



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 18A, AC COIL 50/60HZ, 110VAC, 1NC AUXILIARY CONTACT



Product designation			Power contactor
Product type designation			BF18
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	32
Operational current le			
	AC-1 (≤40°C)	Α	32
	AC-1 (≤55°C)	Α	26
	AC-1 (≤70°C)	Α	23
	AC-3 (≤440V ≤55°C)	A	18
Detector of the state of the st	AC-4 (400V)	Α	8.5
Rated operational power AC-3 (T≤55°C)	0001/		4
	230V	kW	4
	400V	kW	7.5
	415V	kW	9
	440V	kW	9
	500V	kW	10
Detect energtional newer AC 1 (T<10°C)	690V	kW	10
Rated operational power AC-1 (T≤40°C)	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	0001	1000	
TEO Max outfolk to in Bo 1 with ETC = Title with 1 poles in conce	≤24V	Α	17
	48V	Α	15
	75V	Α	15
	110V	Α	6
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
'	≤24V	Α	20
	48V	Α	20
	75V	Α	20
	110V	Α	13
	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			_
·	≤24V	Α	22
	48V	Α	22
	75V	Α	20
	110V	Α	16





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	220V	Α	11
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	22
	48V	Α	22
	75V	Α	20
	110V	Α	18
	220V	Α	13
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	12
	48V	Α	11
	75V	Α	11
	110V	Α	2
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
·	≤24V	Α	15
	48V	Α	13
	75V	Α	13
	110V	Α	8
	220V	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
inde max can one to in 200 200 man 21x 2 forms man o polos in conce	≤24V	Α	18
	48V	A	18
	75V	A	16
	110V	A	12
	220V	A	6
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		0
TEO max current le in 200-2000 with E/N = 10ms with 4 poles in series	≤24V	Α	18
	48V	A	18
	75V	A	16
	110V	A	13
	220V	A	8
Short time allowable current for 10e (IEC/EN60047.1)	220 V	A	200
Short-time allowable current for 10s (IEC/EN60947-1) Protection fuse		A	200
Protection ruse	aC (IEC)	۸	20
	gG (IEC)	A	32
Maling and site (DMC value)	aM (IEC)	A	20
Making capacity (RMS value)		Α	180
Breaking capacity at voltage	4.403.4	Α.	4.4.4
	440V	A	144
	500V	A	120
	690V	Α	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			
	Ith	W	2.6
	AC3	W	0.8
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbin	1.1
	max	lbin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8



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		max	Ibft	0.74
	s simultaneously connectable		nr.	2
Conductor section				
	Flexible w/o lug conductor section			
		min	mm²	1
	·	max	mm²	6
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conduct			
		min	mm²	1
<u> </u>		max	mm²	4
	ection according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position				Manthalla
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Maight				
Weight	are et existing		g	358
Auxiliary contact cha	ITACIETISTICS			1 NC
Type of contact Thermal current Ith			Λ	10
	logicantion		Α	A600 - P600
IEC/EN 60947-5-1 c				A600 - P600
Operating current A	J15	2201/	٨	2
		230V	A	3
		400V	A	1.9
Operating ourrent D	C42	500V	A	1.4
Operating current D	O12	440\/	٨	r 7
On a ratio at a commant D	040	110V	A	5.7
Operating current De	U13	0.41/	۸	<i>-</i> -
		24V	A	5.7
		48V 60V	A	2.9
		110V	A	2.3 1.25
		110V 125V	A A	1.25
		220V	A	0.55
		600V	A	0.33
Operations		000 V		0.2
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
Safety related data			Cycles	100000
•	810d according to EN/ISO 13489-1			
. Shormande level L	7.04 4000rding to E14/100 10409-1	rated load	cycles	1600000
		mechanical load	cycles	2000000
Mirror contate accor	ding to IEC/EN 609474-4-1	moonamoa roau	0,0100	yes
EMC compatibility	ang to ILO/LIN 0007/ 4-4-1			yes
AC coil operating				y O O
Rated AC voltage at	50/60Hz 60Hz			
Maleu AU Vullaye al	00/00112, 00112	min	V	12
		max	V	600
		HidX	V	300

of 50/60Hz coil powered at 50Hz





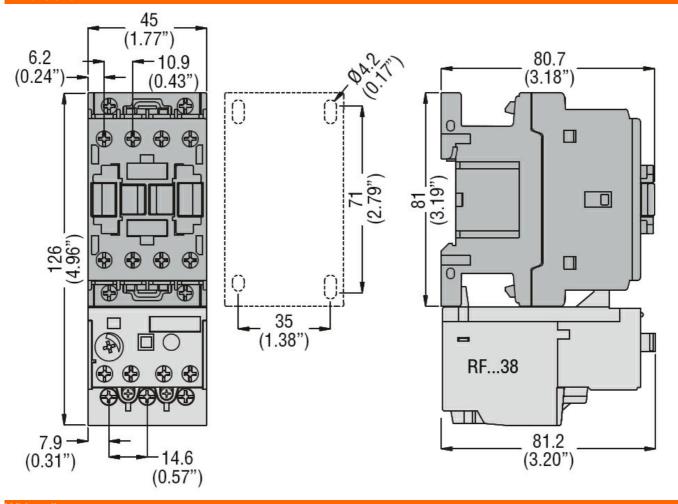
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pick-up			
	max	%Us	110
drop-out			
	min	%Us	20
(TO (OOL)	max	%Us	55
of 50/60Hz coil powered at 60Hz			
pick-up		0/11-	0.5
	min	%Us	85
draw aut	max	%Us	110
drop-out		0/116	20
	min	%Us	20
AC appraising voltage at 20°C	max	%Us	55
AC operating voltage at 20°C			
of 50/60Hz coil powered at 50Hz	in-rush	VA	75
of EO/GOLLZ goil powered at GOLLZ	holding	VA	9
of 50/60Hz coil powered at 60Hz	in ruch	١/٨	70
	in-rush	VA VA	
of GOLL and noward at GOLL	holding	VA	6.5
of 60Hz coil powered at 60Hz	in-rush	VA	75
Discinsting at holding 200°C FOLL	holding	VA W	2.5
Dissipation at holding ≤20°C 50Hz		VV	2.5
Max cycles frequency		ovoloo/b	2600
Mechanical operation Operating times		cycles/h	3600
Average time for Us control			
in AC			
Closing NO			
Closing No	min	ms	8
	max	ms	24
Opening NO	max	1110	24
Sporming 113	min	ms	10
	max	ms	20
Closing NC	max	1110	20
S.Somiy 110	min	ms	14
	max	ms	28
Opening NC	max	5	= •
Sporting IVO	min	ms	7
	max	ms	18
UL technical data			
Full-load current (FLA) for three-phase AC motor			
·	at 480V	Α	14
	at 480V at 600V	A A	14 17
Yielded mechanical performance for single-phase AC motor			
Yielded mechanical performance for single-phase AC motor	at 600V	A	17
Yielded mechanical performance for single-phase AC motor	at 600V	A hp	17
Yielded mechanical performance for single-phase AC motor for three-phase AC motor	at 600V	A hp	17
Yielded mechanical performance for single-phase AC motor for three-phase AC motor	at 600V 10/120V 230V	hp hp	17 1 3
Yielded mechanical performance for single-phase AC motor for three-phase AC motor 20 22	at 600V 10/120V 230V 00/208V	hp hp	17 1 3
Yielded mechanical performance for single-phase AC motor for three-phase AC motor 20 22 46	at 600V 10/120V 230V 20/208V 20/230V	hp hp	17 1 3 5 5

ENERGY AND AUTOMATION

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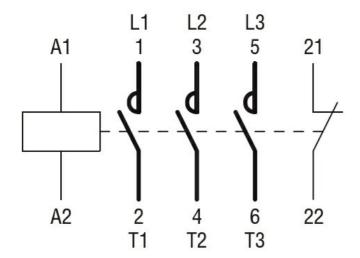
General USE				
	Contactor			
		AC current	Α	32
	Auxiliary contacts			
		AC voltage	V	600
		AC current	Α	10
		DC voltage	V	250
		DC current	Α	1
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Prote	ection			
Pollution degree				3
Dimensions				



Wiring diagrams

ENERGY AND AUTOMATION

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Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC