM)	340	340
Noise Level (dB)	57	57
Life Expectancy	60,000 hrs (25C)	60,000 hrs (25C)
Connection	1.8M Power Cord	1.8M Power Cord

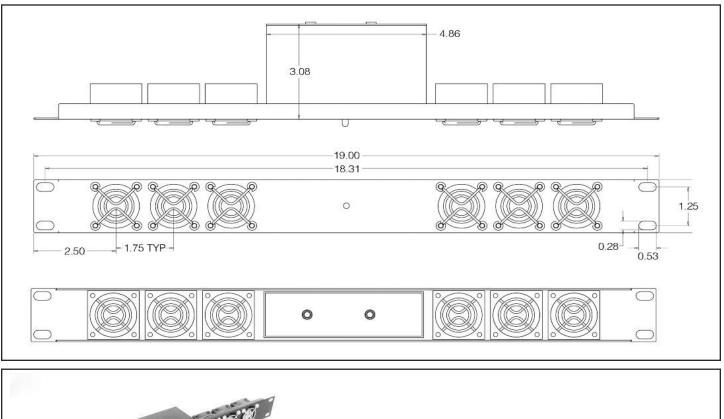




OA406 Fan Tray



Universal Input 90 - 264VAC



- 0.00	
Description	 Universal 90-264VAC Input external power supply 1U high, panel mount configuration Either N. American NEMA 5-15P or IEC320-C14 connection High Airflow 160CFM Bi-color LED alarm indicator lamp Optional redundant 2nd power supply available Redundant power switching is seamless and automatic Redundant power input may be from customers 12VDC supply Sturdy 16 Ga Powder Coated Steel Construction
Part Numbers	OA406: Power Input NEMA 5-15 plug OA406-IEC: C14 power supply plug OA406-DUAL: With redundant power supply OA406-IEC-DUAL: With redundant power supply, international version OA406-PS: Add-on power supply. Converts OA406 to DUAL OA406-IEC-PS: Add-on power supply. International version

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Environment Responsive Smart Fan Tray 432 x 203 x 44.5mm



OA300ST Short Tray

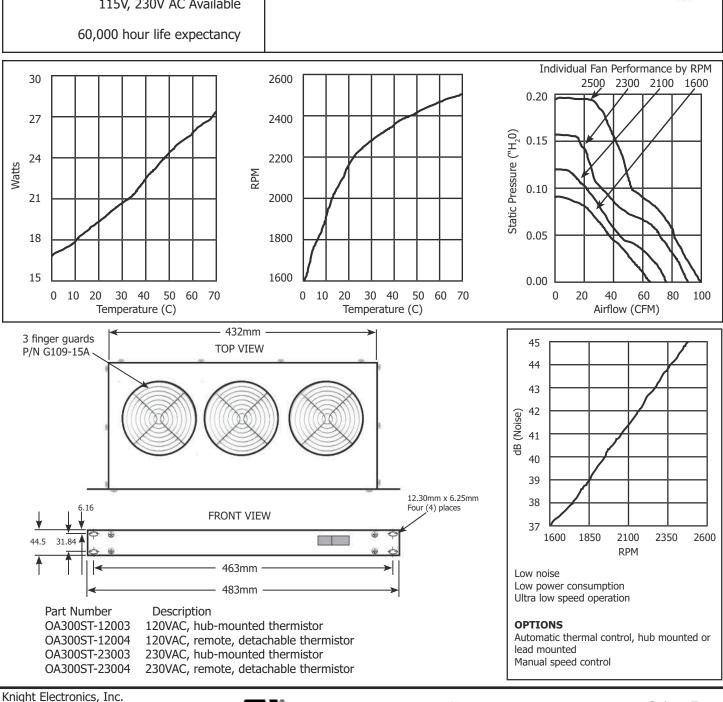
The OA300ST Smart fan tray saves energy coosts by sensing its environment and adjusting its performance

Modular power cord, resettable circuit breaker and lighted rocker

> Speed: 1,600 ~ 2,500 RPM Air Flow: 190 ~ 300

Slides easily into any standard 19" rack

115V, 230V AC Available



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Orion Fans Information and data is subject to change without prior notification.

ThermalCare Fan Trays

Part Number

FTA-03115-014(BK)

AC FAN TRAYS

Model Number

OA300S



Fans

3

Voltage

CFM

330

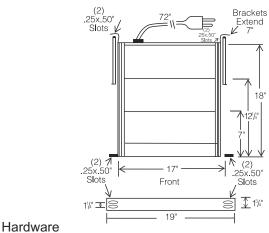
AC and DC Fan Trays
UL and cUL Listed



basic fan tray specifications...

Frame

Heavy Duty steel construction with extruded aluminum side rails. Black color standard, gray available by special order.



EZ-mount clip nuts and fasteners

Configuration

Standard trays have 3, 6 or 9 fans installed. Our ADD-a-MODULE feature allows the user to easily increase or decrease the amount of cooling in 3-fan increments.

Options

Ultrashort 3-fan Tray available. Lighted on/off rocker switch. Dual voltage selector switch. Fan monitor and alarm. MEDIUM AND LOW SPEED FANS CAN BE SUBSTITUTED FOR LOW-NOISE APPLICATIONS. Ultra high speed fans are available.

We use only top quality, ball bearing ORION FANS in our fan tray assemblies. For DC applications plastic fans are standard however diecast aluminum fans can be substituted on request. (Minimums apply.)

We can customize our fan trays to perform virtually any function required. If you need something which does not appear in this catalog just let us know. Our sales engineers will be happy to discuss your needs and provide a solution.

OA600S	FTA-06115-014(BK)	1	6	660	
OA300	FTA-03115-018(BK)	115VAC	3	330	
OA300-A	expansion module	- IISVAC	3	330	
OA600	FTA-06115-018(BK)	1	6	660	
OA900	FTA-09115-018(BK)	1 1	9	990	
OA302S	FTA-03220-014(BK)		3	330	
OA602S	FTA-06220-014(BK)	6	660		
OA302	02 FTA-03220-018(BK) 230VAC				
OA302-A	expansion module	230VAC	3	330	
OA602	FTA-06220-018(BK)	1	6	660	
OA902	FTA-09220-018(BK)	1	9	990	
	DUAL VOLTAGE AC 1	TRAYS			
OA300S-DV	FTA-03DV-014(BK)		3	330	
OA600S-DV	FTA-06DV-014(BK)	7	6	660	
OA300-DV	FTA-03DV-018(BK)	115/230VAC	3	330	
OA300DV-A	expansion module	-115/250VAC	3	330	
OA600-DV	FTA-06DV-018(BK)	1	6	660	
OA900-DV	FTA-09DV-018(BK)	1	9	990	
	DC FAN TRAYS	5			
OD300S-12	FTD-03012-014(BK)		3	330	
OD600S-12	FTD-06012-014(BK)	1	6	660	
OD300-12	FTD-03012-018(BK)	12VDC	3	330	
OD300-12-A	expansion module		3	330	
OD600-12	FTD-06012-018(BK)	1	6	660	
OD900-12	FTD-09012-018(BK)	1	9	990	
OD300S-24	FTD-03024-014(BK)		3	330	
OD600S-24	FTD-06024-014(BK)	1 1	6	660	
OD300-24	FTD-03024-018(BK)	24VDC	3	330	
OD300-24-A	expansion module	24VDC	3	330	
OD600-24	FTD-06024-018(BK)	1	6	660	
OD900-24	FTD-09024-018(BK)	1	9	990	
OD300S-48	FTD-03048-014(BK)		3	330	
	D300-48-A expansion module		3	330	
OD300-48-A					
OD300-48-A OD600S-48	FTD-06048-014(BK)	401/02	6	660	
	-	- 48VDC	6 3	660 330	
OD600S-48	FTD-06048-014(BK)	- 48VDC			

Fan trays are UL listed by the part number only. Model numbers are assigned as configuration descriptors only and do not affect UL certifications.







MAXIMUM FLEXIBILITY



Add-A-Module for additional cooling quickly and simply



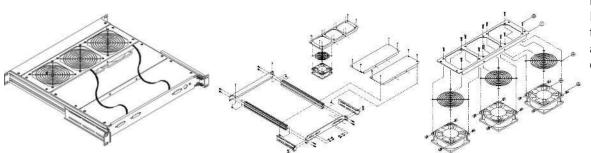
115VAC



230VAC



DC Power



ORION STANDARD TRAY L=19" W=19" D=1.75" with IEC320, C14-type connector on back. 115/230 voltage selector included with dual voltage tray.



ORION SHORT TRAY L=14" W=19" D=1.75". Optional lighted on/off rocker with IEC320, C14type connector on back. 115/230 voltage selector included with dual voltage tray.



EXPANSION MODULE Maximum flexibility - minimum effort. Add or subtract fan modules quickly and easily as your cooling needs change. Overall dimensions16.5"x 5.25"x 1.75"

Standard trays are populated with high speed, ball bearing fans. We can substitute virtually any 120mm AC or DC fan for your special project. Just let your sales engineer know what your requirements are and he or she will be happy to provide a solution.

Custom Trays

ORION FANS fan trays are available in dozens of stock configurations. If you cannot find what you are looking for give us a call. We can design and build your trays from scratch or we can help you come up with solutions for your toughest problems.



Dual Voltage Selector



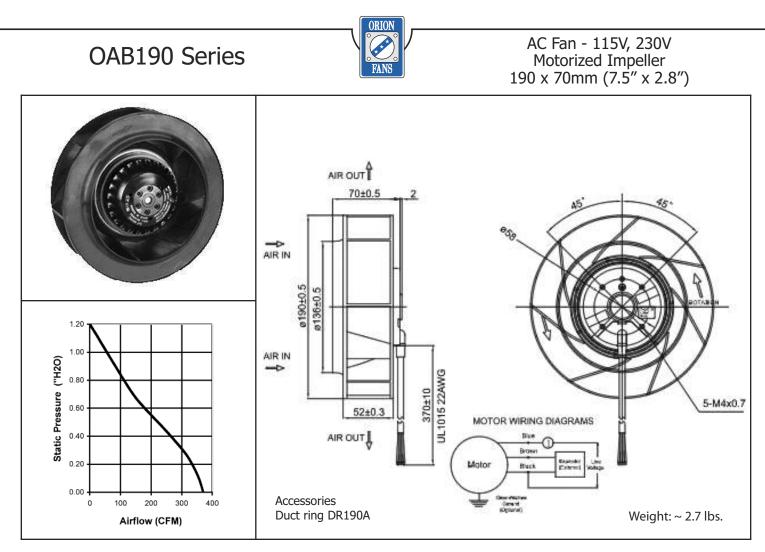
Lighted on/off rocker







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Part Number	OAB190-11-1	OAB190-22-1	Frame	Diecast Aluminum
Nominal Voltage	115 VAC	230 VAC	Impeller	UL94V-0 Thermoplastic
Voltage Range	100 ~ 125VAC	200 ~ 240VAC	Connection	2x Lead wires
			Motor	AC, Shaded Pole, thermally protected.
Nominal Current	0.54A	0.30A	MOLOI	CAPACITOR
Locked Current	0.91A	0.45A	Bearing System	Dual ball bearing
Rated Power	65W	72W	Insulation	>100M ohm between
Rated Speed (RPM)	2,700	2,700		leadwire and frame (500VDC)
Airflow (CFM)	370	370	Dielectric Strength	1,500VAC for 1 minute
Noise Level (dB)	63	63	Temperature Range	-40C ~ +60C
			Storage Temp	-40C ~ +80C
Max. Static Pressure	1.2″ H ₂ O	1.2″ H ₂ O	Life (L10)	40,000 hrs (L10, 40C)

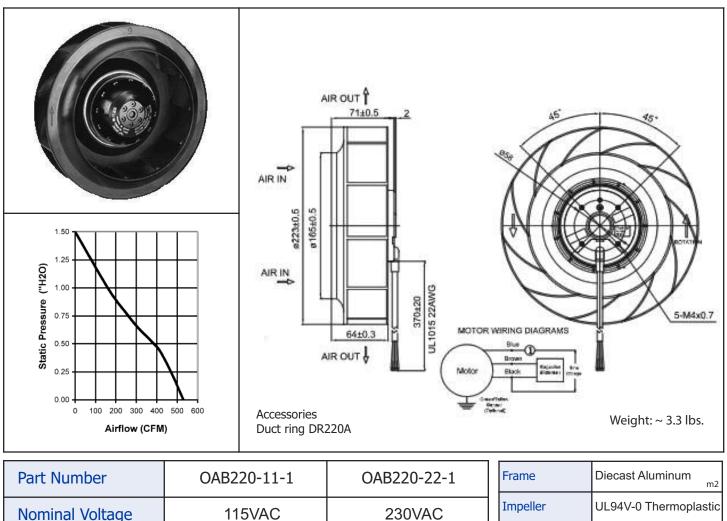




OAB220 Series



AC Fan - 115V, 230V Motorized Impeller 190 x 70mm (7.5" x 2.8")



Nominal Voltage	115VAC	230VAC	Impeller
Voltage Range	100 ~ 125VAC	200 ~ 240VAC	Connection
Nominal Current	0.98A	0.50A	Motor
Locked Current	1.22A	0.58A	Bearing Sy
Rated Power	117W	117W	
Rated Speed (RPM)	2,650	2,650	Insulation Resistance
Airflow (CFM)	530	530	Dielectric Strength
Noise Level (dB)	70	70	Temperatu Range
		4 5" 11 0	Storage Te
Max. Static Pressure	1.5" H ₂ O	1.5" H ₂ O	Life (L10)

Frame	Diecast Aluminum m2		
Impeller	UL94V-0 Thermoplastic		
Connection	2x Lead wires		
Motor	AC, Shaded Pole, themally protected. CAPACITOR INCLUDED		
Bearing System	Dual ball bearing		
Insulation Resistance	>100M ohm between leadwire and frame (500VDC)		
Dielectric Strength	1,500VAC for 1 minute		
Temperature Range	-40C ~ +60C		
Storage Temp	-40C ~ +80C		
Life (L10)	40,000 hrs (L10, 40C)		



			ORION		
OAB225 Series				Blower, ball bearing, 115, 230V 225 x 99mm (8.86" x 3.9")	
		Ir (2) Access	AIR OUT 99±0.5 99±0.5 99±0.5 0 0 0 0 0 0 0 0 0 0 0 0 0		
Backwards Curved	Impeller		Insulation Housing: AC1500V / 1 minute	* 60Hz → 50Hz	
Frame & Impeller Aluminum alloy			Insulation Resistance: > 100 M ohms DC500V Operating Temperature -40 C ~ +60C Life Expectancy 40,000 hours (L10, 40C) Ball bearing m0	2.5	
Connection	ctionLead WiresAC Capacitor drive 16/250mF (115V) 4/450mF (230V)				
Motor					
Bearing System	Dual Ball			0 100 200 300 400 500 600 700 800 CFM	
Part Number		OAB2259	9-11-1B	OAB22599-22-1B	
Nominal Voltage		115 VAC	(50/60 Hz)	230 VAC (50/60 Hz)	
Nominal Current	(Amps)	1.16 / 1.41		0.57 / 0.70	
Locked Current (Amps)		2.22 / 2.30		1.14 / 1.15	
Rated Power		128 / 160 W		126 / 157 W	
Rated Speed (RPM) 2		2,650 / 2,	950	2,650 / 2,950	
Airflow (CFM) 7		700 / 770)	700 / 770	
Noise Level (dB)		69 / 71		69 / 71	
Max. Static Pressure		2.0 / 2.6"	H ₂ O	2.0 / 2.6" H ₂ O	

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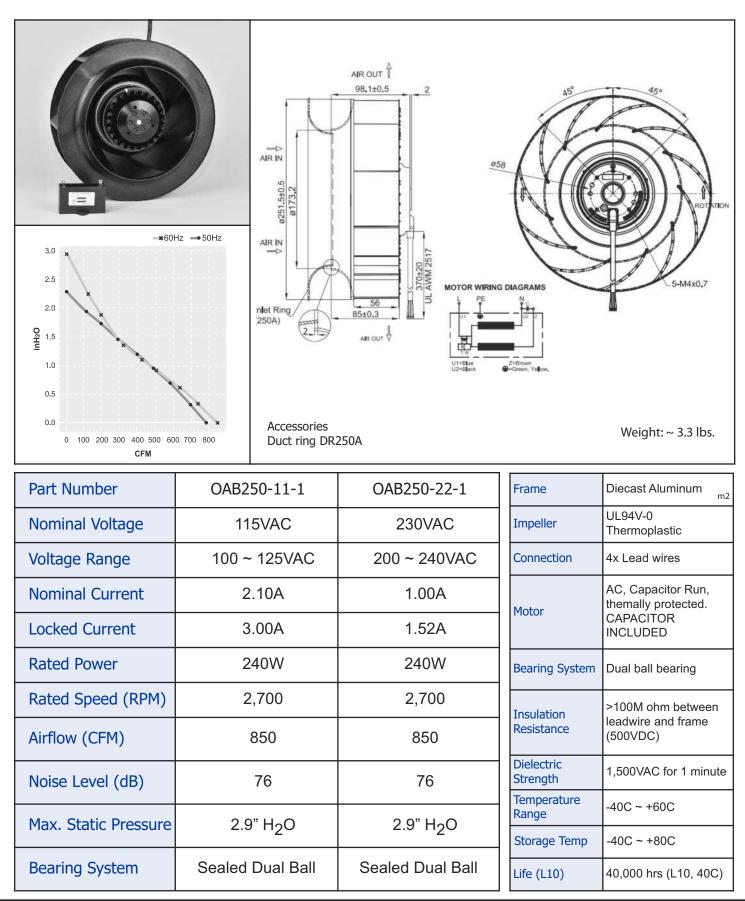
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OAB250 Series



Motorized Impeller, 115, 230V 251.5 x 98.1mm (9.9" x 3.87")







			ORION	
OAB318 Series			FANS	AC Blower - 115V, 230V 318 x 154.5mm (12.5"x 6.1")
		Access Duct Ri	AIR OUT Î IST 54.550.5 AIR IN UNITER RING UNITER RING	
Frame	Diecast Alum	inum	Notes:	
Impeller	Metal alloy		Date: 030112M2 *CAPACITORS (uF/VDB)	2001 m - 1 501 m
Connection	4x Lead Wire	S	115V - 16/250 230V - 4/450	-#60Hz →50Hz 1.50
Motor	AC capacitor impedance a protected		(Capacitor Included) Weight: ~ 8.6 lbs.	1.25 1.00
Bearing System	Ball Bearing]	07 Hu 0.75
Insulation Resistance	10M ohm bet and frame (50	ween lead wire 00VDC)		0.50 0.25
Dielectric Strength1 second at 500VAC, max. leakage < 500 MicroAmp		-	0.00 0 250 500 750 1000 CFM	
Temperature Range-20C ~ +80C (ball)				
Life Expectancy 60,000 hours L10 (40C)]		
Model Number		OAB318-	11-1B	OAB318-22-1B
Nominal Voltage		115VAC		230VAC
-			-	

Nominal Voltage	115VAC	230VAC	
Voltage Range	108 ~ 125VAC	210 ~ 240VAC	
Nominal Current (Amps)	1.10 / 1.40 [50/60Hz]	0.60 / 0.68 [50/60Hz]	
Locked Current (Amps)	2.60 / 2.40 [50/60Hz]	1.43 / 1.31 [50/60Hz]	
Input Power (Watts)	115 / 155	115 / 155	
Rated Speed (RPM)	1390 / 1580	1390 / 1580	
Airflow (CFM)	1015 / 1165	1015 / 1165	
Max. Static Pressure	1.2 / 1.6" H ₂ O	1.2 / 1.6" H ₂ O	
Noise Level (dB)	63 / 66	63 / 66	

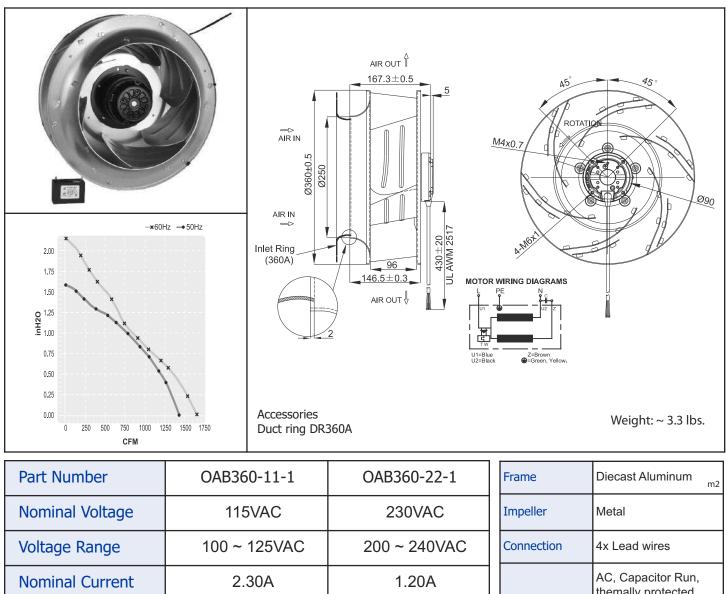




OAB360 Series



Motorized Impeller, 115, 230V 360 x 167mm (14.2" x 6.57")



Nominal Voltage	115VAC	230VAC	Impeller	Metal
Voltage Range	100 ~ 125VAC	200 ~ 240VAC	Connection	4x Lead wires
Nominal Current	2.30A	1.20A	Motor	AC, Capacitor Run, themally protected.
Locked Current	4.00A	2.00A	MOLOI	CAPACITOR INCLUDED
Rated Power	270W	265W	Bearing System	Dual ball bearing
Rated Speed (RPM)	1,600	1,600	Insulation	>100M ohm between leadwire and frame (500VDC) Class B
Airflow (CFM)	1645	1645	Resistance	
Noise Level (dB)	70	70	Dielectric Strength	1,500VAC for 1 minute
Max. Static Pressure	2.2" H ₂ O	2.2" H ₂ O	Temperature Range	-40C ~ +60C
	2.2 1120	2.2 1120	Storage Temp	-40C ~ +60C
Bearing System	Sealed Dual Ball	Sealed Dual Ball	Life (L10)	40,000 hrs (L10, 40C)





OAB400 Series



Centrifugal Fan - Class B 404 x 162mm (15.9" x 6.4")

	Accoccopying	VIRING DIAGRAMS ZEbrown @=green.yellow	Weight: 12 lbs.
Model Number	OAB400-22-1	Frame	Diecast Aluminum m2
Part Number	241611002	Impeller	Metal 4x Leads UL1332,
Nominal Voltage	230 VAC (50 Hz)	Connection	22AWG
Nominal Current	1.26 A (1.7 A locked) (50 Hz)		Capacitor run induction and external rotor
Rated Power	287 W	Motor	design Thermal protection. Capacitor included (8uF/450V)
Rated Speed (RPM)	1250	Bearing System	Dual ball bearing
Airflow (CFM)	1,900	Insulation Resistance	>100M ohm between leadwire and frame (500VDC)
Noise Level (dB)	73		Class B
Max. Static Pressure	5.4" H ₂ O	Dielectric Strength	1,500VAC for 1 minute
		Temperature Range	-40C ~ +60C
Bearing System	Life (L10)	40,000 hrs (L10, 40C)	

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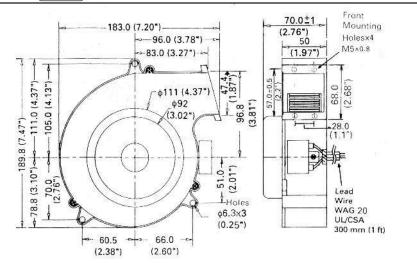
122

OAB908 Side Inlet Blower



AC Blower, ball bearing, Dual Speed 183 x 190 x 70mm (7.2" x 7.5" x 2.8") 115V, 230V





Dual Speed Blower (High, Medium)		Operating Temp: Ambient non-condensing allowable	1.80 High Med		
Frame & Impeller	Aluminum die-ca UL94V-0 impelle	er -30C ~ +80C - <u>L10 Life:</u> MTBF life test			
Connection	Lead Wires		80,000 hours at +45C, 40,000 hours at +60C - <u>Dielectric Strength</u> : Over	0.00 0.00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	
Motor	Single phase, ca induction, 2/4 po thermal protection	ole, inner rotor,	1 min. at 1,500 VAC, 0.5mA, 50/60 Hz <u>-Insulation Resistance:</u> Over 100 Mega Ohm at DC 500V		
Bearing System	Dual ball - seale	d Single speed version available m0		Airflow (CFM)	
Model Number		OAB908AN-11-1/2		OAB908AN-22-1/2	
Part Number		264311060		264611060	
Nominal Voltage		115 VAC		230 VAC	
Voltage Range		100 ~ 125 VAC		200 ~ 240 VAC	
Rated Power		80 W / 65	5 W	80 W / 65 W	
Rated Speed (RPM) 3,100		3,100 / 2,	400	3,100 / 2,400	
Airflow (CFM) 100 / 75			100 / 75		
Noise Level (dB) 68 / 55			68 / 55		
Max. Static Press	ure	1.8" H ₂ O	/ 1.4" H ₂ O	1.8" H ₂ O / 1.4" H ₂ O	



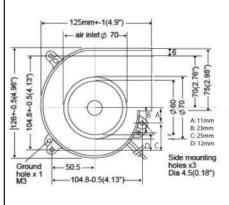


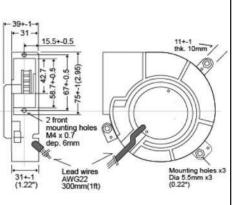
OAB800AN Series



AC Blower, ball bearing, 115V, 230V 125 x 126 x 39mm (4.9" x 5"x 1.5")





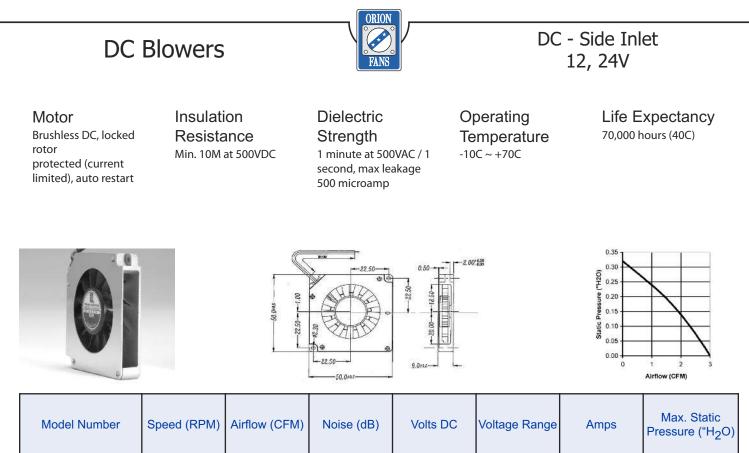


Side Inlet Blower		Operating Temp: Ambient non-condensing allowable	0.60				
Frame & Impeller	Aluminum die-cast shell with UL94V-0 impeller	thermal range -20C~+75C Storage Temp -30C ~ +80C					
Connection	Lead Wires	- <u>L10 Life:</u> MTBF life test 85,000 hours at +45C, 40,000 hours at +60C	8.30 0.30				
Motor	Shaded pole, inner rotor, single phase, impedance protected	- <u>Dielectric Strength</u> : Over 1 min. at 1,500 VAC, 0.5mA, 50/60 Hz - <u>Insulation Resistance:</u> Over 100 Mega Ohm at DC					
Bearing System	Dual ball - sealed	500V m0	0 5 10 15 20 25 30 Airflow (CFM)				

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts AC	Input Power (Watts)	Voltage Range	Max. Static Pressure (``H ₂ O)
OAB800AN-11-1B	2,800	30	48	115	18	100~120	0.51
OAB800AN-11-2B	2,100	22	39	115	12	100~120	0.35
OAB800AN-11-3B	1,400	14	28	115	9	100~120	0.19
OAB800AN-22-1B	2,800	30	48	230	18	200~240	0.51
OAB800AN-22-2B	2,100	22	39	230	12	200~240	0.35
OAB800AN-22-3B	1,400	14	28	230	9	200~240	0.19

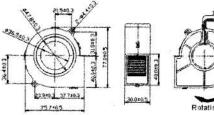


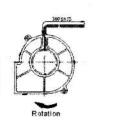


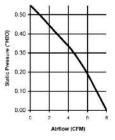


ODB5009-05HB	5,000	3	34	5	4.5~5.5	0.10	0.31
ODB5009-12HB	5,000	3	34	12	10.8~15.2	0.11	0.31









Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range	Amps	Max. Static Pressure ("H ₂ O)
ODB7530-12HB	3,400	13.8	42	12	10.8~13.2	0.24	0.56
ODB7530-24HB	3,400	13.8	42	24	21.6~26.4	0.16	0.56



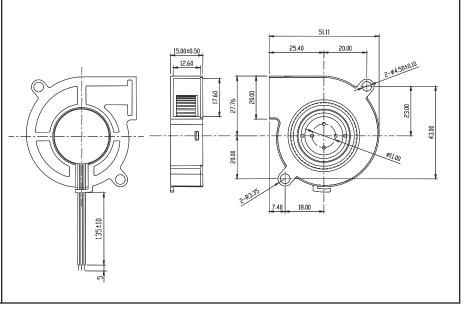


ODB5115 Series



DC Blower, 12VDC 51 x 15mm (2." x .59")





Frame & Impeller	PBT, UL94V-0 plastic	Available Options	Fan Performance Curve
Connection	2x Lead wires *	IP55	FLOWRATE(CMM)
Motor	Brushless DC, auto restart, polarity protected.	Other speeds and voltages	
Bearing System	Dual ball bearing	- Tachometer	ि ज् जि
Insulation Resistance	Min. 10M at 500VDC	 *Connection: Wire Leads - UL1007 	
Dielectric Strength	1 second at 500VAC max leakage 500 microamp	28AWG Red(+), Black(-)	STATIC
Temperature Range	-10C ~ +70C		
Storage Temperature	-40C ~ +80C		0.0 0 1 3 4 6 7 FLOWRATE(CFM)
Life (L10)	70,000 hours (40C)		

Model Number	Part Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range	Nominal Current	Input Power (Watts)	Max. Static Pressure (``H ₂ O)
ODB5115-12HB	105141001	5,500	4.2	38	12	7~13.2 VDC	.12 A	1.92	.50
ODB5115-12MB	105131001	4,500	3.3	37	12	7~13.2 VDC	.08 A	1.44	.35
ODB5115-12LB	105121001	3,500	2.4	32	12	7~13.2 VDC	.045 A	.84	.20



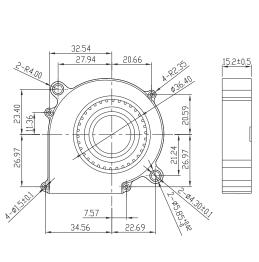


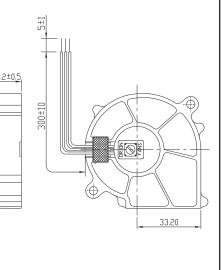
ODB6015-12HHB02A



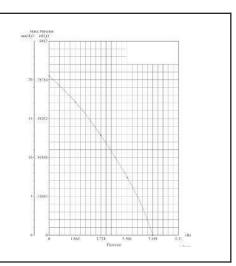
DC Blower - 12V 60 x 15mm (2.36" x .59")





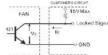


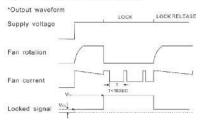
Frame & Impeller	PBT, UL94V-0 plastic	Aveilable Ordinana
Connection	3x Lead wires *	<u>Available Options:</u> Tachometer
Motor	Brushless DC, auto restart, polarity protected	*Connection UL1571, 28AWG, ~320mm
Bearing System	Dual ball bearing	Red (+) Black (-)
Insulation Resistance	Min. 10M at 500VDC	Yellow Alarm
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	
Temperature Range	-10C ~ +70C	
Storage Temperature	-40C ~ +80C	m1



Part Number	ODB6015-12HHB02A
Nominal Voltage	12 VDC
Voltage Range	7 ~ 13.2 VDC
Nominal Current	0.20 A
Start-up Voltage	10.8 VDC
Rated Power	3.84 W
Rated Speed (RPM)	5,000
Airflow (CFM)	7.45
Noise Level (dB)	44
Max. Static Pressure	.80" H ₂ O

Output of locked signal *Output type.......Open collector type *Electroni design suggestion: (External signal function design is decided by oustomer)





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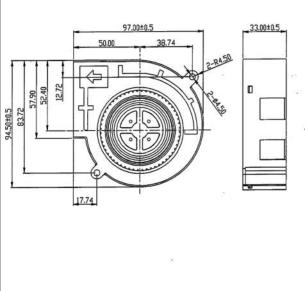
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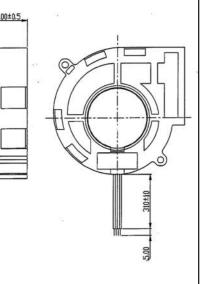
ODB9733 Series



DC Blower - Side Inlet 97 x 33mm (3.8" x 1.3")





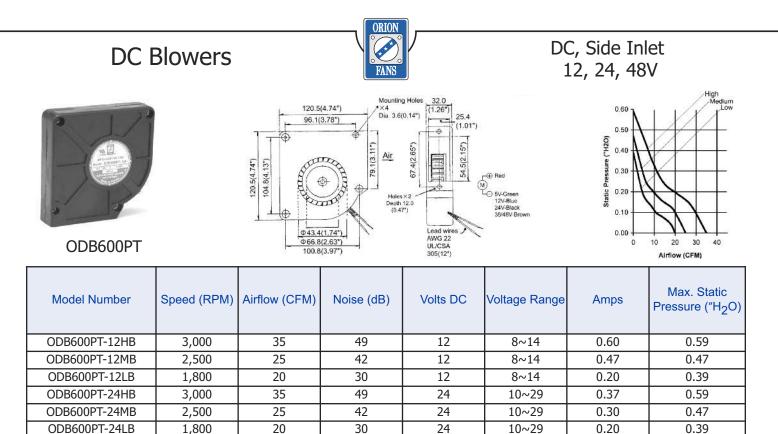


Frame & Impeller	PBT, UL94V-0 plastic	Available Options: Tachometer		
Connection	2x Lead wires	Alarm		1.20
Motor	Brushless DC, auto restart, polarity protected	*Connection	е ("Н2О)	0.90
Bearing System	Dual ball bearing	UL1007 24AWG (~310mm) Red (+)	essure	0.60
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	Black (-) Life Expectancy	Static Pr	0.30
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	50,000 hours (L10 at 25C)	0	0.00
Temperature Range	-20C ~ +75C			0 10 20 30 40
Storage Temperature	-40C ~ +80C	m1		Airflow (CFM)

Part Number	ODB9733-12HB	ODB9733-24HB
Nominal Voltage	12 VDC	24 VDC
Voltage Range	10.8 ~ 13.2 VDC	21.6 ~ 26.4 VDC
Nominal Current	0.78 A	0.35 A
Start-up Voltage	10.8 VDC	21.6 VDC
Rated Power	9.36 W	8.4 W
Rated Speed (RPM)	4,000	4,000
Airflow (CFM)	33	33
Noise Level (dB)	56	56
Max. Static Pressure	1.10" H ₂ O	1.10" H ₂ O

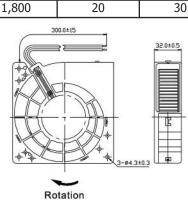


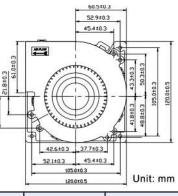






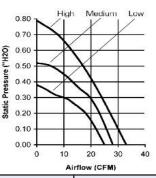
ODB1232





10~29

24



0.39

0.20

Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Volts DC	Voltage Range	Amps	Max. Static Pressure ("H ₂ O)
ODB1232-12HB	2,600	33	55	12	6~14	0.79	0.92
ODB1232-12MB	2,300	28	49	12	6~14	0.53	0.83
ODB1232-12LB	2,100	25	48	12	6~14	0.41	0.66
ODB1232-24HB	2,600	33	55	24	12~28	0.43	0.92
ODB1232-24MB	2,300	28	49	24	12~28	0.36	0.83
ODB1232-24LB	2,100	25	48	24	12~28	0.25	0.66
ODB1232-48HB	2,600	33	55	48	24~55	0.22	0.92
ODB1232-48MB	2,300	28	49	48	24~55	0.18	0.83
ODB1232-48LB	2,100	25	48	48	24~55	0.16	0.66

37.8±0.3

Frame & Impeller PBT, UL94V-0 Thermoplastic **Power Connection** Two lead wires 300mm (12") Life Expectancy (L10) Ball Bearing 50,000 hrs Sleeve Bearing 30,000 hrs

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Motor

Brushless DC, polarity protected, locked rotor protected (current limited), auto restart **Insulation Resistance** Min. 10M at 500VDC **Dielectric Strength** 1 minute at 500VAC / 1 second, max leakage 500 microamp

Operating Temperature

Ball Bearing -20C ~ +80C Sleeve Bearing -10C ~ +50C





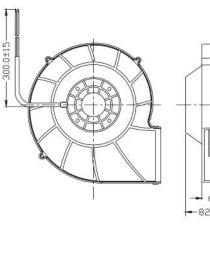
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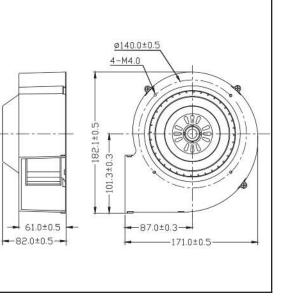
ODB182 Series



DC Blower - Side Inlet 182x171x82mm (7.2"x 6.7"x 3.2")





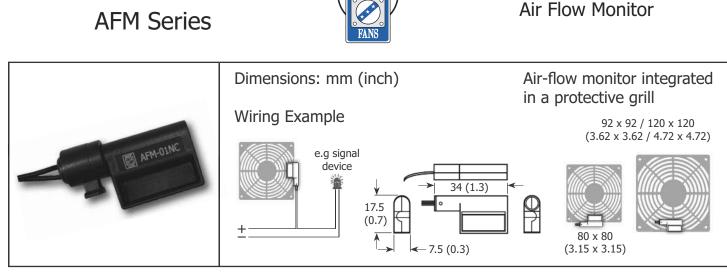


Frame & Impeller	PBT, UL94V-0 plastic	Available Options: Tachometer	2.50
Connection	2x Lead wires *	Alarm Thermal Speed Control	(07, 2.00
Motor	Brushless DC, auto restart, polarity protected	*Connection	
Bearing System	Dual ball bearing	UL1007 24AWG (~310mm) Red (+)	
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	Black (-) Life Expectancy	Static D
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	50,000 hours (L10 at 25C)	
Temperature Range	-20C ~ +75C		0 30 60 90 120
Storage Temperature	-40C ~ +80C	m4	Airflow (CFM)

Part Number	ODB182-24HB	ODB182-48HB
Nominal Voltage	24V DC	48V DC
Voltage Range	12 ~ 27V DC	24 ~ 55V DC
Nominal Current	2.2 A	1.1 A
Start-up Voltage	12V DC	24V DC
Rated Speed (RPM)	2,000	2,000
Airflow (CFM)	136	136
Noise Level (dB)	63	63
Max. Static Pressure	2.5" H ₂ O	2.5" H ₂ O







The air-flow monitor provides a simple alternative to indicate positive or negative air flow of fans or blowers. When properly installed and connected in series with an optical (i.e. LED) or audible signaling device, a bi-directional switch will activate an electrical contact if the air flow of the fan falls below 8.2 ft/s, turning the signaling device on or off. The AFM monitor can also be attached to an existing grill or guard.

Specifications

Contact Type: Reed/magnet contact NC (Normally Closed): Contact open with air flow NO (Normally Open): Contact closed with air flow Switching Threshold of Air Flow Speed: >8.2 ft/s (2.5 m/s) Hysteresis: 3.3 ft/s (1m/s) - fixed Contact Resistance Incl. Wire: 370m (1214") Service Life: >100,000 cycles Maximum Switching Capacity: 10W (resistive load) Maximum Switching Voltage: NC - AC/DC 240V NO - DC 60V Maximum Switching Current: NC - DC 500mA NO - DC 170mA Connection: 2 x single strand AWG26, length 500mm (20"), tip of stranded wire stripped/tinned 5mm (0/20") Mounting: Attachment clamp and/or clip, or integrated in protective grill Mounting Position: Air-flow monitor opening perpendicular to air flow Operating Temperature: -20 to 50°C (-4 to 122°F) Storage Temperature: -20 to 80°C (-4 to 176°F) Housing: Plastic, UL 94HB, black Dimensions: 34 x 17.5 x 7.5mm (1.3 x 0.7 x 0.3") Protection Type: NEMA 1 (IP 20) Agency Approvals: CE RoHS Compliant

Model Number	Description	Weight
AFM-01NC	Air-flow switch, NC with mounting clip and clamp (for attaching to existing fan assembly)	6 g (0.2 oz)
AFM-01NO	Air-flow monitor, NO with mounting clip and clamp (for attaching to existing fan assembly)	6 g (0.2 oz)
AFM-80NC	Air-flow monitor, NC with 80 x 80mm (3.15") plastic finger guard	20 g (0.7 oz)
AFM-80NO	Air-flow monitor, NO with 80 x 80mm (3.15") plastic finger guard	20 g (0.7 oz)
AFM-92NC	Air-flow monitor, NC with 92 x 92mm (3.62") plastic finger guard	20 g (0.7 oz)
AFM-92NO	Air-flow monitor, NO with 92 x 92mm (3.62") plastic finger guard	20 g (0.7 oz)
AFM-120NC	Air-flow monitor, NC with 120 x 120mm (4.27") plastic finger guard	31 g (1.1 oz)
AFM-120NO	Air-flow monitor, NO with 120 x 120mm (4.27") plastic finger guard	31 g (1.1 oz)

131



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Fan Guards

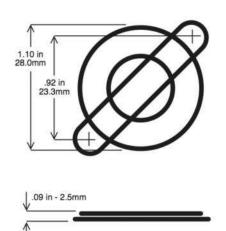


Matching Fan Series: OD2510

Matching Fan Series: OD4010, OD4020, OD4028

25mm - 50mm (1" - 2")

<u>25mm (1.0")</u>

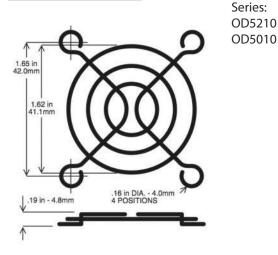


Part No.:	G25-2
Material:	C1008 Steel
Wire Dia (Ring):	1.4mm
Wire Dia (Rib):	1.4mm
Ring Spacing:	Meets 6.35mm plug gauge test
Separation Force:	220 lbs. on welds
Fits:	25mm (1″) fans
Plating:	Bright Nickel Chrome
Options:	Additional plating materials are avail- able by special order.

<u>10mm (</u>	<u> </u>	
1.26 in 2.0mm	\sim	C
1.14 in 28.9mm	ŎŎ)	
	\sim	2
↓.19 in - 4.8mm	.157 in DIA 4.0mm 7 4 POSITIONS	
		-

Part No.:	G40-2
Material:	C1008 Steel
Wire Dia (Ring):	1.6mm
Wire Dia (Rib):	1.6mm
Ring Spacing:	Meets 6.35mm plug gauge test
Separation Force:	220 lbs. on welds
Fits:	40mm (1.57″) fans
Plating:	Bright Nickel Chrome
Options:	Additional plating materials are available by special order.

<u>52mm (2.05")</u>



Part No.:	G50-3
Material:	C1008 Steel
Wire Dia (Ring):	1.6mm
Wire Dia (Rib):	1.6mm
Ring Spacing:	Meets 6.35mm plug gauge test
Separation Force:	220 lbs. on welds
Fits:	52mm (2.05″) fans
Plating:	Bright Nickel Chrome
Options:	Additional plating materials are available by special order.

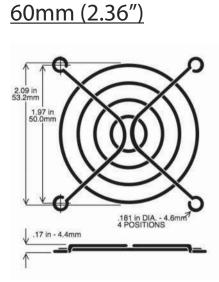


Matching Fan

Fan Guards



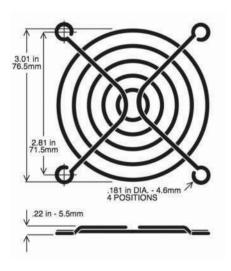
60mm - 92mm (2.32" - 3.62")



Matching Fan Series: OD6010, OD6015, OD6020, OD6025, OA60

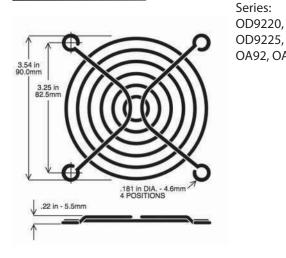
G60-4
C1008 Steel
1.6mm
1.6mm
Meets 6.35mm plug gauge test
220 lbs. on welds
60mm (2.36″) fans
Bright Nickel Chrome
Additional plating materials are available by special order.

80mm (3.15")



Matching Fan Series: OD8015,	Part No.:	G80-18 and G80-18B [Black finish]
	Material:	C1008 Steel
OD8020, OD8025,	Wire Dia (Ring):	1.8mm
OD8038,	Wire Dia (Rib):	1.8mm
OA825, OA80	Ring Spacing:	Meets 6.35mm plug gauge test
	Separation Force:	220 lbs. on welds
	Fits:	80mm (3.15") fans
	Plating:	Bright Nickel Chrome or Black
	Options:	Additional plating materials are available by special order.

92mm (3.62")



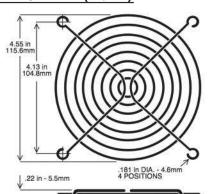
Matching Fan Series:	Part No.:	G92-16 and G92-16B [Black finish]
OD9220,	Material:	C1008 Steel
OD9225, OA92, OA938	Wire Dia (Ring):	1.6mm
0102,01030	Wire Dia (Rib):	1.6mm
	Ring Spacing:	Meets 6.35mm plug gauge test
	Separation Force:	220 lbs. on welds
	Fits:	92mm (3.65") fans
	Plating:	Bright Nickel Chrome or Black
	Options:	Additional plating materials are available by special order.



Fan Guards <u>120mm (4.7")</u>

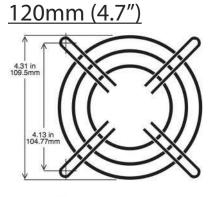


120mm (4.7")



Matching Fan
Series:
OD1225,
OD1238,
OA125,
OA109,
OA4715

Part No.:	G109-15A and G109-15AB [Black finish]
Material:	C1008 Steel
Wire Dia (Ring):	1.8mm
Wire Dia (Rib):	1.8mm
Ring Spacing:	Meets 6.35mm plug gauge test
Separation Force:	220 lbs. on welds
Fits:	120mm (4.7″) fans
Plating:	Bright Nickel Chrome or Black anodized
Options:	Additional plating materials are available by special order.



.19 in - 4.83mm

Matching Fan Series: OD1225, OD1238, OA125, OA109, OA4715

Part No.:	G109-3A
Material:	C1008 Steel
Wire Dia (Ring):	1.6mm
Wire Dia (Rib):	1.6mm
Ring Spacing:	Meets 6.35mm plug gauge test
Separation Force:	220 lbs. on welds
Fits:	120mm (4.7″) fans
Plating:	Bright Nickel Chrome
Options:	Additional plating materials are available by special order.

120mm (4.7″) 155 in 158mm 104.8mm	Matching Fan Series: OD1225, OD1238, OA125, OA109, OA4715
15 in - 3.8mm	Matching Fan
120mm (4.7")	Series:
15 in - 3.8mm	OD1225,
120mm (4.7")	OD1238,
104.8mm	OA125,
104.8mm	OA109,
104.8mm	OA4715

.18 in DIA. - 4.6mm 4 POSITIONS

Part No.:	G109-15B
Material:	C1008 Steel
Wire Dia (Ring):	1.8mm
Wire Dia (Rib):	1.8mm
Ring Spacing:	Meets 6.35mm plug gauge test
Separation Force:	220 lbs. on welds
Fits:	120mm (4.7″) fans
Plating:	Bright Nickel Chrome
Options:	Additional plating materials are available by special order.

Part No.:	G109-15B-1
Material:	C1008 Steel
Wire Dia (Ring):	1.8mm
Wire Dia (Rib):	2.3mm
Ring Spacing:	Meets 6.35mm plug gauge test
Separation Force:	220 lbs. on welds
Fits:	120mm (4.7") fans
Plating:	Black
Options:	Additional plating materials are available by special order.

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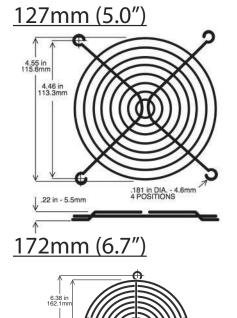
15 in - 3.8mm

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127mm - 172mm (5" - 6.7")



.26 in - 6.5mm

Fan Guards

20 in DIA. - 5.0mm 2 POSITIONS

Part No.:	G119-8
Material:	C1008 Steel
Wire Dia (Ring):	1.8mm
Wire Dia (Rib):	2.3mm
Ring Spacing:	Meets 6.35mm plug gauge test
Separation Force:	220 lbs. on welds
Fits:	127mm (5″) fans
Plating:	Bright Nickel Chrome
Options:	Additional plating materials are available by special order.

Matching Fan Series: OD172, OA162S OA172, OA5920

Matching Fan Series: OD127,

OA119

Part No.:	G172-10HA and G172-10HAB [Black]
Material:	C1008 Steel
Wire Dia (Ring):	1.8mm
Wire Dia (Rib):	2.3mm
Ring Spacing:	Meets 6.35mm plug gauge test
Separation Force:	220 lbs. on welds
Fits:	162 and 172mm fans
Plating:	Bright Nickel Chrome or Black
Options:	Additional plating materials are available by special order.

-			
	Matching Fan Series: OD172, OA162-5E OA172S, OA5920	Part No.:	G172-10H and G172-10HB [Black]
6.38 in 162.1mm		Material:	C1008 Steel
		Wire Dia (Ring):	1.8mm
		Wire Dia (Rib):	2.3mm
		Ring Spacing:	Meets 6.35mm plug gauge test
6.04 in 153.4mm		Separation Force:	220 lbs. on welds
		Fits:	162 and 172mm fans
		Plating:	Bright Nickel Chrome or Black
2 POSITIONS	m	Options:	Additional plating materials are available by special order.
20 in - 5.1mm 2 POSITIONS	Matching Fan Series: OD172, OA162-5E	Part No.:	G172-10LN
		Material:	C1008 Steel
5.63 in 143.0mm		Wire Dia (Ring):	1.6mm
	OA172S,	Wire Dia (Rib):	2.0mm
6.38 in 162.0mm	OA5920 Aerodynamic	Ring Spacing:	Meets 6.35mm plug gauge test
		Separation Force:	220 lbs. on welds
	design helps	Fits:	162 and 172mm fans
	to reduce fan	Plating:	Bright Nickel Chrome
↓ .25 in - 6.35mm	noise.	Options:	Additional plating materials are available by special order.

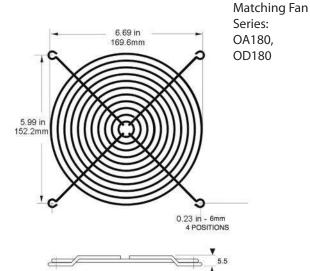


Fan Guards



180mm - 254mm (7" - 10")

<u>180mm (7")</u>

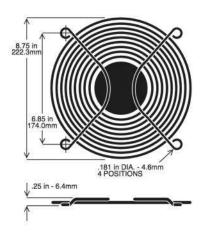


Part No.:	G180-11
Material:	C1008 Steel
Wire Dia (Ring):	1.8mm
Wire Dia (Rib):	2.3mm
Ring Spacing:	Meets 6.35mm plug gauge test
Separation Force:	220 lbs. on welds
Fits:	180mm fans
Plating:	Bright Nickel Chrome
Options:	Additional plating materials are available by special order.

B.75 in 6.85 in 174.0m 6.85 in 174.0m 175.0m 175

<u>254mm (10.0")</u>

254mm (10.0")



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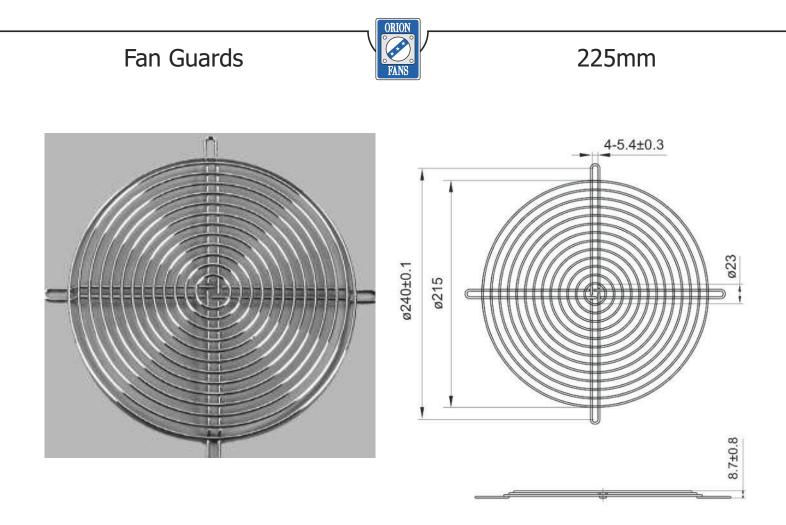


Part No.:	G254-10
Material:	C1008 Steel
Wire Dia (Ring):	2.3mm
Wire Dia (Rib):	2.3mm
Ring Spacing:	Meets 6.35mm plug gauge test
Separation Force:	220 lbs. on welds
Fits:	254mm fans
Plating:	Bright Nickel Chrome
Options:	Additional plating materials are avail- able by special order.

Matching Fan Series: OA254, OD254

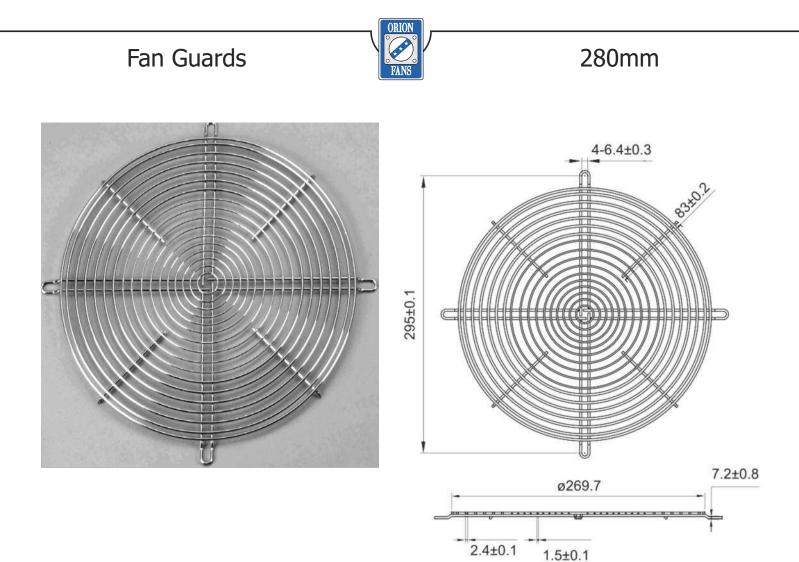
Matching Fan Series: OA254, OD254

Part No.:	G254-10P
Material:	C1008 Steel
Wire Dia (Ring):	2.3mm
Wire Dia (Rib):	2.3mm
Ring Spacing:	Meets 6.35mm plug gauge test
Separation Force:	220 lbs. on welds
Fits:	254mm fans
Plating:	Bright Nickel Chrome
Options:	Additional plating materials are avail- able by special order.



Part No.:	G225, Fan Guard for 225mm fan
Part No.:	G225/PK, 10 Pack G225 guards, boxed
Material:	Steel Wire
Ring Spacing:	Meets 6.35mm plug gauge test
Separation Force:	88 lbs. on welds
Fits:	225mm fans
Plating:	Bright Nickel Chrome
General Tollerance:	Unless noted +/- 0.5mm





Notes:

- 1. Material: Steel Wire
- 2. Finish: Bright Nickel Chrome
- 3. Welds to withstand 88 lbs. pull force
- 4. General tolerance unless noted +/-0.5mm
- 5. Part meets 6.35mm plug gauge test

Part Number	Description
G280	Fan Guard, Chrome, for 280mm fan
G280/PK	10-Pack G280 guards, Boxed



Wire Mesh Guards



Aluminum Fan Filters

Aluminum/Stainless filters offer high levels of air passage while efficiently filtering contaminants and shielding EMI/RFI.

Tightly woven stainless corrugated mesh screen (30x30, 3/16" Pitch, 1/8" Deep)

Filters may be mounted directly onto the fan or to any other housing.

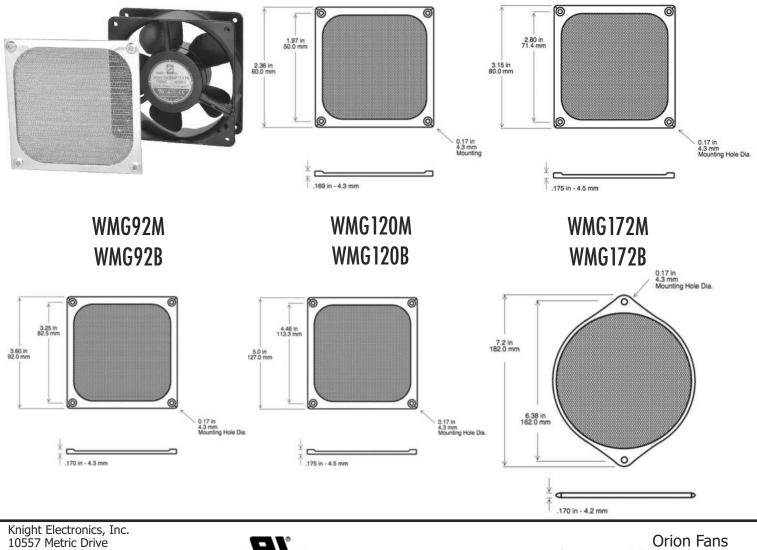
Finishes: Mill - Natural Aluminum (suffix "M")

Black Anodized (suffix "B")

Part Number	Fan Size	Matching Fan Series
WMG60M	60mm	OD6010, OD6015, OD6020,
WMG60B	(2.36")	OD6025, OA60
WMG80M	80mm	OD8015, OD8020, OD8025,
WMG80B	(3.15")	OA825, OA80
WMG92M	92mm	OD9220, OD9225, OA92,
WMG92B	(3.62")	OA938
WMG120M	120mm	OD1225, OD1238, OA125,
WMG120B	(4.7")	OA109, OA4715
WMG172M	172mm	OD172, OA162, OA172,
WMG172B	(6.7")	OA5920

WMG60M WMG60B

WMG80M WMG80B



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		ORION	
Fan	Guards	FANS	Plastic - UL94V-0
1.57 in. 40mm 1.26 in. 32mm		2.34 in. 60mm 1.97 in. 50mm	3.15 in. 80mm 2.81 in. 71.4mm
G	40P	G60P	G80P
.25 in. ↓ 6.4mm		.25 in. ↓ 6.3mm	.13 in. ↓ 3.3mm 1
3.63 in. 92.2mm 3.25 in. 82.5mm		4.72 in. 120mm 4.13 in. 104.8mm	6.38 in. 162mm
G	92P	G120P	G172P
.25 in. ↓ 6.3mm ↑		.28 in. 7.0mm	.31 in. ⊻ 8.0mm
Part Number	Fan Size	Matching Fan Series	
G40P	40mm (1.57")	OD4010, OD4020, OD4028	
G60P	60mm (2.36")	OD6010, OD6015, OD6020, OD6025, OA60	Aerodynamic
G80P	80mm (3.15")	OD8015, OD8020, OD8025, OA825, OA80	design helps to reduce
G92P	92mm (3.62")	OD9220, OD9225, OA92, OA938	fan noise
G120P G120POG	120mm (4.7")	OD1225, OD1238, OA125, OA109, OA4715	
G172P	172mm (6.7")	OD172, OA162, OA172	

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Push-On Fan Guards

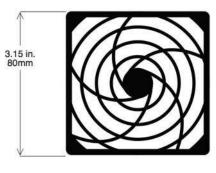


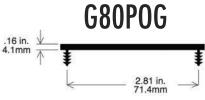
Plastic - UL94V-0

Material: UL94V-0 plastic

Color: Black is standard however custom colors are available

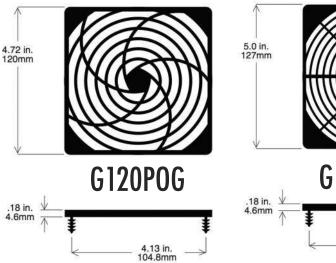
No hardware required for installation





			1X
Part Number	Fan Size	Matching Fan Series	3.63 in. 92mm
G80POG	80mm (3.15")	OD8015, OD8020, OD8025, OA825, OA80	
G92POG	92mm (3.62")	OD9220, OD9225, OA92, OA938	
G120POG	120mm (4.7")	OD1225, OD1238, OA125, OA109, OA4715	.16 in. 4.1mm
G127POG	127mm (5.0")	OD172, OA162, OA172	↑ ¥ 3.25 in

Meets UL/cUL 6.35mm (0.25") ring spacing requirement

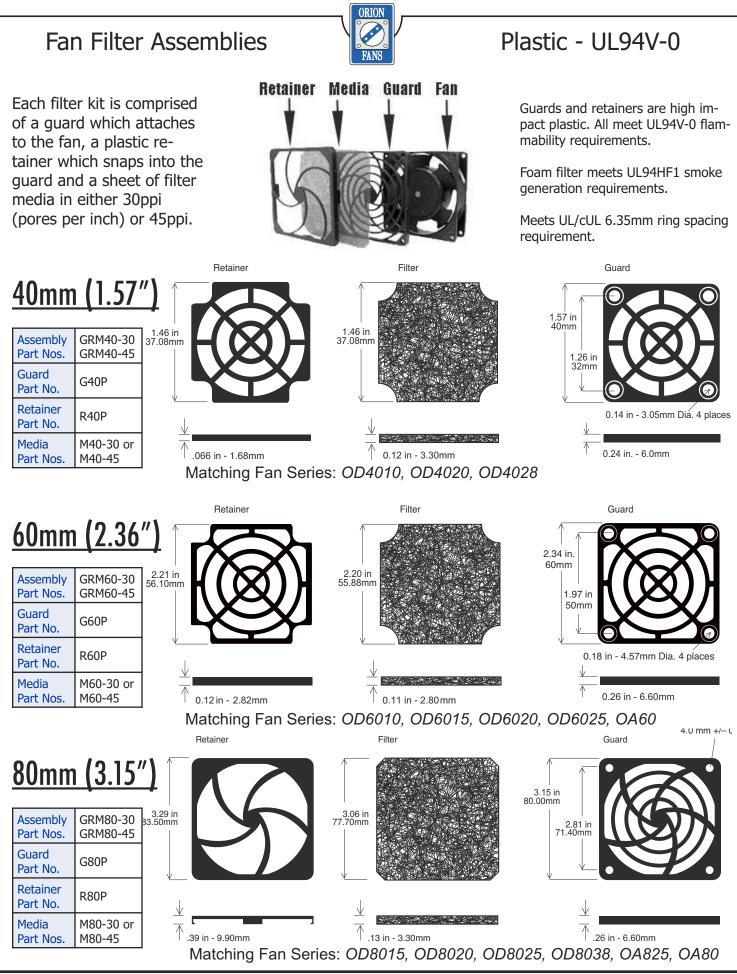








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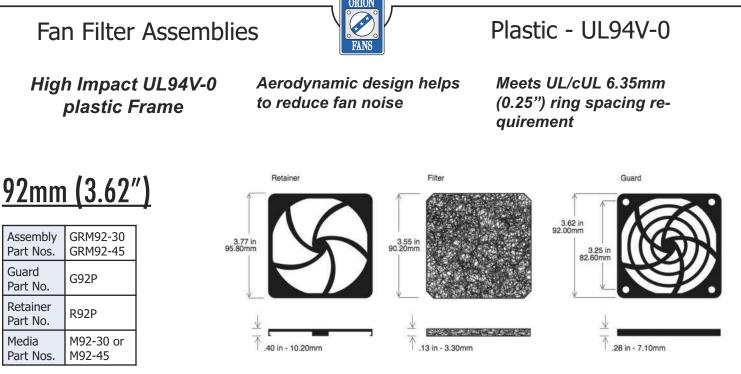


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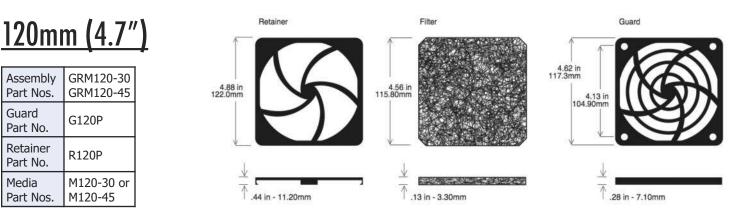


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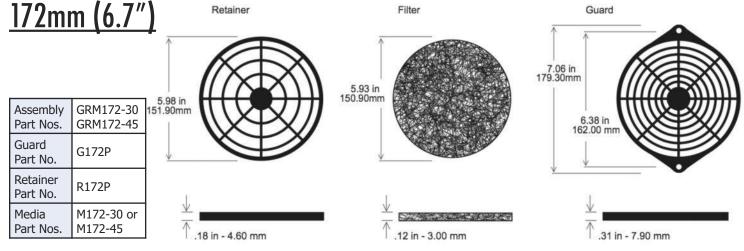
Orion Fans Information and data is subject to change without prior notification.



Matching Fan Series: OD9220, OD9225, OA92, OA938



Matching Fan Series: OD1225, OD1238, OA125, OA109, OA4715



Matching Fan Series: OD172, OA162, OA172

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GRM120-30

GRM120-45

M120-30 or

M120-45

G120P

R120P

Assembly

Part Nos.

Guard

Part No. Retainer

Part No.

Part Nos.

Media

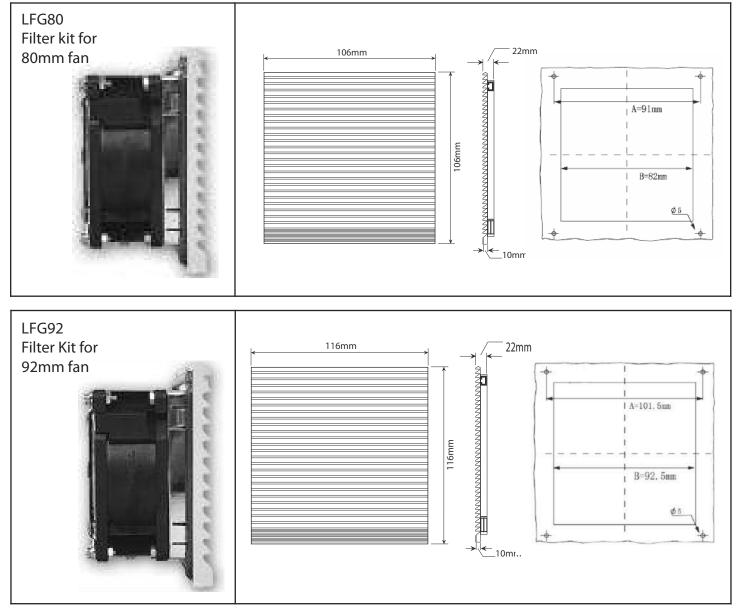




Louvered Fan Guards



Filter Kits for 80mm (3.15") & 92mm (3.62") Fans



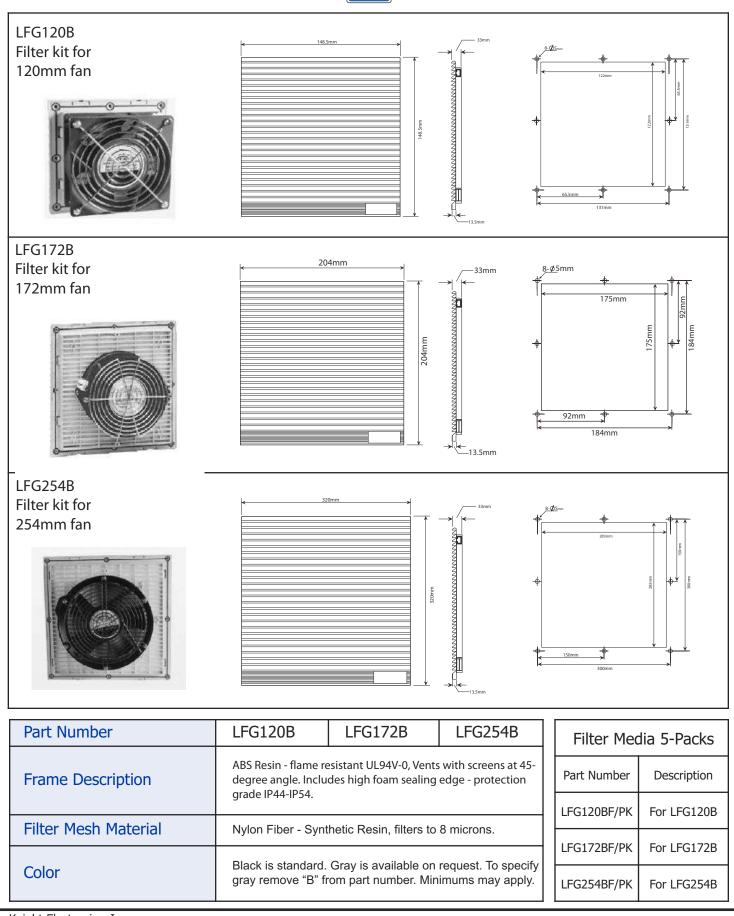
Part Number	LFG80	LFG92	Installation Method
Frame Description	ABS Resin - flame resistar screens at 45-degree ang protection grade IP44-IP	le. High foam sealing edge	incuriou incuriou
Filter Mesh Material	Nylon Fiber - Synthetic crons.	Resin, filters to 8 mi-	
Color	Gray is standard. Black To specify black add "B Minimums may apply.	is available on request. " to part number.	Filter Grill



Louvered Fan Guards



120mm - 254mm (4.7"- 10")

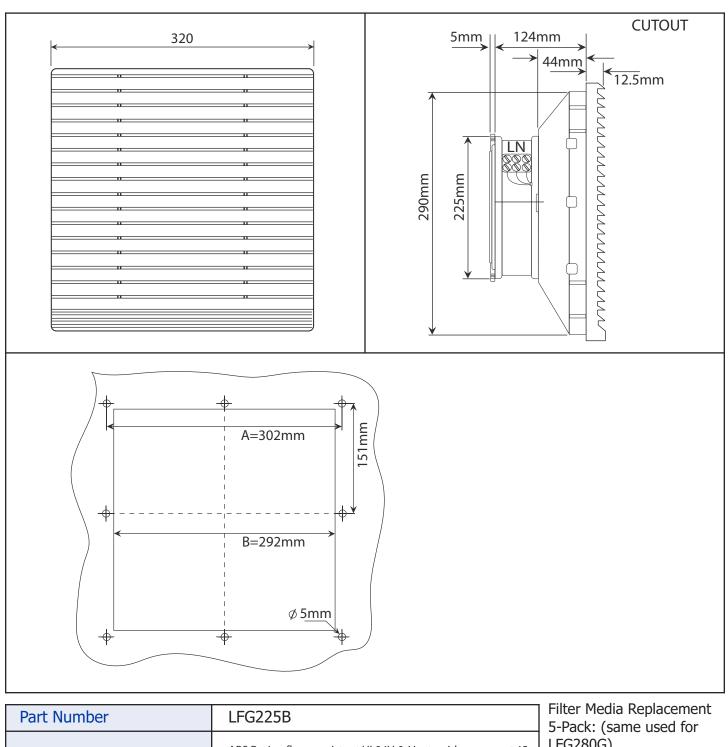




Louvered Fan Guards

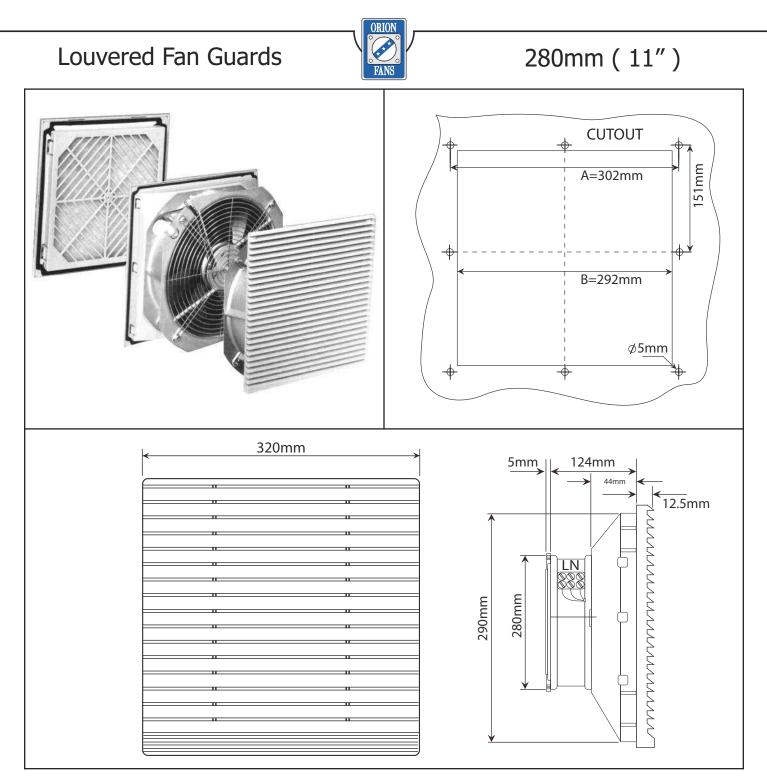


Filter Kit For 225mm (8.85")



Part Number	5-Pack: (same used for			
Frame Description	ABS Resin - flame resistant UL94V-0, Vents with screens at 45- degree angle. High foam sealing edge available by special order - protection grade IP44-IP54.	LFG280G) LFG280BF/PK		
Filter Mesh Material	Nylon Fiber - Synthetic Resin, filters to 8 microns.			
Color	Black is standard. Gray is available on request. To specify gray remove "B" from part number. Minimums may apply.			





		Filter Media Replacement
Part Number	LFG280B	5-Pack:
Frame Description	ABS Resin - flame resistant UL94V-0, Vents with screens at 45- degree angle. Includes high foam sealing edge - protection grade IP44-IP54.	LFG280BF/PK
Filter Mesh Material	Nylon Fiber - Synthetic Resin, filters to 8 microns.	
Color	Black is standard. Gray is available on request. To specify gray remove "B" from part number. Minimums may apply.	



Fan Cords & Daisy Chains



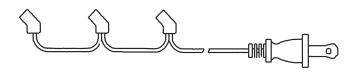
For Terminal-type Fans



- C.C.

SPT-1, 2x 18AWG, 105C

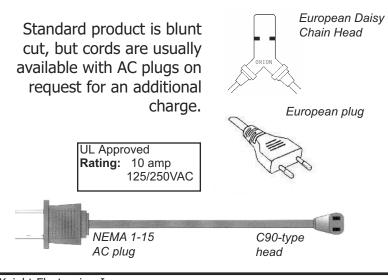
Customizing your part number-								
Head	Number of Heads	Lead Length	Termination					
C45 -	3DC -	72	Р					
C45 = 45 deg. C90 = 90 deg. C180 = straight C180T = "T" shaped	blank = 1 2DC = 2 3DC = 3 4DC = 4 6DC = 6 9DC = 9	Lead length in inches. 12" increment is standard for stock product.	blank = blunt cut ST = Stripped and Tinned P = NEMA 1-15 AC plug added EURO = Euro- pean plug					



Daisy Chains permit multiple connections of fans to a single power source.

Product is available from stock in 2, 3, 4, 6 and 9 head configurations with lead lengths ranging from 12 inches to 12 feet.

Each head is separated by 12 inches of cord.



Fans with terminals make connecting and disconnecting power a breeze.





Stocked Cords

Part Number	Features						
[12 inch Lead]							
C45-12							
C90-12	- Standard aard blunt out and baad						
C180-12	 Standard cord, blunt cut, one head 						
C180T-12	-						
[24 inch Lead]							
C45-24	Standard cord, blunt cut, one head						
C45-24P	AC plug added						
C45-2DC-24	2-head daisy chain						
C45-3DC-24	3-head daisy chain						
C45-4DC-24	4-head daisy chain						
C45-6DC-24	6-head daisy chain						
C45-9DC-24	9-head daisy chain						
C90-24							
C180-24	Standard cord, blunt cut, one head						
C180T-24	_						
[36 inch Lead]							
C45-36							
C90-36	-						
C180-36	 Standard cord, blunt cut, one head 						
C180T-36	-						
[48 inch Lead]							
C45-48	Standard cord, blunt cut, one head						
C45-48P	AC plug added						
C90-48	, ,						
C180-48	Standard cord, blunt cut, one head						
C180T-48	_						
[72 inch Lead]							
C45-72	Standard cord, blunt cut, one head						
C45-3DC-72P	3-head daisy chain, AC plug added						
C90-72	Standard cord, blunt cut, one head						
C90-72P	AC plug added						
C180-72							
C180T-72	 Standard cord, blunt cut, one head 						
[144 inch Lead]							
C90-144P	AC plug added						
C45-2DC-144P	2-head daisy chain, AC plug added						



Power Cords



Cordage & Cord Standards

ORION PART NUMBER CODE: 2

1

	Example	2	4	1	3	1	67	01		
3 Conductors Unshielded, 14 Gauge, SJT, 5-15P Straight,										
	C-13 Straight, 6'7", Black									

3

4

5

6

7

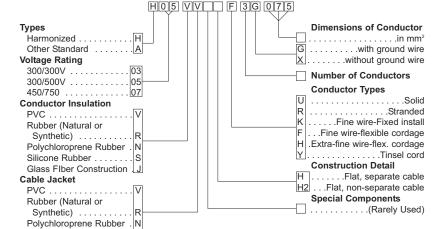
0-1	15 5112	IIght, 07, DIACK		
1: 2:	Numbe 1 = 2 = 3 = AWG	er of Conductors 2 Conductors 3 Conductors Unshielded 3 Conductors Shielded	5:	$\begin{array}{rcl} Connector \\ 0 &= & None \\ 1 &= & C-13 \ Straight \\ 2 &= & C-13 \ Right \ Angle \\ 3 &= & C-14 \end{array}$
2.	2 = 4 = 6 = 8 = B = C =	12 Gauge 14 Gauge 16 Gauge 18 Gauge .75mm 1.0mm 1.5mm	6:	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$
3:	Cord T 1 = 2 = 3 = 4 = 6 = 7 = 8 =			$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$
4:	Plug = = = = = = = = = = = = = = = = = = =	None 1-15 Standard 1-15P Polarized 5-15P Right Angle 5-15P Hospital Grade Clear 5-15P Hospital Grade Gray C-14 6-15P 5-20P 003A Europe 006B Europe 010 Europe 010A Europe 012A UK 015 Australia 019 Europe	7:	160 = 160" Color Code 01 = Black 02 = Brown 03 = Gray 05 = White
IN	ITER	NATIONAL APP	RC	OVALS:

INTERNATIONAL CORDAGE TYPES

Cord Type	AWG/Size	No. of Conductors	Temp. Std.	Rating °C Special	Voltage Rating	Description				
SJT	18 - 14	3	60	75, 90, 105	300	Service Junior Thermoplastic				
SVT	18 - 14	3	60	75, 90, 105	300	Service Vacuum Thermoplastic				
SPT-1	18	2 or 3	60	75, 90, 105	300	Service Parallel Thermoplastic 1/64" Insulation				
SPT-2	18 - 16	2 or 3	60	75, 90, 105	300	Service Parallel Thermoplastic 2/64" Insulation				
SPT-3	18 - 10	2 or 3	60	75, 90, 105	300	Service Parallel Thermoplastic 3/64 Insulation				
SJTW-A	18 - 14	3	60	75, 90, 105	300	Service Junior Thermoplastic - Outdoor Use				
HPN	18 - 16	2 or 3	90	105	300	Heater Parallel Neoprene				

Note: SJ, SJD, SJTO, SO, SV and SVO cordage is available by special order. Minimums may apply.

INTERNATIONAL CORDAGE TYPES







Canada

Netherlands KEMA

France



Finland

Japan

SP



United States

DE

÷ S

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Germany

Switzerland United Kingdom Norway

Textile Construction . . .

Т.

Australia

(AA)

R.O.J.

R.O.J. & Cut Blunt

- R.O.J.

Cut Back

149

0



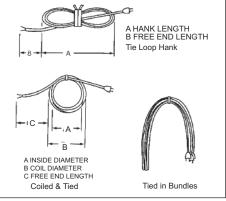
Sweden



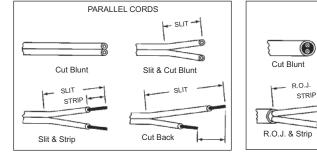


CABLED CORDS





END CUTS



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2 CONDUCTOR POWER CORDS

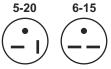


ORION Part Number	AWG	Cord Type	Length	NEMA Plug	NEMA Connector	Rating Amps @125VAC
18320-60-01	18	SPT-1	6'0"	1-15P		10
18320-90-01	18	SPT-1	9'0"	1-15p		10



3 CONDUCTOR POWER CORDS UNSHIELDED

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ORION Part Number	AWG	Cord Type	Length	NEMA Plug	NEMA Connector	Rating Amps @125VAC
24130-67-01	14	SJT	6'7"	5-15P		15
24130-910-01	14	SJT	9'10"	5-15P		15
26130-67-01	16	SJT	6'7"	5-15P	—	13
26130-910-01	16	SJT	9'10"	5-15P	—	13
26180-910-01	16	SJT	9'10"	6-15P	—	13
26190-910-01	16	SJT	9'10"	5-20P	—	13
28180-910-01	18	SJT	9'10"	6-15P	—	13
28190-910-01	18	SJT	9'10"	5-20P	—	13
28130-67-01	18	SJT	6'7"	5-15P	—	10
28130-80-01	18	SJT	8'0"	5-15P	—	10
28130-910-01	18	SJT	9'10"	5-15P		10
28230-67-01	18	SVT	6'7"	5-15P		10
28230-910-01	18	SVT	9'10"	5-15P	—	10



ORION Part Number	AWG	Cord Type	Length	NEMA Plug	NEMA Connector	Rating Amps @125VAC
24131-67-01	14	SJT	6'7"	5-15P	C-13	15
24131-910-01	14	SJT	9'10"	5-15P	C-13	15
26131-67-01	16	SJT	6'7"	5-15P	C-13	13
26131-76-01	16	SJT	7'6"	5-15P	C-13	13
26131-910-01	16	SJT	9'10"	5-15P	C-13	13
28131-67-01	18	SJT	6'7"	5-15P	C-13	10
28131-76-01	18	SJT	7'6"	5-15P	C-13	10
28131-910-01	18	SJT	9'10"	5-15P	C-13	10
28231-76-01	18	SVT	7'6"	5-15P	C-13	10
26151-80-03	16	SJT	8'0"	5-15P	C-13	13
26151-100-03	16	SJT	10'0"	5-15P	C-13	13
26161-80-03	16	SJT	8'0"	5-15P	C-13	13
26161-100-03	16	SJT	10'0"	5-15P	C-13	13
26161-140-03	16	SJT	14'0"	5-15P	C-13	13



ORION Part Number	AWG	Cord Type	Length	NEMA Plug	NEMA Connector	Rating Amps @125VAC
28232-76-01	18	SVT	7'6"	5-15P	C-13	10
26132-76-01	16	SJT	7'6"	5-15P	C-13	13
28132-76-01	18	SJT	7'6"	5-15P	C-13	10











3 CONDUCTOR POWER CORDS UNSHIELDED

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ORION Part Number	AWG	Cord Type	Length	NEMA Plug	NEMA Connector	Rating Amps @125VAC
26171-33-01	16	SJT	3'3"	C-14	C-13	13
28171-33-01	18	SJT	3'3"	C-14	C-13	10
28271-33-01	18	SVT	3'3"	C-14	C-13	10



ORION Part Number	AWG	Cord Type	Length	Length NEMA Plug Co		Rating Amps @125VAC
26101-67-01	16	SJT	6'7"	_	C-13	13
26101-910-01	16	SJT	9'10"		C-13	13
28101-67-01	18	SJT	6'7"		C-13	10
28101-910-01	18	SJT	9'10"		C-13	10
28201-76-01	18	SVT	7'6"		C-13	10



ORION Part Number	AWG	Cord Type	Length	NEMA Plug	NEMA Connector	Rating Amps @125VAC
26102-67-01	16	SJT	6'7"		C-13	13
26102-910-01	16	SJT	9'10"	—	C-13	13
28102-67-01	18	SJT	6'7"	—	C-13	10
28102-910-01	18	SJT	9'10"	_	C-13	10

3 CONDUCTOR POWER CORDS HOSPITAL GRADE UNSHIELDED NORTH AMERICAN COLOR CODE

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ORION Part Number	AWG	Cord Type	Length	NEMA Plug	NEMA Connector	Rating Amps @125VAC
28150-80-03	18	SJT	8'0"	5-15P		10
28150-100-03	18	SJT	10'0"	5-15P	—	10
28160-80-03	18	SJT	8'0"	5-15P	—	10
28160-100-03	18	SJT	10'0"	5-15P		10

ORION Part Number	AWG	Cord Type	Length	NEMA Plug	NEMA Connector	Rating Amps @125VAC					
28151-80-03	18	SJT	8'0"	5-15P	C-13	10					
28151-100-03	18	SJT	10'0"	5-15P	C-13	10					
28161-80-03	18	SJT	8'0"	5-15P	C-13	10					

10'0"

2

28161-100-03



18

SJT



C-13

10

5-15P

POWER CORDS



3 CONDUCTOR POWER CORDS SHIELDED

	Ę					
ORION Part Number	AWG	Cord Type	Length	NEMA Plug	NEMA Connector	Rating Amps @125VAC
34131-67-01	14	SJT	6'7"	5-15P	C-13	15
34131-910-01	14	SJT	9'10"	5-15P	C-13	15
36131-67-01	16	SJT	6'7"	5-15P	C-13	13
36131-910-01	16	SJT	9'10"	5-15P	C-13	13
38131-67-01	18	SJT	6'7"	5-15P	C-13	10
38131-910-01	18	SJT	9'10"	5-15P	C-13	10
38231-67-01	18	SVT	6'7"	5-15P	C-13	10
38231-910-01	18	SVT	9'10"	5-15P	C-13	10

TO

					-			
ORION Part Number	AWG	Cord Type	Length	NEMA Plug	NEMA Connector	Rating Amps @125VAC		
36132-67-01	16	SJT	6'7"	5-15P	C-13	13		
36132-910-01	16	SJT	9'10"	5-15P	C-13	13		
38132-67-01	18	SJT	6'7"	5-15P	C-13	10		
38132-910-01	18	SJT	9'10"	5-15P	C-13	10		
38232-67-01	18	SVT	6'7"	5-15P	C-13	10		
38232-910-01	18	SVT	9'10"	5-15P	C-13	10		

P

ORION Part Number	AWG	Cord Type	Length	NEMA Plug	NEMA Connector	Rating Amps @125VAC
36171-33-01	16	SJT	3'3"	C-14	C-13	13
38171-33-01	18	SJT	3'3"	C-14	C-13	10
38271-33-01	18	SVT	3'3"	C-14	C-13	10
						-



ORION Part Number	AWG	Cord Type	Length	NEMA Plug	NEMA Connector	Rating Amps @125VAC
36101-67-01	16	SJT	6'7"	_	C-13	13
36101-910-01	16	SJT	9'10"	—	C-13	13
38101-67-01	18	SJT	6'7"	_	C-13	10
38101-910-01	18	SJT	9'10"	—	C-13	10
38201-67-01	18	SVT	6'7"		C-13	10
38201-910-01	18	SVT	9'10"	_	C-13	10

ORION Part Number	AWG	Cord Type	Length	NEMA NEMA Plug Connector		Rating Amps @125VAC
36102-67-01	16	SJT	6'7"	—	C-13	13
36102-910-01	16	SJT	9'10"	—	C-13	13
38102-67-01	18	SJT	6'7"	—	C-13	10
38102-910-01	18	SJT	9'10"	—	C-13	10
38202-67-01	18	SVT	6'7"	_	C-13	10
38202-910-01	18	SVT	9'10"	—	C-13	10

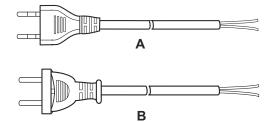


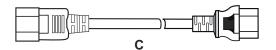


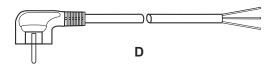
POWER CORDS

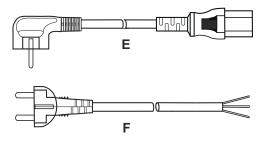


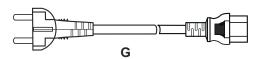
INTERNATIONAL





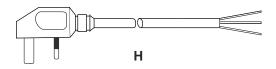


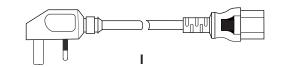




EUROPE

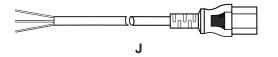
Fig.	ORION Number	Cond MM	Cord Type	Length	Plug	Conn	Amps 250VAC
Α	1A6B020-01	2X.75	H03VV-F	2.0M	006B		2.5
В	1A7G020-01	2X.75	H03VVH2-F	2.0M	019		6
С	2B8A825-01	3X1.0	H05VV-F	2.5M	003A	002-2	10
D	2B8C025-01	3X1.0	H05VV-F	2.5M	010		10
E	2B8C825-01	3X1.0	H05VV-F	2.5M	010	002-2	10
F	2B8D025-01	3X1.0	H05VV-F	2.5M	010A		10
G	2B8D825-01	3X1.0	H05VV-F	2.5M	010A	002-2	10

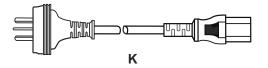




UNITED KINGDOM

Fig.	ORION Number	Cond MM	Cord Type	Length	Plug	Conn	Amps 250VAC
Н	2B8E025-01	3X1.00	H05VV-F	2.5M	012A	—	10
I	2B8E825-01	3X1.00	H05VV-F	2.5M	012A	002-2	10





AUSTRALIA

Fig.	ORION Number	Cond MM	Cord Type	Length	Plug	Conn	Amps 250VAC
J	2B8F025-01	3X1.00	H05VV-F	2.5M	015		10
Κ	2B8F825-01	3X1.00	H05VV-F	2.5M	015	002-2	10

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Power Cord Design



For Custom power cord applications please fill out the following form and fax it to 214-340-5870 and we will issue a quote on your requirements.

Company Na	me:					
Contact:						
Address:						
City / State /	Zip:					
Telephone:						
Web Address	:	E-mail:				
Quantity Req	.:					
Delivery Req	.:					
Cordage:						
North American: Europe & UK: Japan: Australia: Other:	TT, HPN, SPT-1, SPT-2, SPT-3, SVT, SJT, SJTW, SJTW-A, SJO, Other (Please Specify) HO3VVH2-F, HO3VV-F, HO5VV-F, Other (Please Specify) VVF, HVVF, VCTFK, HHFF, VCTF, HVCTF LFC-2F, GFC-2F, LFC-2R, GFC-2R, GFC-3R, LFC-3R Please Specify					
Temperature Rating:		(60C, 85C, 105C)				
No. of Conductors:		. (2 or 3)				
Wire Gauge:						
North American: Europe: Japan:	12, 14, 16, 18, 20, Other (Please Specify 0.75mm, 1.00mm 1.25mm, 2.00mm	y)				
Current Requirement:	//	_ (Amps / Volts)				
Jacket Color:		_				
Color Code:		_ (North American or European)				
Shielding:		_ (None, Foil Aluminum, Braid, Foil and Braid)				
Overall Length:		_ (Please specify meters or inches)				
Plug:		_				
IEC Connector:		_				
Unterminated Cords:		_ (ROJ to what length?)				
		_(RIJ to what length?)				
		_ (Tinned conductors?)				
Terminals Required:		_ (Please specify type and associated conductors)				

Cross Referencing



Find your replacement fan

Updated: May 22, 2015

Updates in **Bold**

ABOUT THIS CROSS-REFERENCE

The following cross reference material is for general information only. It covers the basic fan models for Comair-Rotron, Sunon, ADDA, ETRI, NMB, Nidec, Delta and EBM/Papst. In each case the crossed material is provided in a way that will allow you to find the appropriate ORION FAN equivalent in terms of size and voltage. Specifics such as CFM (airflow), static pressure curves, power draw and dB (noise) vary greatly among manufacturers and crosses are rarely exact. Therefore some thought must be given to choosing a replacement fan.

Instructions:

1. Find the closest part number match on the table below to the part number that you are crossing and make a note of the ORION recommended replacement.

2. Go to the quick size reference on the index page and find the ORION Series number.

3. Verify that the size (outside dimensions) and voltage (AC vs. DC) are the same as the fan that you are trying to cross.

4. Turn to the appropriate page and compare specifications.

5. If the ORION specifications are not within your tolerances then choose the model that most closely fits your requirements in terms of noise vs. CFM etc.

If you cannot find a suitable replacement for your fan in this catalog then please give us a call. We have several new fan models that are currently under development and many of our existing fans are available with alternate case configurations.

COMAIR-ROTRON	ORION	COMAIR-ROTRON	ORION	COMAIR-ROTRON	ORION	COMAIR-ROTRON	ORION
BD12B3	ODB600-12MB	JQ24B4	OD172AN-24HB	SD48B1	OD8032-48HB	WD12M3	OD1238PT-12LB
BD24B3	ODB600-24MB	JQ48B4	OD172AN-48HB	ST05A3	OD8032-05MB	WD24B3	OD1238PT-24MB
BD24C3	ODB600-24LB	MC12A3	OD1238PT-12HS	ST05B3	OD8032-05MB	WD24C3	OD1238PT-24MB
BD48B3	ODB600-48MB	MC12B3	OD1238PT-12HB	ST05E3	OD8032-05LLB	WD24H3	OD1238PT-24LB
BD48C3	ODB600-48LB	MC12E3	OD1238PT-12LS	ST05F3	OD8032-05LLB	WD24M3	OD1238PT-24LB
BT3A1	OAB800AN-22-1S	MC12G3	OD1238PT-12MS	ST05G3	OD8032-05LB	WD48B3	OD1238PT-48MB
BTA21	OAB800AN-11-1S	MC24A3	OD1238PT-24HS	ST05H3	OD8032-05LB	WR2A1	OA109AP-11-3TS
CD24B3	OD254AP-24HB	MC24B3	OD1238PT-24HB	ST12A3	OD8032-12HS	WR2H1	OA109AP-11-2TS
CLE2L2	OA254AP-11-1WB	MC24H3	OD1238PT-24MB	ST12A3	OD8032-12MB	WR2M1	OA109AP-11-3TS
CLE2T2	OA254AP-11-1TB	MC48B3	OD01238PT-48HB	ST12B3	OD8032-12MB	WR3A1	OA109AP-33-1TS
CLE3L2	OA254AP-22-1WB	MD12B1	OD1238PT-12HB	ST12E3	OD8032-12LLB	WR3H1	OA109AP-22-2TS
CLE3T2	OA254AP-22-1TB	MD12B2	OD1238PT-12HTB	ST12F3	OD8032-12LLB	WX2A1	OA109AP-11-3TS
CR0212LB-G70	OD2510-12HB	MD24B1	OD1238PT-24HB	ST12G3	OD8032-12LB	WX2H1	OA109AP-22-2TS
CR0412HB-C50	OD4020-12HB	MD24B2	OD1238PT-24HTB	ST12H3	OD8032-12LB	WX2M1	OA109AP-11-2TS
CR0412HB-G70	OD4010-12HB	MD48B1	OD1238PT-48HB	ST12K3	OD8032-12HB	WX3H1	OA109AP-11-1TB
CR0512HB-D71	NO CROSS	MD48B2	OD1238PT-48HTB	ST12N3	OD8032-12HB	WX3M1	OA109AP-22-2TB
CR0512HB-G90	OD5210-12HB	MR2B3	OA172SAN-11-1WB	ST24A3	OD8032-24HS	19041119A	OD172SAP-48HB01A
CR0612HB-D71GL	OD6015-12HB	MR2D3	OA172SAN-11-3TB	ST24A3	OD8032-24MB	ACCESS	SORIES
CR0624HB-A70GL	OD6025-24HB	MR77B3	OA172SAN-22-1WB	ST24B3	OD8032-24MB	428056	C45-24
CR0812HB-A70GL	OD8025-12HB	MR77D3	OA172SAN-22-3TB	ST24G3	OD8032-24LB	476042	G109-3A
CR0824HB-A70GL	OD8025-24HB	MS12B3	OD1238-12HB	ST24H3	OD8032-24LB	550440	C180-24
CR0912HB-A70GL	OD9225-12HB	MS24B3	OD1238-24HB	ST24K3	OD8032-24HB	554139	R80P
CR0924HB-A70GL	OD9225-24HB	MS48B3	OD1238-48HB	ST24N3	OD8032-24HB	554140	G80P
FE12B3	OD8025-12HB	MU2A1	OA109AP-11-1TS	SU2A1	OA80AP-11-1WB	554141	GRM80-30,45
FE12H3	OD8025-12MB	MU2B1	OA109AP-11-1TB	SU2A5	0A80AP-11-1TB	554142	M80-30,45
FE24B3	OD8025-24HB	MU3A1	OA109AP-22-1TS	SU2A7	0A80AP-11-1WBR	554148	GRM-120-30
FE24H3	OD8025-24MB	MU3B1	OA109AP-22-1TB	SU2B1	OA80AP-11-1WB	554172	G92-16
FN12B3	OD9225-12HB	MX2A1*	OA109AP-11-1TS	SU2B5	OA80AP-11-1TB	554172	G92-16
FN12C3	OD9225-12MB	MX2A3	OA109AP-11-1TS	SU2C1	OA80AP-11-2WB	557219	M92-30,45
FN24B3	OD9255-24HB	MX2B3	OA109AP-11-1TB	SU2E1	OA80AP-11-2WB	557220	R92P
FN24C3	OD9225-24MB	MX3A1*	OA109AP-22-1TS	SU2E7	0A80AP-11-2WBR	557221	G92P
FS12B3	OD6025-12MB	MX3A3	OA109AP-22-1TS	SU2G1	OA80AP-11-1WB	557239	GRM60-30,45
FS12H3	OD6025-12LB	MX3B3	OA109AP-22-1TB	SU2H1	0A80AP-11-1WB	557240	M60-30.45
FS24B3	OD6025-24HB	PQ12B4	OD172SAP-12HB	SU3A1	OA80AP-11-1WB	557241	G60P
FS24H3	OD6025-24LB	PQ12C4	OD172SAP-12HB	SU3B1	OA80AP-22-1WB	557242	R60P
FT12B3	OD1225PT-12HB	PQ24B4	OD172SAP-24HB	SU3H1	OA80AP-22-1WB	572621	G60-4
FT12M3	OD1225PT-12MB	PQ24C4	OD172SAP24-HB	TB24B1	OD180AP-24HB	572621	G60-4
FT24B3	OD1225PT-23HB	PQ48B4	OD172SAP-48HB	TN3E2A	OA180AP-11-11WB	5500648	G80P
FT24M3	OD1225PT-24MB	PQ48C4	OD172SAP-48HB	TN3E2C	OA180AP-11-1TB	2230010	
GL12B4	OD127AN-12HB	PT2B3	OA172AP-11-1WB	TN3E3A	OA180AP22-1WB		
GL24B4	OD127AN-24HB	PT2D3	OA172AP-11-3TB	WD12B3	OD1238PT-12MB		
GL-48B4	OD127AN-48HB	PT77B3	OA172AP-22-1WB	WD12C3	OD1238PT-12MB		
HJQ12B4	OD172AN-12HB	PT7D3	OA172AP-22-3TB	WD1203 WD12H3	OD1238PT-12LB		



DELTA	ORION	DELTA	ORION	DELTA	ORION	DELTA	ORION
AF0812L	OD8025-12LB	AFB0812H	OD8025-12HB	AFC0712DD-TP10	OD7020-12HHB10A	EFB1524HE	OD172SAPL-24HB
AFB02505HA	OD2510-05HB	AFB0812HB	OD8015-12HB	AFC0712D-9Z08	OD7025-12HHB10A	EFB1524HG	OD172SAP-24HB
AFB02512HA	OD2510-12HB	AFB0812M	OD8025-12MB	AFC1212D-F00	OD1225-12HHBXC10A	EFB1524LE	OD172SAPL-24LB
AFB02512LA	OD5210-12LB	AFB0812MB	OD8015-12MB	ASB03512MA-AF00	OD3510-12LSS01A	EFB1524LG	OD172SAP-24LB
AFB02512E/	OD2510-12MB	AFB0824H	OD8025-24HB	BFB0312HA-A	ODB3010-12HB	EFB1524ME	OD172SAPL-24MB
AFB0312HA				BFB0712H			
	OD3010-12HB	AFB0824HB	OD8015-24HB		ODB7530-12HB	EFB1524MG	OD172SAP-24MB
AFB0312LA	OD3010-12LB	AFB0824L	OD8025-24LB	BFB0724H	ODB7530-24HB	EFB1548HE	OD172SAPL-48HB
AFB0312MA	OD3010-12MB	AFB0824M	OD8025-24MB	EFB0412HD	OD4020-12HB	EFB1548HG	OD172SAP-48HB
AFB0412SHB	OD4015-12HHBXC	AFB0824MB	OD8015-24MB	EFB0412L	OD4020-12LB	EFB1548LE	OD172SAPL-48LB
AFB0412SHB-SP04	OD4015-12HBXC10A	AFB0912H	OD9225-12HB	EFB0412LA	OD4010-12LB	EFB1548LG	OD172SAP-48LB
AFB0512HB-TP41	OD5015-12HB10A	AFB0912H-F00	OD9225-12HB01A	EFB0412LD	OD4020-12LB	EFB1548ME	OD172SAPL-48MB
AFB0512HHB-F00	OD5015-12HB01A	AFB0912L	OD9225-12LB	EFB0412MAD	OD4010-12MB	EFB1548MG	OD172SAP-48MB
AFB0512VHD	OD5020-12HB	AFB0912M	OD9225-12MB	EFB0412MD	OD4020-12MB	FFB0412HN	OD4028-12HB
AFB0612H	OD6025-12HB	AFB0924H	OD9225-24HB	EFB0424HD	OD4020-24HB	FFB0412MN	OD4028-12MB
AFB0612HB	OD6015-12HB	AFB0924L	OD9225-24LB	EFB0424LD	OD4020-24LB	FFB0424HN	OD4028-24HB
AFB0612HD	OD6020-12HB	AFB0924M	OD9225-24MB	EFB0424LD	OD4020-24LB	FFB0424MN	OD4020-24MB
AFB0612L	OD6025-12LB	AFB1212H	OD1225-12HB	EFB0424MD	OD4020-24MB	GFC0412DS-TP01	OD4056-12MB10A
AFB0612LB	OD6015-12LB	AFB1212HE	OD1238-12HB	EFB0512HHA-F00	OD5010-12HB01A	PFB0612UHE-F00	OD6038-12MBXC01A
AFB0612LD	OD6020-12LB	AFB1212L	OD1225-12LB	EFB0612HHA	OD6010-12HB	PFR0612XHE-F00	OD6038-12HHBXC01A
AFB0612M	OD6025-12MB	AFB1212LE	OD1238-12LB	EFB0612HA-F00	OD6010-12HB01A	PFR0612XHE-SP00	OD6038-12HHBXC10A
AFB0612MB	OD6015-12MB	AFB1212M	OD1225-12MB	EFB0812HF	OD8032-12HB	PFR0612UHE-F00	OD6038-12LBXC01A
AFB0612MD	OD6020-12MB	AFB1212ME	OD1238-12MB	EFB0812LF	OD8032-12LB	PFR0612DHE-F00	OD6038-12HBXC01A
AFB0624H	OD6025-24HB	AFB1212VHE-F00	OD1238-12LLBXC01A	EFB0812MF	OD8032-12MB	PFR0612DHE-SP00	OD6038-12HBXC10A
AFB0624HD	OD6020-24HB	AFB1212VHE-F00	OD1225-24HB	EFB0812MF EFB0824HF	OD8032-12MB OD8032-24HB	PFR0812XHE-SP00	OD8038-12HBXC10A OD8038-12HBXE10A
AFB0624L	OD6025-24LB	AFB1224HE	OD1238-24HB	EFB0824LF	OD8032-24LB	PFR0848XHE-DV82	OD8038-48HBXE10A
AFB0624LD	OD6020-24LB	AFB1224L	OD1225-23LB	EFB0824MF	OD8032-24MB	PFR1212DHE-F00	OD1238-12HBXJ01A
AFB0624M	OD6025-24MB	AFB1224LE	OD1238-24LB	EFB1512HE	OD172SAPL-12HB	PFR1212DHE-SP00	OD1238-12HBXJ10A
AFB0624MD	OD6020-24MB	AFB1224M	OD1225-24MB	EFB1524SHG-F00	OD172SAP-24HBXC01A	PFR1212UHE-F00	OD1238-12MBXJ01A
AFB0724M-A	OD7025-24MB	AFB1224ME	OD1238-24MB	EFB1512HG	OD172SAP-12HB	PFR1212UHE-SP00	OD1238-12MBXJ10A
AFB0712VHB-F00	OD7015-12HHB01A	AFB1224SH-T500	OD1225-24HHBXCIP55	EFB1512LE	OD172SAPL-12LB		
AFB0712HHD	OD7020-12HB	AFB1248HE	OD1238-48HB	EFB1512LG	OD172SAP-12LB		
AFB0712SH-AB	OD7025-12HBXC	AFB1248LE	OD1238-48LB	EFB1512ME	OD172SAPL-12MB		
	OD7025-12HBXC01A	AFB1248ME	OD1238-48MB	EFB1512MG	OD172SAP-12MB		
AFB0712SH-AF00	ODT023-T2HDACOTA	71 DIZHOWE		ErbioiEino			
	•			•	· · · ·		
EBM/PAPST	ORION	EBM/PAPST	ORION	EBM/PAPST	ORION	EBM/PAPST	ORION
	•			EBM/PAPST	· · · ·	EBM/PAPST 8412GV	ORION OD8025-12HB
EBM/PAPST 412	ORION OD4010-12MS	EBM/PAPST 4212H	ORION OD1238-12H	EBM/PAPST 6248N	ORION OD172SAP-48HTB	8412GV	OD8025-12HB
EBM/PAPST 412 414	ORION OD4010-12MS OD4010-24HS	EBM/PAPST 4212H 4212L	ORION OD1238-12H OD1238-12LB	EBM/PAPST 6248N 6224	ORION OD172SAP-48HTB OD172SAP-24H	8412GV 8412L	OD8025-12HB OD8025-12LB
EBM/PAPST 412 414 612	ORION OD4010-12MS OD4010-24HS OD6025-12HB	EBM/PAPST 4212H 4212L 4212M	ORION OD1238-12H OD1238-12LB OD1238-12MB	EBM/PAPST 6248N 6224 6248	ORION OD172SAP-48HTB OD172SAP-24H OD172SAP-48H	8412GV 8412L 8412M	OD8025-12HB OD8025-12LB OD8025-12MB
EBM/PAPST 412 414 612 614	ORION OD4010-12MS OD4010-24HS OD6025-12HB OD6025-24HB	EBM/PAPST 4212H 4212L 4212M 4214H	ORION OD1238-12H OD1238-12LB OD1238-12MB OD1238-24H	EBM/PAPST 6248N 6224 6248 7006	ORION OD172SAP-48HTB OD172SAP-24H OD172SAP-48H OA172AN-11-1TB	8412GV 8412L 8412M 8500N	OD8025-12HB OD8025-12LB OD8025-12MB OA80AP-11-1
EBM/PAPST 412 414 612 614 712F	ORION OD4010-12MS OD4010-24HS OD6025-12HB OD6025-24HB OD7015-12MB	EBM/PAPST 4212H 4212L 4212M 4212M 4214H 4214H 4218C	ORION OD1238-12H OD1238-12LB OD1238-12MB OD1238-24H OD1238-24H	EBM/PAPST 6248N 6224 6248 7006 7056	ORION OD172SAP-48HTB OD172SAP-24H OD172SAP-48H OA172AN-11-1TB OA172AN-22-1TB	8412GV 8412L 8412M 8500N 8506N	OD8025-12HB OD8025-12LB OD8025-12MB OA80AP-11-1 OA80AP-11-1WB
EBM/PAPST 412 414 612 614 712F 3312	ORION OD4010-12MS OD4010-24HS OD6025-12HB OD7015-12MB OD7015-12MB	EBM/PAPST 4212H 4212L 4212M 4214H 4218C 4218H	ORION OD1238-12H OD1238-12LB OD1238-12MB OD1238-24H OD1238-48M OD1238-48H	EBM/PAPST 6248N 6224 6248 7006 7056 7112	ORION OD172SAP-48HTB OD172SAP-24H OD172SAP-48H OA172AN-11-1TB OA172AN-22-1TB OD172SAPL-12H	8412GV 8412L 8412M 8500N 8506N 8556N	OD8025-12HB OD8025-12LB OD8025-12MB OA80AP-11-1 OA80AP-11-1WB OA80AP-22-1
EBM/PAPST 412 612 614 712F 3312 3314	ORION OD4010-12MS OD4010-24HS OD6025-12HB OD6025-24HB OD9225-12HB OD9225-12HB	EBM/PAPST 4212H 4212L 4212M 4214H 4214H 4218C 4218H 4294H	ORION OD1238-12H OD1238-12LB OD1238-12MB OD1238-24H OD1238-24H OD1238-48H OD1238-24HTB	EBM/PAPST 6248N 6224 6248 7006 7056 7112 7114	ORION OD172SAP-48HTB OD172SAP-48H OD172SAP-48H OA172AN-11-1TB OA172AN-22-1TB OD172SAPL-12H OD172SAPL-24H	8412GV 8412L 8412M 8500N 8506N 8556N 8556N	OD8025-12HB OD8025-12LB OD8025-12MB OA80AP-11-1 OA80AP-11-1WB OA80AP-22-1 OA80AP-22-1WB
EBM/PAPST 412 414 612 614 712F 3312 3314 3412	ORION OD4010-12MS OD4010-24HS OD6025-12HB OD6025-24HB OD7015-12MB OD9225-12HB OD9225-12HB OD9225-12HB OD9225-12HB OD9225-12HB	EBM/PAPST 4212H 4212L 4212M 4214H 4218C 4218H 4298H 4298H	ORION OD1238-12H OD1238-12LB OD1238-24MB OD1238-24H OD1238-48M OD1238-24HTB OD1238-24HTB	EBM/PAPST 6248N 6224 6248 7006 7056 7112 7114 7118	ORION OD172SAP-48HTB OD172SAP-48H OA172SAP-48H OA172AN-11-1TB OA172AN-22-1TB OD172SAPL-12H OD172SAPL-24H OD172SAPL-48H	8412GV 8412L 8412M 8500N 8506N 8550N 8556N 8556N 8800N	OD8025-12HB OD8025-12LB OD8025-12MB OA80AP-11-1 OA80AP-22-1 OA80AP-22-1 OA80AP-22-1WB OA80AP-11-2
EBM/PAPST 412 414 612 614 712F 3312 3314 3412 3414	ORION OD4010-12MS OD4010-24HS OD6025-12HB OD6025-24HB OD7015-12MB OD9225-12HB OD9225-12HB OD9225-12HB OD9225-12HB OD9225-12HB OD9225-12HB OD9225-12HB	EBM/PAPST 4212H 4212L 4212M 4214H 4218C 4218H 4294H 4298H 4312L	ORION OD1238-12H OD1238-12LB OD1238-24H OD1238-24H OD1238-48H OD1238-48HTB OD1238-48HTB OD1238-48HTB	EBM/PAPST 6248N 6224 6248 7006 7056 7112 7114 7118 7212	ORION OD172SAP-48HTB OD172SAP-48H OD172SAP-48H OA172AN-11-1TB OA172AN-22-1TB OD172SAPL-12H OD172SAPL-48H OD172SAPL-48H OD172SAP-12H	8412GV 8412L 8412M 8500N 8506N 8550N 8556N 8556N 8850N 8850N 8830N	OD8025-12HB OD8025-12LB OD8025-12MB OA80AP-11-1 OA80AP-11-1WB OA80AP-22-1 OA80AP-22-1WB OA80AP-11-2 OA80AP-11-3WS
EBM/PAPST 412 414 612 614 712F 3312 3314 3412	ORION OD4010-12MS OD4010-24HS OD6025-12HB OD6025-24HB OD7015-12MB OD9225-12HB OD9225-12HB OD9225-12HB OD9225-12HB OD9225-12HB	EBM/PAPST 4212H 4212L 4212M 4214H 4218C 4218H 4298H 4298H	ORION OD1238-12H OD1238-12LB OD1238-24MB OD1238-24H OD1238-48M OD1238-24HTB OD1238-24HTB	EBM/PAPST 6248N 6224 6248 7006 7056 7112 7114 7118	ORION OD172SAP-48HTB OD172SAP-48H OA172SAP-48H OA172AN-11-1TB OA172AN-22-1TB OD172SAPL-12H OD172SAPL-24H OD172SAPL-48H	8412GV 8412L 8412M 8500N 8506N 8550N 8556N 8556N 8800N	OD8025-12HB OD8025-12LB OD8025-12MB OA80AP-11-1 OA80AP-22-1 OA80AP-22-1 OA80AP-22-1WB OA80AP-11-2
EBM/PAPST 412 414 612 614 712F 3312 3314 3412 3414	ORION OD4010-12MS OD4010-24HS OD6025-12HB OD6025-24HB OD7015-12MB OD9225-12HB OD9225-12HB OD9225-12HB OD9225-12HB OD9225-12HB OD9225-12HB OD9225-12HB	EBM/PAPST 4212H 4212L 4212M 4214H 4218C 4218H 4294H 4298H 4312L	ORION OD1238-12H OD1238-12LB OD1238-24H OD1238-24H OD1238-48H OD1238-48H OD1238-48HTB OD1238-48HTB OD1232-12L	EBM/PAPST 6248N 6224 6248 7006 7056 7112 7114 7118 7212	ORION OD172SAP-48HTB OD172SAP-48H OD172SAP-48H OA172AN-11-1TB OA172AN-22-1TB OD172SAPL-12H OD172SAPL-48H OD172SAPL-48H OD172SAP-12H	8412GV 8412L 8412M 8500N 8506N 8550N 8556N 8556N 8850N 8850N 8830N	OD8025-12HB OD8025-12LB OD8025-12MB OA80AP-11-1 OA80AP-11-1WB OA80AP-22-1 OA80AP-22-1WB OA80AP-11-2 OA80AP-11-3WS
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EBM/PAPST 412 414 612 614 712F 3312 3314 3412 3414 3906 3908 3958 4212 4214 4292 4312 4314 3312 3312L 3412E 412FH 412F 412FH 414F 4182NGX 4182NX	ORION OD4010-12MS OD4010-24HS OD6025-12HB OD7015-12MB OD9225-12HB OD9225-12HB OD9225-12HB OD9225-12HB OD9225-12HB OD9225-12HB OD9225-12HB OD9225-12H OD9225-12H OD9225-12H OD438-24H1-11TB OA92AP-11-1 OA92AP-112 OD1238-24M OD1238-12HTB OD1232-24HB OD1232-24HB OD1232-24HB OD1232-24HB OD1232-24HB OD1232-24HB OD1232-24HB OD9225-12LB OD9225-12LB OD9225-12LB OD9225-12MB OD9225-12MS OD4010-12MS OD4010-12MS </td <td>EBM/PAPST 4212H 4212L 4212M 4214H 4218C 4218H 4218H 4298H 4312L 4312M 4500N 4500N 4600X 460X 460X 460X 460X 460X 460X 460X 460X 460X 460X 460X 460X 460X 460X 460X 460X 47X 47X 47X 47X 47X 47X 47X</td> <td>ОRION ОD1238-12H OD1238-12LB OD1238-12LB OD1238-24H OD1238-24H OD1238-24H OD1238-24HTB OD1238-24HTB OD1238-24HTB OD1238-24HTB OD1232-12L OD1232-12L OD1232-12L OD1232-12L OA109AP-11-1 OA109AP-11-1 OA109AP-11-1 OA109AP-11-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-11-2 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA102AP-21-2 OA102AP-11-2 OA102AP-21-2 OA102AP-21-2 OA102AP-21-2 OA102AP-21-2 OA102AP-21-2 OA102AP-22-1 OA102AP-21-2 OA102AP-22-1 OA102AP-22-1 OA102AP-21-2 OA102AP-21-2 OA102AP-22-1 OA102AP-21-2 OA102AP-21-2 OA102AP-21-2 OA102AP-21-2 OA102AP-11-2 OA102AP-11-2 OA102AP-21-2</td> <td>EBM/PAPST 6248N 6248 7006 7056 7112 7114 7118 7212 7214 7214 7218 7805S 7806S 7855S 7856S 8312 8314 8318 8412 8414 8908 8958 8958 8958 8958 8958 8958 8112G 8112K 8124K 8312L 8312L 8312L 8312L 8312L 8312L 8312L</td> <td>ORION OD172SAP-48HTB OD172SAP-48H OA172AN-22AH OD172SAP-48H OA172AN-22-1TB OD172SAP-48H OD172SAP-48H OD172SAP-12H OD172SAP-24H OD172SAP-24H OD172SAP-24H OD172SAP-24H OD172SAP-24H OD172SAP-24H OD172SAP-24H OA162-5E-11-1WB OA162-5E-11-1WB OA162-5E-11-1WB OA162-5E-11-1WB OB032-12H OD8032-12H OD8032-24H OD8032-12HB OD8032-12LB</td> <td>8412GV 8412L 8412L 8500N 8506N 8506N 8566N 8800N 8830N 8830N 8880N 8908L 9906L 9906L 9906L 9906L 9906L 9906L 9906L 9906L 9906L 9906L 9906L 9906L 9006L 9906L 9906L 9007 8000 8000 8000 8000 8000 8000 8000</td> <td>ОD8025-12HB OD8025-12LB OD8025-12LB OD8025-12LB OA80AP-11-1 OA80AP-21-10 OA80AP-22-10 OA80AP-22-10 OA80AP-22-10 OA80AP-22-10 OA80AP-22-20 OA80AP-22-20 OA80AP-22-20 OA80AP-22-20 OA825AP-11-3 OA125AP-11-21 OA8220-22-11 OA8220-22-11 OA8220-22-11 OA8220-22-11 OA8220-22-11 OA8220-22-11 OA8220-22-11 OA8220-22-11 OA8220-22-11 OA820-22-11 OA820-22-11 OA820-22-11 OA820-22-11 OA820-22-11 OA820-22-11 OA119AP-11-21S OA119AP-11-21S OA119AP-11-21S OA119AP-22-21B OA119</td>	EBM/PAPST 4212H 4212L 4212M 4214H 4218C 4218H 4218H 4298H 4312L 4312M 4500N 4500N 4600X 460X 460X 460X 460X 460X 460X 460X 460X 460X 460X 460X 460X 460X 460X 460X 460X 47X 47X 47X 47X 47X 47X 47X	ОRION ОD1238-12H OD1238-12LB OD1238-12LB OD1238-24H OD1238-24H OD1238-24H OD1238-24HTB OD1238-24HTB OD1238-24HTB OD1238-24HTB OD1232-12L OD1232-12L OD1232-12L OD1232-12L OA109AP-11-1 OA109AP-11-1 OA109AP-11-1 OA109AP-11-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-11-2 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA109AP-22-1 OA102AP-21-2 OA102AP-11-2 OA102AP-21-2 OA102AP-21-2 OA102AP-21-2 OA102AP-21-2 OA102AP-21-2 OA102AP-22-1 OA102AP-21-2 OA102AP-22-1 OA102AP-22-1 OA102AP-21-2 OA102AP-21-2 OA102AP-22-1 OA102AP-21-2 OA102AP-21-2 OA102AP-21-2 OA102AP-21-2 OA102AP-11-2 OA102AP-11-2 OA102AP-21-2	EBM/PAPST 6248N 6248 7006 7056 7112 7114 7118 7212 7214 7214 7218 7805S 7806S 7855S 7856S 8312 8314 8318 8412 8414 8908 8958 8958 8958 8958 8958 8958 8112G 8112K 8124K 8312L 8312L 8312L 8312L 8312L 8312L 8312L	ORION OD172SAP-48HTB OD172SAP-48H OA172AN-22AH OD172SAP-48H OA172AN-22-1TB OD172SAP-48H OD172SAP-48H OD172SAP-12H OD172SAP-24H OD172SAP-24H OD172SAP-24H OD172SAP-24H OD172SAP-24H OD172SAP-24H OD172SAP-24H OA162-5E-11-1WB OA162-5E-11-1WB OA162-5E-11-1WB OA162-5E-11-1WB OB032-12H OD8032-12H OD8032-24H OD8032-12HB OD8032-12LB	8412GV 8412L 8412L 8500N 8506N 8506N 8566N 8800N 8830N 8830N 8880N 8908L 9906L 9906L 9906L 9906L 9906L 9906L 9906L 9906L 9906L 9906L 9906L 9906L 9006L 9906L 9906L 9007 8000 8000 8000 8000 8000 8000 8000	ОD8025-12HB OD8025-12LB OD8025-12LB OD8025-12LB OA80AP-11-1 OA80AP-21-10 OA80AP-22-10 OA80AP-22-10 OA80AP-22-10 OA80AP-22-10 OA80AP-22-20 OA80AP-22-20 OA80AP-22-20 OA80AP-22-20 OA825AP-11-3 OA125AP-11-21 OA8220-22-11 OA8220-22-11 OA8220-22-11 OA8220-22-11 OA8220-22-11 OA8220-22-11 OA8220-22-11 OA8220-22-11 OA8220-22-11 OA820-22-11 OA820-22-11 OA820-22-11 OA820-22-11 OA820-22-11 OA820-22-11 OA119AP-11-21S OA119AP-11-21S OA119AP-11-21S OA119AP-22-21B OA119

4188NXM

OD1238-48MB

6224NM 6248M

OD172SAP-24HTB OD172SAP-48H

8412GMV

OD8025-12MB



NMB*	ORION	NMB*	ORION	NMB*	ORION	NMB*	ORION
1004KL-01W-B50	OD2510-05HB	3115PS-12W-B30	OA80AP-11-1WB	4710PS-23W-B30	OA125AP-22-1WB	4715PS-23T-B20	OA109AP-22-1TB
1004KL-04W-B50	OD2510-12HB	3115PS-23T-B10	OA80AP-22-3TB	4715FS-12T-B10	OA109AP11-3TBR	4715PS-23T-B30	OA109AP-22-1TB
1204KL-04W-B50	OD3010-12HB	3115PS-23T-B20	OA80AP-22-2TB	4715FS-12T-B20	OA109AP11-2TBR	5015KL-04T-B50	OD127-12HTB
1404KL-04W-B59-B00	OD3510-12MB02A	3115PS-23T-B30	OA80AP-22-1TB	4715FS-12T-B30	OA109AP-11-1TBR	5015KL-04W-B50	OD127-12HB
1604KL-01W-B50	OD4010-05HB	3115PS-23W-B30	OA80AP-22-1WB	4715FS-12T-B40	OA109AP11-1TBR	5915PC-12T-B30	OA172SAPL-11-1TE
1604KL-04W-B50	OD4010-12HB	3610KL-04W-B10	OD9225-12LB	4715FS-12T-B50	OA109AP11-1TBR	5915PC-12W-B30	OA172SAPL-11-1W
1606KL-05W-B59-L00	OD4015-24HB02A	3610KL-04W-B20	OD9225-12MB	4715FS-12W-B30	OA109AP-11-1WBR	5915PC-23T-B30	OA172SAPL-22-1TE
1608KL-01W-B50	OD4020-05HB	3610KL-04W-B30	OD9225-12MB	4715FS-23T-B10	OA109AP22-3TBR	5915PC-23W-B30	OA172SAPL-22-1W
1608KL-04W-B50	OD4020-12HB	3610KL-04W-B40	OD9225-12HB	4715FS-23T-B20	OA109AP22-2TBR	5920PL-05W-B40	OD172SAP-24HB
2004KL-01W-B59-B00	OD5010-05MB02A	3610KL-04W-B50	OD9225-12HB	4715FS-23T-B30	OA109AP-22-1TBR	5920PL-07W-B40	OD172SAP-48HB
2406KL-04W-B50	OD6015-12HB	3610KL-05W-B10	OD9225-24LB	4715FS-23T-B40	OA109AP22-1TBR	5920PL-12T-B30	OD172SAP-11-1TE
2408NL-04W-B50	OD6020-12HB	3610KL-05W-B20	OD9225-24MB	4715FS-23T-B50	OA109AP22-1TBR	5920PL-12W-B30	OD172SAP-11-1W
2408NL-05W-B50	OD6020-24HB	3610KL-05W-B30	OD9225-24MB	4715FS-23W-B30	OA109AP-22-1WBR	5920PL-23T-B30	OD172SAP-22-1TE
2410ML-04W-B10	OD6025-12LB	3610KL-05W-B40	OD9225-24HB	4715KL-04T-B50	OD1238-12HTB	5920PL-23W-B30	OD172SAP-22-1WE
2410ML-04W-B20	OD6025-12MB	3610KL-05W-B50	OD9225-24HB	4715KL-04W-B10	OD1238-12LB	6820PL-05W-B50	OD172AP-24HB
2410ML-04W-B30	OD6025-12MB	3610PS-12T-B10	OA92AP-11-3TB	4715KL-04W-B20	OD1238-12MB	6820PL-07W-B50	OD172AP-48HB
2410ML-04W-B40	OD9025-12HB	3610PS-12T-B20	OA92AP-11-2TB	4715KL-04W-B30	OD1238-12HB	6820PL-12T-B30	OD172AP-11-1TB
2410ML-04W-B50	OD6025-12HB	3610PS-12T-B30	OA92AP-11-1TB	4715KL-04W-B40	OD1238-12HB	6820PL-12W-B30	OD172AP-11-1WB
2410ML-05W-B50	OD6025-24HB	3610PS-12W-B30	OA92AP-11-1WB	4715KL-04W-B50	OD1238-12HB	6820PL-23T-B30	OD172AP-22-1TB
3106KL-05W-B59-B00	OD8015-24HB02A	3610PS-23T-B10	OA92AP-22-3TB	4715KL-05T-B50	OD1238-24HTB	6820PL-23W-B30	OD172AP-22-1WB
3110KL-04W-B10	OD8025-12LB	3610PS-23T-B20	OA92AP-22-2TB	4715KL-05W-B10	OD1238-24LB	BG1203-B055-000-00	ODB1232-24HB
3110KL-04W-B20	OD8025-12MB	3610PS-23W-B30	OA92AP-22-1WB	4715KL-05W-B20	OD1238-24MB		
3110KL-04W-B30	OD8025-12MB	36110PS-23T-B30	OA92AP-22-1TB	4715KL-05W-B30	OD1238-24HB		
3110KL-04W-B40	OD8025-12HB	4710NL-04W-B40	OD1225-12HB	4715KL-05W-B40	OD1238-24HB		
3110KL-04W-B50	OD8025-12HB	4710NL-04W-B30	OD1225-12MB	4715KL-05W-B50	OD1238-24HB		
3110KL-05W-B10	OD8025-24LB	4710NL-04W-B20	OD1225-12MB	4715KL-07T-B30	OD1238-48HTB		
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3110PS-12T-B30	OA825AP-11-1TB	4710NL-04W-B50	OD1225-12HB	4715MS-12T-B40	OA109AP-11-1TB		
3110PS-12W-B10	OA825AP-11-3WB	4710NL-05W-B10	OD1225-24LB	4715MS-12T-B50	OA109AP-11-1TB		
3110PS-12W-B20	OA825AP-11-2WB	4710NL-05W-B20	OD1225-24MB	4715MS-12W-B30	OA109AP-11-1WB		
3110PS-12W-B30	OA825AP-11-1WB	4710NL-05W-B30	OD1225-24MB	4715MS-23T-B10	OA109AP-22-3TB		
3110PS-23T-B30	OA825AP-22-1TB	4710NL05W-B40	OD1225-24HB	4715MS-23T-B20	OA109AP-22-2TB		
3110PS-23W-B10	OA825AP-22-3WB	4710NL-05W-B50	OD1225-24HB	4715MS-23T-B30	OA109AP-222-1TB		
3110PS-23W-B20	OA825AP-22-2WB	4710PS-12T-B10	OA125AP-11-1TB	4715MS-23T-B40	OA109AP-22-1TB		
3110PS-23W-B30	OA825AP-22-1WB	4710PS-12T-B20	OA125AP-11-1TB	4715MS-23T-B50	OA109AP-22-1TB		
3112KL-05W-B69-E00	OD8032-24HHB02A	4710PS-12T-B30	OA125AP-11-1TB	4715MS-23W-B30	OA109AP-22-1WB		
3115FS-12T-B30	OA80AP11-1TB	4710PS-12WB30	OA125AP-11-1WB	4715PS-12T-B10	OA109AP-11-3TB		
3115PS-12T-B10	OA80AP-11-3TB	4710PS-23T-B10	OA125AP-22-3TB	4715PS-12T-B20	OA109AP-11-2TB		
3115PS-12T-B20	OA80AP-11-2TB	4710PS-23T-B20	OA125AP-22-2TB	4715PS-12T-B30	OA109AP-11-1TB		
3115PS-12T-B30	OA80AP-11-1TB	4710PS-23T-B30	OA125AP-22-1TB	4715PS-23T-B10	OA109AP-22-3TB		
MB suffix B50 or B40 is ger	nerally high speed and B10 i	s generally low speed.					
RION uses H, M, L (High, M	edium, Low) for DC fans an	d 1, 2, or 3 (High, Mediu	m, Low) for AC fans.				

NIDEC	ORION	NIDEC	ORION	NIDEC	ORION	NIDEC	ORION
TA100 DC		TA300		A30108	OA109AP-11-1	B33050	OD1238-12MB
C34230	OD2510-05MB	A30473	OA80AP-11-1TS	A30122	OA109AP-11-1	B33393	OD1238-24MB
C34237	OD2510-12MB	A30472	OA80AP-22-1TS	A30135	OA109AP-22-1	B34188-16	OD1238-24MB
C34245	OD2510-05HB	A30477	OA80AP-11-1TB	A30390	OA109AP-11-2	B33534-81A	OD1238-24HB
C34240	OD2510-12HB	A30479	OA80AP-22-1TB	A30426	OA109AP-22-2	TA500	
TA120 DC		A30716	OA80AP-11-2TS	A30433	OA109AP-11-2	A30700	OA119AP-11-2TS
C34449	OD3010-05HB	A32250	OA80AP-11-1TS	A30444	OA109AP-22-2	A307040	OA119AP-22-2TS
TA150 DC		A32353	OA80AP-22-1TS	A30769	OA109AP-11-3	A30200	OA119AP-11-1TS
C33830	OD4010-12MB	A32354	OA80AP-11-2TS	A30925	OA109AP-22-3	A30324	OA119AP-22-1TS
C33842	OD4010-12HB	M33406	OD8025-12HB	A30926	OA109AP-11-3	A30330	OA119AP-11-1TB
C33903	OD4010-24HB	M33407	OD8025-24HB	A30927	OA109AP-22-3	A30332	OA119AP-22-1TB
C33920	OD4010-24MB	M33409	OD8025-12MB	A32655	OD1225-12HB	TA600 DC Series	
C34246	OD4010-05HB	M33411	OD8025-24MB	A32670	OD1225-24HB	A32550	OD172SAP-12HB
C34247	OD4010-05MB	M33412	OD8025-12MB	A32675	OD1225-12MB	A32590	OD172SAP-12HHB
TA200 DC		M33413	OD8025-24MB	A32680	OD1225-24MB	A32600	OD172SAP-24HHB
C34573	OD5010-12HB	M33414	OD8025-12LB	A32685	OD1225-12LB	A33115	OD172SAP-12MB
C34574	OD5010-24HB	M33415	OD8025-24LB	A32690	OD1225-24LB	A33142	OD172SAP-24MB
TA225 DC		A33245	OD8015-12HB	A34350	OD1225-24HB	A33230	OD172SAP-48HHB
M33394	OD6025-12LB	A33315	OD8015-12HHB	A34362-16	OD127-48HB	A30318	OA172SAPL-11-1TB
M33397	OD6025-24LB	TA350		B31256	OD1238-12HB	A30322	OA172SAPL-22-1TB
M33399	OD6025-12LB	M33416	OD9225-12LB	B31257	OD1238-24HB	TA1000	
M33401	OD6025-24LB	M33417	OD9225-24LB	B31276	OD1238-12HB	A30436	OA254AN-11-2TB
M33402	OD6025-12LB	A33418	OD9225-12MB	B31277	OD1238-24HB	A30230	OA254AP-22-1TB
M33403	OD6025-24LB	M33419	OD9225-24MB	B31668-16	OD1238-12LB	A30205	OA254AP-11-1TB
M33404	OD6025-12MB	M33420	OD9225-12HB	B31787-16	OD1238-24LB	GAMMA 28	
M33405	OD6025-24MB	M33421	OD9225-24HB	B31873	OD1238-12MB	A34124	ODB7530-12HB
M33455	OD6025-12HB	M33422	OD9225-12HHB	B32347-16	OD1238-12LB		
M33497	OD6025-24HB	M33423	OD9225-24HHB	B32832-16	OD1238-12LB		
R33965-33	OD6015-12HB	TA450		B32837	OD1238-24MB		
R34150	OD6015-24HB	A28678	OA109AP-22-1	B32861	OD1238-48HB		



ETRI	ORION	ETRI	ORION	ETRI	ORION	ETRI	ORION
98XH-2182-000	OA125-11-1TS	125XR-2281-010	OA109AP-22-1TS	129LG-0282-010	OA109AP-11-2TB	144LV-2282-010	OA109AP-11-3TS
98XH-0182-020	OA125-11-1TB	125XR-0281-010	OA109AP-22-1TB	129LG-2281-090	OA109AP-22-2TS	144LV-0282-010	OA109AP-11-3TB
98XH-2181-000	OA125-22-1TS	125LG-2282-010	OA109AP-11-2TS	129LG-0281-010	OA109AP-22-2TB	144LV-2281-010	OA109AP-22-3TS
98XH-0181-000	OA125-22-1TB	125LG-0282-010	OA109AP-11-2TB	129XL-2282-030	OA109AP-11-3TS	144LV-0281-010	OA109AP-22-3TB
98XC-2182-000	OA125-11-3TS	125LG-2281-090	OA109AP-22-2TS	129XL-0282-010	OA109AP-11-3TB	146DF-2182-004	OA825AP-11-1TS
98XC-0182-000	OA125-11-3TB	125LG-0281-010	OA109AP-22-2TB	129XL-2281-030	OA109AP-22-3TS	146DF-0182-004	OA825AP-11-1TB
98XC-2181-000	OA125-22-3TS	125XL-2282-030	OA109AP-11-3TS	129xl-0281-010	OA109AP-22-3TS	146DF-2181-000	OA825AP-22-1TS
98XC-0181-000	OA125-22-3TB	125XL-0282-010	OA109AP-11-3TB	141LS-2282-010	OA109AP-11-1TS	146DF-0181-000	OA825AP-22-1TB
99XU-2182-000	OA92AP-11-1TS	125XL-2281-030	OA109AP-22-3TS	141LS-0282-010	OA109AP-11-1TB	146DJ-2182-030	OA825AP-11-2TS
99XU-0182-000	OA92AP-11-1TB	125XL-0281-010	OA109AP-22-2TB	141LS-2281-010	OA109AP-22-1TS	146DJ-0182-004	OA825AP-11-2TB
99XU-2181-000	OA92AP-22-1TS	126LF-2182-000	OA80AP-11-1TS	141LS-0281-010	OA109AP-22-1TB	148VK-0282-030	OA172SAPL-11-1TB
99XU-0181-000	OA92AP-22-1TB	126LF-0182-000	OA80AP-11-1TB	141LT-2282-010	OA109AP-11-2TS	148VK-0281-030	OA172SAPL-22-1TB
99XW-2182-000	OA92AP-11-2TS	126LF-2181-000	OA80AP-22-1TS	141LT-00282-010	OA109AP-11-2TB	148VP-0282-030	OA172SAPL-11-1TB
99XWU-0182-000	OA92AP-22-1TB	126LF-0181-000	OA80AP-22-1TB	141LT-2281-010	OA109AP-22-2TS	148VP-0281-030	OA172SAPL-22-1TB
99XW-0182-000	OA92AP-11-2TB	126LJ-2182-000	OA80AP-11-2TS	141LT-00281-010	OA109AP-22-2TB	148VE-0282-030	OA172SAPL-11-1TB
99XW-2181-000	OA92AP-22-2TS	126LJ-0182-000	OA80AP-11-2TB	141LV2282-010	OA109AP-11-3TS	148VE-0281-030	OA172SAPL-22-1TB
99XW-0181-000	OA92AP-22-2TB	126LJ-2181-000	OA80AP-22-2TS	141LV-0282-010	OA109AP-11-3TB	154DA-0282-030	OA172SAPL-11-1TB
99XM-2182-000	OA92AP-11-1TS	126LJ-0181-000	OA80AP-22-2TB	141LV-2281-010	OA109AP-22-3TS	154DA-0281-030	OA172SAPL-22-1TB
99XM-0182-000	OA92AP-11-1TB	126LH-2182-000	OA80AP-11-3TS	141LV0281-010	OA109AP-22-3TB	154DE-0282-030	OA172SAPL-11-1TB
99XM-2181-000	OA92AP-22-1TS	126LH-0182-000	OA80AP-11-3TB	144LS-2282-010	OA109AP-11-1TS	154DE-0281-030	OA172SAPL-22-1TB
99XM-0181-000	OA92AP-22-1TS	126LH-2181-000	OA80AP-22-3TS	144LS0282-010	OA109AP-11-1TB	154DG-0282-030	OA172SAPL-11-1TB
113XN-2182-000	OA938AP-11-1TS	126LH-0181-000	OA80AP-22-3TB	144LS-2281-010	OA109AP-22-1TS	154DG-0281-030	OA172SAPL-22-1TB
113XN-0182-000	OA938AP-11-1TB	129XR-2282-010	OA109AP-11-1TS	144LS-0281-010	OA109AP-22-1TB	235D3-1LP11-000	OD1238-12HB
113XN-2181-000	OA938AP-22-1TS	129XR-0282-010	OA109AP-11-1TB	144LT-2282-010	OA109AP-11-2TS	337D3-9LP11-00	OD127-48
113XN-0181-000	OA938AP-22-1TB	129XR-2281-010	OA109AP-22-1TS	144LT-0282-010	OA109AP-11-2TB		
125XR-2282-010	OA109AP-11-1TS	129XR-0281-010	OA109AP-22-1TB	144LT-2281-010	OA109AP-22-2TS		
125XR-0282-010	OA109AP-11-1TB	129LG-2282-010	OA109AP-11-2TS	144LT-0281-010	OA109AP-22-2TB		

ADDA	ORION	ADDA	ORION	ADDA	ORION	ADDA	ORION
AD1212HB-A71GL	OD1225-12HB	AD1224HB-F53	OD1238-24HB0120	AD0612HB-D70GL	OD6015-12HB	AD0812HB-A73GL	OD8025-12HB01A
AD1212HB-A73GL	OD1225-12HB01A	AD1224LB-F51	OD1238-24LB	AD0612LB-D70GL	OD6015-12LB	AD0812LB-A70GL	OD8025-12LB
AD1212LB-A71GL	OD1225-12LB	AD1224MB-F51	OD1238-24MB	AD0612MB-D70GL	OD6015-12MB	AD0812MB-A70GL	OD8025-12MB
AD1212MB-A71GL	OD1225-12MB	AD1248HB-F53	OD1238-48HB01A	AD0624HB-D70GL	OD6015-24HB	AD0824HB-A70GL	OD8025-24HB
AD1224HB-A71GL	OD1225-24HB	AD0212HB-G50GL	OD2510-12HB	AD0624LB-D70GL	OD6015-24LB	AD0824HB-A73GL	OD8025-24HB0120
AD1224HB-A73GL	OD1225-24HB01A	AD0212HB-G53	OD2510-12HB01A	AD0624MB-D70GL	OD6015-24MB	AD0824HB-A73GL	OD8025-24HB01A
AD1224LB-A71GL	OD1225-24LB	AD0312HB-G50	OD3010-12HB	AD0612HB-A70GL	OD6025-12HB	AD0824LB-A70GL	OD8025-24LB
AD1224MB-A71GL	OD1225-24MB	AD0312MB-G50	OD3010-12MB	AD0612LB-A70GL	OD6025-12LB	AD0824MB-A70GL	OD8025-24MB
AD1212MB-Y51	OD1232-12HB	AD0405HB-G70	OD4010-05HB	AD0612MB-A70GL	OD6025-12MB	AD0812HB-Y53	OD8032-12HB0120
AD1212MB-Y51	OD1232-12HB04	AD0412HB-G70	OD4010-12HB	AD0624HB-A70GL	OD6025-24HB	AD0824HB-Y51	OD8032-24HB
AD1212MB-Y51	OD1232-12MB	AD0412HB-G73	OD4010-12HB01A	AD0624HB-A70GL	OD6025-24HB01A	AD0912HB-A70GL	OD9225-12HB
AD1224HB-Y51	OD1232-24HB	AD0424HB-G76	OD4010-24HB01A	AD0624LB-A70GL	OD6025-24LB	AD0912HB-A71GL	OD9225-12HB01A
AD1224HB-Y51	OD1232-24HB04	AD0412HB-C50	OD4020-12HB	AD0624MB-A70GL	OD6025-24MB	AD0912LB-A70GL	OD9225-12LB
AD1212HB-F51	OD1238-12HB	AD0412HB-C53	OD4020-12HB01A	AD0812HB-D70	OD8015-12HB	AD0912MB-A70GL	OD9225-12MB
AD1212HB-F53	OD1238-12HB0120	AD0412LB-C50	OD4020-12LB	AD0812LB-D71	OD8015-12LB	AD0924HB-A70GL	OD9225-24HB
AD1212HB-F51	OD1238-12HB01A	AD0412MB-C50	OD4020-12MB	AD0812MB-D70	OD8015-12MB	AD0924HB-A76GL	OD9225-24HB01A
AD1212LB-F50	OD1238-12LB	AD0424HB-C50	OD4020-24HB	AD0824HB-D70	OD8015-24HB	AD0924LB-A70GL	OD9225-24LB
AD1212MB-F51	OD1238-12MB	AD0424LB-C50	OD4020-24LB	AD0824HB-D70	OD8015-24LB	AD0924MB-A70GL	OD9225-24MB
AD1224HB-F51	OD1238-24HB	AD0424MB-C50	OD4020-24MB	AD0824MB-D71	OD8015-24MB		
AD1224HB-F53	OD1238-24HB01	AD0412HB-B33	OD4028-12HB01A	AD0812HB-A70GL	OD8025-12HB	AD7512HX-LF	ODB7530-12HB
AD1212HS-F51	OD1238-12HS	AD0412LX-G70	OD4010-12LB	AD0512HB-G70	OD5010-12HB		
AD0812HX-A70	OD8025-12HB	AD0412HX-G71	OD4010-12HB	AD0512LX-G70	OD5010-12LB		
AD0824US-A71	OD8025-24HHB	AD0412MX-G70	OD4010-12MB	AD0612UB-A70	OD6025-12HHB		
AD0824UB-Y53	OD8032-24HHB0120	AD0412UB-C50	OD4020-12HHB	AD0612HX-A71	OD6025-12HB		
		AD0624UB-A71	OD6025-24HHB	AD0612MB-A72	OD6025-12MB02		



SUNON	ORION	SUNON	ORION	SUNON	ORION	SUNON	ORION
A1123-HBL	OA109AP-11-1WB	GM1202PFV2-8	OD2510-12MB	KD2409PTS2	OD9225-24MS	KDE4812PMV1	OD1238-48HHB
A1123-HBT	OA109AP-11-1TB	GM1203PFV1-8	OD3010-12HB	KD2409PTS3	OD9225-24LS	KDE4812PMV2	OD1238-48HB
A1123-HBT	OA4715-12TB	GM1203PFV2-8	OD3010-12MB	KD2412PMB1	OD1238-24HHB	KDE4812PMV3	OD1238-48MB
A1123-HSL	OA109AP-11-1WS	GM1204PQV1	OD4028-12HB	KD2412PMB2	OD1238-24HB	MA1062-HVL	OA60AP-11-1WB
A1123-HST	OA109AP-11-1TS	KD0504PFS1	OD4010-05HS	KD2412PMB3	OD1238-24MB	MA2062-HVL	OA60AP-22-1WB
A1172-HBTTC.R	OA172AP-11-1TB	KD0504PFS2	OD4010-05MS	KD2412PMBX-6A	OD1238-24HHB	MC35101V1-000U-A99	OD3510-12HSS
A1175-HBLT	OA172SAP-11-1WB	KD0504PKB1	OD4020-05HB	KD2412PTB1-6A	OD1225-24HB	MB45101V2-000U-A99	OD4510-12HSS
A1175-HBLTC.R	OA172AP-11-1WB OA172SAP-11-1TB	KD0504PKB2 KD0504PKB3	OD4020-05MB	KD2412PTB2-6A KD2412PTB3-6A	OD1225-24MB OD1225-24LB	MB50151V2-000U-A99 PMD1204PQB1-A	OD5015-12MSS OD4028-12HHB
A1175-HBTT A1179-HBL	OA172SAP-11-11B OA180AP-11-1WB	KD0504PKS1	OD4020-05LB OD4020-05HS	KD2412PTB3-6A KD2412PTBX-6A	OD1225-24LB OD1225-24HHB	PMD1204PQB1-A PMD2407PTB1-A.(2).GN	OD4028-12HHB OD7025-24HHB
A1179-HBT	OA180AP-11-1TB	KD0504PKS2	OD4020-5MS	KDE0502PFB2-8	OD2510-05MB	SF11580A1083HBL	OA80AP-11-1WB
A1259-HBL	OA254AN-11-1WB	KD0504PKS3	OD4020-05LS	KDE0504PFV1	OD4010-05HB	SF11580A1083HSL	OA80AP-11-1WS
A1259-HBT	OA254AN-11-1TB	KD0505PFS1	OD5010-05HS	KDE0504PFV2	OD4010-05MB	SF11580AT1082HBL	OA825AP-11-1WB
A1259-MBL	OA254AN-11-2WB	KD0505PKS2	OD5010-05MS	KDE0504PKV1	OD4020-05HB	SF11580AT1082HSL	OA825AP-11-1WS
A1259-MBL	OA254AP-11-1WB	KD1204PFB3	OD4010-12MB	KDE0504PKV2	OD4020-05MB	SF11592A1092HBL	OA92AP-11-1WB
A1259-MBT A1259-MBT	OA254AN-11-2TB OA254AP-11-1TB	KD1204PFS1 KD1204PFS2	OD4010-12HS OD4010-12MB	KDE0504PKV3 KDE0505PFV1	OD4020-05LB OD5010-05HB	SF11592A1092HBT SF11592A1092HSL	OA92AP-11-1TB OA92AP-11-1WS
A2123-HBL	OA109AP-22-1WB	KD1204PKB1	OD4010-12MB OD4020-12HB	KDE0505PFV1 KDE0505PFV2	OD5010-05MB	SF11592A1092HST	OA92AP-11-1W3
A2123-HBT	OA109AP-22-1TB	KD1204PKB2	OD4020-12MB	KDE1202PFV2-8	OD2510-12MB	SF11592A1092MBL	OA92AP-11-2WB
A2123-HBT	OA4715-23TB	KD1204PKB3	OD4020-12LB	KDE1204PFV1	OD4010-12HB	SF11592A1092MBT	OA92AP-11-2TB
A2123-HSL	OA109AP-22-1WS	KD1204PKBX	OD4020-12HHB	KDE1204PFV2	OD4010-12MB	SF11592A1092MSL	OA92AP-11-2WS
A2123-HST	OA109AP-22-1TS	KD1204PKS1	OD4020-12HS	KDE1204PKB4	OD4020-12HHB	SF11592A1092MST	OA92AP-11-2TS
A2175-HBLT	OA172SAP-22-1WB	KD1204PKS2	OD4020-12MS	KDE1204PKBX	OD4020-12HHB	SF1212ADBL	OA109AP-11/22-1WB
A2175-HBLTC.R A2175-HBTT	OA172AP-22-1WB OA172SAP-22-1TB	KD1204PKS3 KD1204PKSX	OD4020-12LS OD4020-12HHS	KDE1204PKV1 KDE1204PKV2	OD4020-12HB OD4020-12MB	SF1212ADSL SF223092A2092MSL	OA109AP-11/22-1WS OA92AP-22-2WS
A2175-HBTTC.R	OA172SAP-22-11B OA172AP-22-1TB	KD1204PKSX KD1205PFS1	OD5010-12HS	KDE1204PKV2 KDE1204PKV3	OD4020-12MB OD4020-12LB	SF223092A2092MSL SF23080A2083HBL	OA92AP-22-2WS OA80AP-22-1WB
A2179-HBL	OA180AP-22-1WB	KD1205PFS2	OD5010-12NS	KDE1204PKVX	OD4020-12HHB	SF23080A2083HSL	OA80AP-22-1WB
A2179-HBT	OA180AP-22-1TB	KD1206PFS1	OD6010-12HS	KDE1205PFV1	OD5010-12HB	SF23080AT2082HSL	OA825AP-22-1WS
A2259-HBL	OA254AN-22-1WB	KD1206PFS2	OD6010-12MS	KDE1205PFV2	OD5010-12MB	SF2308AT2082HBL	OA825AP-22-1WB
A2259-HBT	OA254AN-22-1TB	KD1206PFS3	OD6010-12LS	KDE1206PFB2	OD6010-12HB	SF23092A2092HBL	OA92AP-22-1WB
A2259-MBL	OA254AN-22-2WB	KD1206PHS1	OD6015-12HS	KDE1206PFV1	OD6010-12HB	SF23092A2092HBT	OA92AP-22-1TB
A2259-MBL A2259-MBT	OA254AP-11-1WB OA254AN-22-2TB	KD1206PHS2 KD1206PHS3	OD6015-12MS OD6015-12LS	KDE1206PFV2 KDE1206PFV3	OD6010-12MB OD6010-12LB	SF23092A2092HSL SF23092A2092HST	OA92AP-22-1WS OA92AP-22-1TS
A2259-MBT	0A254AP-11-1TB	KD1200PKB1	OD6020-12HB	KDE1206PHV1	OD6015-12HB	SF23092A2092MBL	OA92AP-22-2WB
DP102A1123MBT	OA109AP-11-2TB	KD1206PKB2	OD6020-12MB	KDE1206PHV2	OD6015-12MB	SF23092A2092MBT	OA92AP-22-2TB
DP2000A2123XST	OA109AP-22-1TS	KD1206PKS1	OD6020-12HS	KDE1206PHV3	OD6015-12LB	SF23092A2092MST	OA92AP-22-2TS
DP200A2123XBL	OA109AP-22-1WB	KD1206PKS2	OD6020-12MS	KDE1206PKV1	OD6020-12HB	SP100A1123XBL	OA109AP-11-1WB
DP200A2123XBT	OA109AP-22-1TB	KD1206PTB1	OD6025-12HB	KDE1206PKV2	OD6020-12MB	SP100A1123XBT	OA109AP-11-1TB
DP200A2123XBT DP200A2123XSL	OA4715-23TB OA109AP-22-1WS	KD1206PTB2 KD1206PTS1	OD6025-12MB OD6025-12HS	KDE1206PKVX KDE1206PTV1	OD6020-12HHB OD6025-12HB	SP100A1123XBT SP100A1123XSL	OA4715-12TB OA109AP-11-1WS
DP200A2123X3L	OA109AF-22-1WS OA175AP-11-3TS	KD1206PTS2	OD6025-12HS	KDE1206PTV1	OD6025-12HB	SP100A1123XST	OA109AP-11-1WS OA109AP-11-1TS
DP201A2123HBL	OA109AP-22-1WB	KD1208PHB2	OD8015-12HB	KDE1206PTVX	OD6025-12HHB	SP101A1123HBL	OA109AP-11-1WB
DP201A2123HBT	OA109AP-22-1TB	KD1208PHB3	OD8015-12MB	KDE1208PHV3	OD8015-12MB	SP101A1123HBT	OA109AP-11-1TB
DP201A2123HBT	OA4715-23TB	KD1208PTB1	OD8025-12HHB	KDE1208PTV1	OD8025-12HHB	SP101A1123HBT	OA4715-12TB
DP201A2123HST	OS109SP-22-1TS	KD1208PTB2	OD8025-12HB	KDE1208PTV2	OD8025-12HB	SP101A1123HSL	OA109AP-11-1WS
DP201A2133HSL	OA109AP-22-1WS	KD1208PTB3	OD8025-12MB	KDE1208PTV2	OD8025-24HB	SP101A1123HST	OA109AP-11-1TS
DP201AT2122HBL DP201AT2122HBT	OA125AP-22-1WB OA125AP-22-1TB	KD1208PTS2 KD1208PTS3	OD8025-12HS OD8025-12MS	KDE1208PTV3 KDE1209PTV1	OD8025-12MB OD9225-12HB	SP101AT1122HBL SP101AT1122HBT	OA125AP-11-1WB OA125AP-11-1TB
DP201AT2122HB1	OA125AP-22-11B OA125AP-22-1WS	KD1208PT83	OD9225-12HB	KDE1209PTV1 KDE1209PTV2	OD9225-12HB OD9225-12MB	SP101AT1122HBT	OA125AP-11-11WS
DP201AT2122HST	OA125AP-22-1TS	KD1209PTB2	OD9225-12MB	KDE1209PTV3	OD9225-12LB	SP101AT1122HST	OA125AP-11-1TS
DP202A2123MBL	OA109AP-22-2WB	KD1209PTB3	OD9225-12LB	KDE1212PMV1	OD1238-12HHB	SP102A1123MBL	OA109AP-11-2WB
DP202A2123MBT	OA109AP-22-2TB	KD1209PTS1	OD9225-12HS	KDE1212PMV2	OD1238-12HB	SP102A1123MSL	OA109AP-11-2WS
DP202A2123MSL	OA109AP-22-2WS	KD1209PTS2	OD9225-12MS	KDE1212PMV3	OD1238-12MB	SP102A1123MST	OA109AP-AA-2TS
DP202A2123MST	OA109AP-22-2TS OA109AP-22-3WB	KD1209PTS3 KD1212PMB1	OD9225-12LS	KDE1212PTB1-6A KDE2404PKV1	OD1225-12HB	SP103A1123LBL SP103A1123LBT	OA109SP-11-3WB OA109AP-11-3TB
DP203A2123LBL DP203A2123LBT	OA109AP-22-3WB OA109AP-22-3TB	KD1212PMB1 KD1212PMB2	OD1238-12HHB OD1238-12HB	KDE2404PKV1 KDE2404PKV2	OD4020-24HB OD4020-24MB	SP103A1123LB1 SP103A1123LSL	OA109AP-11-3TB OA109AP-11-3WS
DP203A2123LSL	OA109AP-22-3WS	KD1212PMB3	OD1238-12MB	KDE2404PKVX	OD4020-24HHB	SP103A1123LST	OA109AP-11-3WS
DP203A2123LST	OA109AP-22-3TS	KD1212PMB4-6A	OD1238-12LB	KDE2405PTV1	OD9225-24HB	SP103AT1122LBL	OA125AP-11-3WB
DP203AT2122LBL	OA125AP-22-3WB	KD1212PMBX-6A	OD1238-12HHB	KDE2406PKV1	OD6020-24HB	SP103AT1122LBT	OA125AP-11-3TB
DP203AT2122LBT	OA125AP-22-3TB	KD1212PTB2-6A	OD1225-12MB	KDE2406PKV2	OD6020-24MB	SP103AT1122LSL	OA125AP-11-3WS
DP203AT2122LSL	OA125AP-22-3WS	KD1212PTB3-6A	OD1225-12LB	KDE2406PKVX	OD6020-24HHB	SP103AT1122LST	OA125AP-11-3TS
DP203AT2122LST DP209WR-2123HBL	OA125AP-22-3TS OA109AP-22-1WB	KD2406PTB1 KD2408PHB2	OD6025-24HB OD8015-24HB	KDE2406PTV1 KDE2406PTV2	OD6025-24HB OD6025-24MB	SP109WR1123HBL SP109WR1123HBT	OA109AP-11-1WB OA109AP-11-1TB
DP209WR-2123HBL DP209WR2123HBT	OA109AP-22-1WB OA109AP-22-1TB	KD2408PHB2 KD2408PHB3	OD8015-24HB OD8015-24MB	KDE2406PTV2 KDE2406PTVX	OD6025-24MB	SP109WR1123HBT	OA109AP-11-11B OA4715-12TB
DP209WR2123HBT	OA4715-23TB	KD2408PTB1	OD8025-24HHB	KDE2400FTVX KDE2408PTS2	OD8025-24HS	SP109WR1123HSL	OA109AP-11-1WS
DP209WR2123HSL	OA109AP-22-1WS	KD2408PTB2	OD8025-24HB	KDE2408PTV1	OD8025-24HHB	SP109WR1123HST	OA109AP-11-1TS
DI 20011112 IZOIIOL	0.1.100.1.0.01.1.00	KD2408PTB3	OD8025-24MB	KDE2408PTV3	OD8025-24MB		
DP209WR2123HST	OA109AP-22-1TS						
DP209WR2123HST GM0502PFV1-8	OD2510-05HB	KD2408PTS3	OD8025-24MS	KDE2409PTV2	OD9225-24MB	PMB1275PNB3-AY	ODB7530-12HB
DP209WR2123HST GM0502PFV1-8 GM0502PFV2-8	OD2510-05HB OD2510-05MB	KD2408PTS3 KD2409PTB1	OD8025-24MS OD9225-24HB	KDE2409PTV3	OD9225-24LB	PMB1297PYB2-AY	ODB9733-12HB
DP209WR2123HST GM0502PFV1-8	OD2510-05HB	KD2408PTS3	OD8025-24MS				



AC & DC Fans, Blowers and Trays

AC Fans								
Series No.	VAC	Ball	Sleeve					
OA60	115, 230	\$16.00	\$14.50					
OA825	115, 230	\$16.00	\$14.50					
OA80	115, 230	\$14.50	\$13.00					
OA92	115, 230	\$16.00	\$14.50					
OA938	115, 230	\$16.00	\$14.50					
OA125	115, 230	\$16.00	\$14.50					
OA109 Standard	115, 230	\$15.50	\$14.00					
OA109 XC	115, 230	\$21.75	N/A					
O4715 Challenger	115, 230	\$12.50	N/A					
OA109 (AIOS)	115, 230	\$15.50	\$14.00					
OA109 Smart Fan	115, 230	\$21.00	N/A					
OA119	115, 230	\$26.50	\$22.00					
OA162	115, 230	\$40.00	N/A					
OA5920 Challenger	115, 230	\$31.50	N/A					
OA172	115, 230	\$41.00	N/A					
OA172 XC	115, 230	\$45.50	N/A					
OA172SAPL	115, 230	\$40.50	N/A					
OA180	115, 230	\$75.50	N/A					
OA180APL	115, 230	\$75.50	N/A					
OA200EC	115, 230	\$135.00	N/A					
OA225	115, 230	\$110.00	N/A					
OA254AP	115, 230	\$66.00	N/A					
OA254AN	115, 230	\$73.50	N/A					
OA254AN XC	115, 230	\$77.00	N/A					
OA280	115, 230	\$150.00	N/A					

AC Fans - All Metal/Industrial								
Part No.	VAC	Ball						
OA80AP all metal	115, 230	\$24.25						
OA938AP all metal	115, 230	\$25.25						
OA109AP all metal	115, 230	\$25.50						
OA119AP all metal	115, 230	\$31.25						
OA172SAP all metal	115, 230	\$46.75						
OA172AP all metal	115, 230	\$48.25						
OA162AP all metal	115, 230	\$48.25						
OA180APL all metal	115, 230	\$82.95						
OA180AN all metal	115, 230	\$84.10						
OA200AN all metal	115, 230	\$92.75						
OA205AN all metal	115, 230	\$97.35						
OA225 all metal	115, 230	\$135.00						
OA280 all metal	115, 230	\$150.00						
OA2543AN all metal	115, 230	\$109.75						
OA2547AN all metal	115, 230	\$112.00						

AC Fans - IP55 Rated		
Series No.	VAC	Ball
OA109AP	115, 230	\$20.60
OA172SAPL	115, 230	\$43.50
OA172SAP	115, 230	\$44.17

AC Fans - Salt-Fog			
Series No.	Ball		
OA109AP	115, 230	\$36.00	
OA172SAP	115, 230	\$61.00	
OA172SAP (XC)	115, 230	\$70.00	
OA254AP	115, 230	\$84.75	

AC Fans Dual Voltage 115/230 VAC

Series No.	VAC	Ball	Sleeve
OA825	115 / 230 Dual	\$21.00	\$18.00
OA80	115 / 230 Dual	\$21.00	\$18.00
OA92	115 / 230 Dual	\$21.00	\$18.00
OA938	115 / 230 Dual	\$21.00	\$18.00
OA125	115 / 230 Dual	\$21.00	\$18.00
OA109	115 / 230 Dual	\$21.00	\$18.00
OA119	115 / 230 Dual	\$31.00	\$27.50

Louvered Filter Fan Kits

(Includes AC Fan, Filter, Louvered Guard, Metal Guard & Hardware)

Gaara a Haraware,		
Series No.	Price	
OA109LFG	\$34.50	
OA172LFG	\$60.50	
OA172LFG XC	\$61.50	
OA225LFG	\$180.00	
OA254LFG	\$110.00	
OA254LFG XC	\$106.00	
OA280LFG	\$220.00	

Spot Coolers			
Model No.	Voltage Input	Ball	
OD9225-SPOT	115	\$32.00	
OD1232-SPOT	115	\$36.00	
OD1232-SPOT/DIN	115	\$44.00	

* Pricing indicated is for OEM's and is for 100 pcs. For larger quantity pricing please check with one of our franchised distributors or with our customer service. Check our website to locate a distributor in your area.



AC & DC Fans, Blowers and Trays

DC Fans **			
Series No.	VDC	Ball	Sleeve
OD2510	5, 12	\$13.50	N/A
OD3010	5, 12	\$9.00	CALL
OD3510	5, 12	\$9.00	CALL
OD4010	5, 12, 24	\$9.00	CALL
OD4010 SS	12, 24	N/A	\$4.65
OD4015	5, 12, 24	\$9.00	CALL
OD4020	5, 12, 24	\$9.00	CALL
OD4020 SS	12, 24	N/A	\$4.65
OD4028	5, 12, 24	\$10.00	CALL
OD4028 XC	12	\$13.00	N/A
OD5010	5, 12, 24	\$9.00	CALL
OD5015	12, 24	\$15.00	CALL
OD5210	5, 12, 24	\$9.00	CALL
OD6010	5, 12, 24	\$9.00	CALL
OD6015	5, 12, 24	\$9.00	CALL
OD6020	5, 12, 24	\$9.00	CALL
OD6025	5, 12, 24	\$9.00	CALL
OD6025	48	\$12.00	CALL
OD6025-60LB	60	\$12.50	N/A
OD6025 SS	12, 24	N/A	\$4.65
OD6025 IP55	12	\$12.00	N/A
OD7015	12	\$9.00	N/A
OD7020	12	\$9.00	N/A
OD7025	12, 24	\$9.00	N/A
OD7025 XC	12	\$10.00	N/A
OD8015	5, 12, 24	\$9.00	CALL
OD8025	5, 12, 24	\$9.00	CALL
OD8025	48	\$12.00	CALL
OD8025 SS	12, 24	N/A	\$4.65
OD8025 IP55	12	\$12.00	N/A
OD8032	12, 24	\$12.00	CALL
OD8032	48	\$14.00	CALL
OD8038	12, 24, 48	\$16.00	N/A
OD9220	12, 24	\$10.00	CALL
OD9225	12, 24	\$10.00	CALL
OD9225	48	\$12.00	CALL
OD9225-60HB	60	\$13.50	N/A
OD9225 SS	12, 24	N/A	\$4.65
OD9225 IP55	12	\$13.00	N/A
OD9238	12, 24	\$15.00	CALL
OD1225	12, 24	\$15.50	CALL
OD1225	48	\$19.00	CALL
OD1225 SS	12, 24	N/A	\$10.00
OD1232	12, 24	\$15.00	CALL
OD1232	48	\$20.00	CALL
OD1238	12, 24	\$17.50	CALL
OD1238	48	\$21.00	CALL
OD1238-60HB	60	\$24.00	N/A
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DC Fans **			
Series No. VDC Ball Sle			
OD1238 SS	12, 24	N/A	\$11.00
OD1238AP(Metal)	12, 24	\$19.50	N/A
OD1238 XC	12, 24	\$21.00	N/A
OD1238 XC	48	\$23.00	N/A
OD1238 HTB	12, 24	\$18.50	N/A
OD1238 HTB	48	\$24.50	N/A
OD127	12, 24	\$25.00	N/A
OD127	48	\$27.00	N/A
OD127AP(Metal)	12, 24	\$31.00	N/A
OD127AP(Metal)	48	\$34.00	N/A
OD172SAPL	12, 24	\$72.00	N/A
OD172SAPL	48	\$74.00	N/A
OD172	12, 24	\$78.50	N/A
OD172	48	\$80.00	N/A
OD180	12, 24, 48	\$110.00	N/A
OD254	12, 24	\$120.00	N/A
OD254	48	\$125.00	N/A
OD280	12, 24	\$285.00	N/A
OD280	48	\$295.00	N/A

High Static Pressure Fans			
Series No. VDC Ball			
OD6038 VXC	12, 24	\$17.00	
OD8038 VXC	12, 24, 48	\$17.00	
OD9238 VXC	12, 24, 48	\$17.00	
OD1238 VXC	12, 24, 48	\$30.00	
OD6038-12HBXC01A	12	\$16.50	
OD6038-12HBXC10A	12	\$17.00	
OD6038-12HHBXC01A	12	\$16.50	
OD6038-12HHBXC10A	12	\$17.00	
OD6038-12LBXC01A	12	\$16.50	
OD6038-24HHBXC10A	24	\$17.00	
OD8038-12HBXE10A	12	\$20.00	
OD8038-48HBXE10A	48	\$20.00	
OD9238-12HHBXC10A	12	\$22.50	
OD1238-12HBXJ01A	12	\$26.50	
OD1238-12HBXJ10A	12	\$26.50	
OD1238-12MBXJ01A	12	\$26.50	
OD1238-12MBXJ10A	12	\$26.50	
OD1238-24HBXJ01A	24	\$26.50	



	DC Blowers	5
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Series No.	VDC	Ball	Sleeve
ODB5009	12, 24	\$22.00	N/A
ODB5115	12	\$10.50	N/A
ODB6015	12	\$10.00	N/A
ODB7530	12, 24	\$18.50	N/A
ODB9733	12, 24	\$18.50	N/A
ODB9733	48	\$20.50	N/A
ODB600	12, 24	\$23.50	\$19.50
ODB600	48	\$27.00	\$23.00
ODB1232	12, 24, 48	\$20.00	N/A

AC & DC FAN TRAYS and AC BLOWERS

AC Fan Trays				
Model No. Part No. Vac Price				
OMB5200-120	FTA-520A211(HF)	120VAC	\$405.00	
OMB5200-230	FTA-520A222(HF)	230VAC	\$405.00	
OA300S (short)	FTA-03115-014(BK)	115VAC	\$175.00	
OA600S (short)	FTA-06115-014(BK)	115VAC	\$275.00	
OA300ST-120	FTA-018C311(HF)	120VAC	\$125.00	
OA300ST-12003	FTA-018C311HF(03)	120VAC	\$150.00	
OA300ST-12004	FTA-018C311HF(04)	120VAC	\$175.00	
OA600ST-120	FTA-018C611(HF)	120VAC	\$240.00	
OA300	FTA-03115-018(BK)	115VAC	\$175.00	
OA406		115VAC	\$285.00	
OA406-IEC		115VAC	\$285.00	
OA406-DUAL		115/230	\$327.00	
OA406-IEC-DUAL		115/230	\$327.00	
OA406-PS		Power Supply	\$42.00	
OA406-IEC-PS		Power Supply	\$42.00	
OA600	FTA-06115-018(BK)	115VAC	\$275.00	
OA900	FTA-09115-018(BK)	115VAC	\$375.00	
OA302S (short)	FTA-03220-014(BK)	230VAC	\$175.00	
OA602S (short)	FTA-06220-014(BK)	230VAC	\$275.00	
OA300ST-230	FTA-018C322(HF)	230VAC	\$125.00	
OA300ST-23003	FTA-018C322HF(03)	230VAC	\$150.00	
OA300ST-23004	FTA-018C322HF(04)	230VAC	\$175.00	
OA600ST-230	FTA-018C622(HF)	230VAC	\$240.00	
OA302	FTA-03220-018(BK)	230VAC	\$175.00	
OA602	FTA-06220-018(BK)	230VAC	\$275.00	
OA902	FTA-09220-018(BK)	230VAC	\$375.00	
OA300S-DV (short)	FTA-03DV-014(BK)	115/230	\$215.00	
OA600S-DV (short)	FTA-06DV-014(BK)	115/230	\$345.00	
OA300-DV	FTA-03DV-018(BK)	115/230	\$215.00	
OA600-DV	FTA-06DV-018(BK)	115/230	\$345.00	
OA900-DV	FTA-09DV-018(BK)	115/230	\$465.00	

AC Cros	saxial Blowers	S
eries No.	VAC	В

Series No.	VAC	Ball
OAB30098	115, 230	\$34.00
OAB30160	115, 230	\$37.50
OAB30198	115, 230	\$39.50
OAB30300	115, 230	\$40.50
OAB40098	115, 230	\$36.00
OAB40160	115, 230	\$40.00
OAB40198	115, 230	\$41.50
OAB40300	115, 230	\$42.50
OAB50098	115, 230	\$38.50
OAB50198	115, 230	\$44.50
OAB50298	115, 230	\$48.00
OAB50358	115, 230	\$51.00
OAB60184	115, 230	\$53.00
OAB60245	115, 230	\$55.00
OAB60306	115, 230	\$57.00
OAB60368	115, 230	\$58.50
OAB60429	115, 230	\$60.00

AC Blowers / Motorized Impellers			
Series No.	VAC	Ball	Sleeve
OAB190	115, 230	\$87.50	N/A
OAB220	115, 230	\$91.50	N/A
OAB22599	115, 230	\$100.00	N/A
OAB250	115, 230	\$97.00	N/A
OAB318	115, 230	\$160.00	N/A
OAB360	115, 230	\$225.00	N/A
OAB400	230	\$280.00	N/A
OAB800	115, 230	\$27.00	\$24.50
OAB908	115, 230	\$86.00	N/A
Duct Ring for DR190A	N/A	\$7.00	N/A
Duct Ring for DR220A	N/A	\$9.00	N/A
Duct Ring for DR22599	N/A	\$11.00	N/A
Duct Ring for DR250A	N/A	\$12.50	N/A
Duct Ring for DR318A	N/A	\$14.00	N/A
Duct Ring for DR360A	N/A	\$14.25	N/A
Duct Ring for DR400A	N/A	\$15.25	N/A

** Add \$3.00 to the OEM price each for special function DC fans: tachometer, thermal control, alarm and PWM

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DC Fan Trays			
Model No.	Part No.	VDC	Price
OD300S-12 (short)	FTD-03012-014(BK)	12VDC	\$200.00
OD600S-12 (short)	FTD-06012-014(BK)	12VDC	\$300.00
OD300-12	FTD-03012-018(BK)	12VDC	\$200.00
OD600-12	FTD-06012-018(BK)	12VDC	\$300.00
OD900-12	FTD-09012-018(BK)	12VDC	\$375.00
OD300S-24 (short)	FTD-03024-014(BK)	24VDC	\$200.00
OD600S-24 (short)	FTD-06024-014(BK)	24VDC	\$300.00
OD300-24	FTD-03024-018(BK)	24VDC	\$375.00
OD600-24	FTD-06024-018(BK)	24VDC	\$300.00
OD900-24	FTD-09024-018(BK)	24VDC	\$375.00
OD300S-48 (short)	FTD-03048-014(BK)	48VDC	\$220.00
OD600S-48 (short)	FTD-06048-014(BK)	48VDC	\$330.00
OD300-48	FTD-03048-018(BK)	48VDC	\$220.00
OD600-48	FTD-06048-018(BK)	48VDC	\$330.00
OD900-48	FTD-09048-018(BK)	48VDC	\$435.00

FAN ACCESSORIES				
Wir	Wire Finger Guards			
Part No.	Price	Part No.	Price	
G25-2	\$0.90	G119-8	\$1.45	
G40-2	\$1.00	G119-18B	\$1.75	
G50-3	\$1.10	G172-10HA	\$2.20	
G60-4	\$1.10	G172-10H	\$2.20	
G80-18	\$1.20	G172-10LN	\$2.50	
G80-18B	\$1.50	G180-11	\$3.50	
G92-16	\$1.20	G180-MG18	\$3.50	
G109-15A	\$1.20	G254-10P	\$3.50	
G109-15AB	\$1.50	G225	\$4.80	
G109-3	\$1.30	G280	\$5.70	

Wire Mesh Guards			
Part No.	Price	Part No.	Price
WMG60M	\$3.25	WMG120M	\$4.25
WMG60B	\$4.25	WMG120B	\$5.25
WMG80M	\$3.50	WMG127M	\$5.35
WMG80B	\$4.50	WMG172M	\$5.50
WMG92M	\$3.75	WMG172B	\$6.50
WMG92B	\$4.75		

Plastic Guards			
Part No.	Price	Part No.	Price
G40P	\$0.60	G92P	\$1.00
G60P	\$0.75	G120P	\$1.20
G80P	\$0.90	G172P	\$1.50

2-Conductor Fan Cords			
Part No.	Price	Part No.	Price
C45-12	\$1.50	C90-12	\$1.50
C45-24	\$1.75	C90-24	\$1.75
C45-24P	\$2.55	C90-36	\$2.00
C45-36	\$2.00	C90-48	\$2.25
C45-48	\$2.25	C90-72	\$2.75
C45-48P	\$3.05	C180T-12	\$1.50
C45-72	\$2.75	C180T-24	\$1.75
C45-72P	\$3.55	C180T-36	\$2.00
C45-144	\$4.15	C180T-48	\$2.25
C45-144P	\$4.95	C180T-72	\$2.75
C180-12	\$1.50	C45-2DC	\$2.75
C180-24	\$1.75	C45-3DC	\$3.75
C180-36	\$2.00	C45-4DC	\$4.75
C180-48	\$2.25	C45-6DC	\$5.75
C180-72	\$2.75	C45-9DC	\$9.75

Filter Kits			
Part No.	Price	Part No.	Price
GRM40-XX	\$1.30	GRM92-XX	\$2.00
GRM60-XX	\$1.50	GRM120-XX	\$2.35
GRM80-XX	\$1.70	GRM172-45	\$2.85

Louvered Fan Guards			
Part No.	Price	Filter Media Replacements (5/pk)	Price
LFG80	\$4.50	N/A	N/A
LFG92	\$4.50	N/A	N/A
LFG120B	\$5.75	LFG120BF/PK	\$4.25
LFG172B	\$7.00	LFG172BF/PK	\$5.50
LFG225B	\$32.17	LFG280BF/PK	\$11.13
LFG254B	\$15.75	LFG254BF/PK	\$9.23
LFG280B	\$38.25	LFG280BF/PK	\$11.13

Smart Switched PDUs		
Part No. Price		
OSP-V-20-11-16-N1	\$650.00	
OSP-V-16-23-16-N1	\$582.50	
OSP-H-16-23-08-N1	\$432.50	
OSP-H-15-11-08-N1	\$330.00	

Thermal Control Unit	
Part No. Price	
TCAC001 \$119.00	

* Pricing indicated is for OEM's and is for 100 pcs. For larger quantity pricing please check with one of our franchised distributors or with our customerservice. Check our website to locate a distributor in your area. Price in U.S. Dollars and subject to change without notice.



AC & DC Fans, Blowers and Trays

AC Fan Speed Control Unit		
Part No.	Price	
OA11/22CB	\$99.00	

Cage Nuts		
Part No.	Price	
OCN-1032	\$0.25	
OCN-1032PK (packs of 25)	\$5.42	
OCN-1032RH	\$0.27	
OCN-1032RHPK	\$5.42	
OCN-1032RHHDWPK	\$3.50	
OCN-1032SCW	\$0.10	
OCN-1032SCWPK	\$2.08	
OCN-1224	\$0.25	
OCN-1224PK	\$5.42	
OCN-1224SCW	\$0.10	
OCN-1224SCWPK	\$2.05	
OCN-1224WSPK	\$2.50	
OCN-M6	\$0.25	
OCN-M6PK	\$5.42	
OCN M6RH	\$0.25	
OCN-M6SCW	\$0.10	
OCN-M6SCWPK	\$2.05	

Air Flow Monitor Modules		
Part No.	Description	Price
AFM-01NC	Air Flow Monitor Switch, NC w/ clip and clamp	\$37.50
AFM-01NO	Air Flow Monitor Switch, NO w/ clip and clamp	\$37.50
AFM-80NC	Air Flow Monitor Switch, NC w/ 80mm guard	\$38.75
AFM-80NO	Air Flow Monitor Switch, NO w/ 80mm guard	\$38.75
AFM-92NC	Air Flow Monitor Switch, NC w/ 92mm guard	\$38.75
AFM-92NO	Air Flow Monitor Switch, NO w/ 92mm guard	\$38.75
AFM-120NC	Air Flow Monitor Switch, NC w/ 120mm guard	\$38.75
AFM-120NO	Air Flow Monitor Switch, NO w/ 120mm guard	\$38.75
AFM-KIT	Includes an AFM-01NC, clip, three plastic guards (80, 92, & 120mm), buzzer, LED and holder, switch and power supply.	\$70.00

Fan power cords are available in any length or configuration by special order. Please call us for a quote on your custom power cord requirements.

Add \$0.25 per foot for lengths in excess of 72 inches on standard fan cords and lengths in excess of 24 inches on daisy chains. Add \$0.80 for a NEMA 1-15P AC plug on any cord. (Use suffix "P") Add \$1.00 each for additional daisy chain cord head. *Pricing indicated is for OEM's and is for 100 pcs. For larger quantity pricing please check with one of our franchised distributors or with our customer service. Check our website to locate a distributor in your area. Price in U.S. Dollars and subject to change without notice.



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Knight Electronics Europe Stocking Location Solid State Supplies

