BF18T4A024



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 50/60HZ, 24VAC



Product designation			Power contactor
Product type designation			BF18
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage L	li	V	690
Rated impulse withstand	voltage Uimp	kV	6
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air therr	nal current Ith	А	32
Operating current			
	Operational current AC3 (≤440V ≤55°C)	А	18
	Operational current AC4 (400V)	А	8.5
Short-time allowable curre	ent for 10s (IEC/EN60947-1)	А	200
Protection fuse			
	gG (IEC)	А	32
	aM (IEC)	А	20
Making capacity (RMS val	ue)	А	180
Breaking capacity at volta	ge		
	Breaking capacity 440V	А	144
	Breaking capacity 500V	А	120
	Breaking capacity 690V	А	94
Resistance per pole (aver	age value)	mΩ	2.5
Power dissipation per pole	e (average value)		
	Power dissipation pole (average value) Ith	W	2.6
	AC3	W	0.8
Tightening torque for term	inals		
	min	Nm	1.5
	max	Nm	1.8
	min	lbft	1.1
	max	lbft	1.5
Tightening torque for coil			
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.59
	max	lbft	0.74
max number of wires simu	ultaneously connectable	nr.	2
Conductor section			
A	WG		
	min		16
	max		10
F	lexible w/o lug conductor section	~	
	min	mm²	1
_	max	mm²	6

Flexible c/w lug conductor section

ENERGY AND AUTOMATION

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		_	_	
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section		2	
		min	mm²	1
Devuer terminel protecti	en essenting to IEC/EN COEOO	max	mm²	4
	on according to IEC/EN 60529			IP20
Auxiliary contact charac	lensucs			1 NA
Type of contact Thermal current Ith			A	32
IEC/EN 60947-5-1 desig	anation		A	A600
Ambient conditions	gnation			A000
Temperature				
remperature	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature	тах	Ū	10
		min	°C	-60
		max	°Č	80
Max altitude			m	3,000
Operating position				
epoisting poolion		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Mounting				35mm
Weight			g	0.367
Operations				
Mechanical life			Cualaa	20,000,000
in our literation in o			Cycles	20,000,000
Electrical life			Cycles	1600000
Electrical life Safety related data	d according to EN/ISO 13489-1 -			
Electrical life Safety related data	Performance level B10d acco	•	Cycles	1600000 -11 0:0:ed00 ad
Electrical life Safety related data Performance level B10c	Performance level B10d acco Performance level B10d acco	•	Cycles	1600000 -11 0:0:ed00 ad
Electrical life Safety related data	Performance level B10d acco Performance level B10d acco	•	Cycles	1600000 -110000000ad -12000000000000000000000000000000000000
Electrical life Safety related data Performance level B100 Mirror contats according EMC compatibility	Performance level B10d acco Performance level B10d acco	•	Cycles	1600000 -110006000ad -120000000cal load
Electrical life Safety related data Performance level B10c Mirror contats according EMC compatibility AC coil operating	Performance level B10d acco Performance level B10d acco g to IEC/EN 609474-4-1	•	Cycles	1600000 -110000000ad -12000000000000000000000000000000000000
Electrical life Safety related data Performance level B100 Mirror contats according EMC compatibility	Performance level B10d acco Performance level B10d acco g to IEC/EN 609474-4-1	rding to EN/IS	Cycles COCI6489 COCI6489	1600000 -11000e000ad -1200000000cal load Yes Yes
Electrical life Safety related data Performance level B10c Mirror contats according EMC compatibility AC coil operating	Performance level B10d acco Performance level B10d acco g to IEC/EN 609474-4-1	rding to EN/IS	Cycles COCI26489 COCI26489	1600000 -1100006000ad -12000000000000000000000000000000000000
Electrical life Safety related data Performance level B10c Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 50/	Performance level B10d acco Performance level B10d acco g to IEC/EN 609474-4-1	rding to EN/IS	Cycles COCI6489 COCI6489	1600000 -11000e000ad -1200000000cal load Yes Yes
Electrical life Safety related data Performance level B10c Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 50/ AC operating voltage	Performance level B10d acco Performance level B10d acco g to IEC/EN 609474-4-1 /60Hz, 60Hz	rding to EN/IS	Cycles COCI26489 COCI26489	1600000 -1100006000ad -12000000000000000000000000000000000000
Electrical life Safety related data Performance level B10c Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 50/ AC operating voltage	Performance level B10d acco Performance level B10d acco g to IEC/EN 609474-4-1 /60Hz, 60Hz of 50/60Hz coil powered at 50Hz	rding to EN/IS	Cycles COCI26489 COCI26489	1600000 -1100006000ad -12000000000000000000000000000000000000
Electrical life Safety related data Performance level B10c Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 50/ AC operating voltage	Performance level B10d acco Performance level B10d acco g to IEC/EN 609474-4-1 /60Hz, 60Hz	rding to EN/IS min max	Cycles 500166489 500166489 V V	1600000 -110000000ad -1200000000cal load Yes Yes 12 600
Electrical life Safety related data Performance level B10c Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 50/ AC operating voltage	Performance level B10d acco Performance level B10d acco g to IEC/EN 609474-4-1 /60Hz, 60Hz of 50/60Hz coil powered at 50Hz	rding to EN/IS min max	Cycles 600164489 600164489 V V V	1600000 -110006000ad -1200000000cal load Yes Yes 12 600
Electrical life Safety related data Performance level B10c Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 50/ AC operating voltage	Performance level B10d acco Performance level B10d acco g to IEC/EN 609474-4-1 /60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	rding to EN/IS min max	Cycles 500166489 500166489 V V	1600000 -110000000ad -1200000000cal load Yes Yes 12 600
Electrical life Safety related data Performance level B10c Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 50/ AC operating voltage	Performance level B10d acco Performance level B10d acco g to IEC/EN 609474-4-1 /60Hz, 60Hz of 50/60Hz coil powered at 50Hz	min max min max	Cycles COCI26489 COCI26489 V V V V V S S S S S S S S S S S S S S	1600000 -11000e000ad -120000000cal load Yes Yes 12 600 80 110
Electrical life Safety related data Performance level B10c Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 50/ AC operating voltage	Performance level B10d acco Performance level B10d acco g to IEC/EN 609474-4-1 /60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	rding to EN/IS min max min max min	Cycles COCI26489 COCI26489 V V V V V S %Us %Us	1600000 -110006000ad -1200000000cal load Yes Yes 12 600 80 110 20
Electrical life Safety related data Performance level B10c Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 50/ AC operating voltage	Performance level B10d acco Performance level B10d acco g to IEC/EN 609474-4-1 /60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	min max min max	Cycles COCI26489 COCI26489 V V V V V S S S S S S S S S S S S S S	1600000 -11000e000ad -120000000cal load Yes Yes 12 600 80 110
Electrical life Safety related data Performance level B10c Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 50/ AC operating voltage	Performance level B10d acco Performance level B10d acco g to IEC/EN 609474-4-1 /60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	rding to EN/IS min max min max min	Cycles COCI26489 COCI26489 V V V V V S %Us %Us	1600000 -110006000ad -1200000000cal load Yes Yes 12 600 80 110 20
Electrical life Safety related data Performance level B10c Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 50/ AC operating voltage	Performance level B10d acco Performance level B10d acco g to IEC/EN 609474-4-1 /60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	min max min max min max	Cycles COCI 26489 COCI 26489 V V V V V V S S Us %Us %Us %Us	1600000 -11000e000ad -120000000cal load Yes Yes 12 600 80 110 20 55
Electrical life Safety related data Performance level B10c Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 50/ AC operating voltage	Performance level B10d acco Performance level B10d acco g to IEC/EN 609474-4-1 /60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	min min max min max min max min max	Cycles 50018489 50018489 701858 70185	1600000 -110006000ad -1200000000cal load Yes Yes 12 600 80 110 20 55 85
Electrical life Safety related data Performance level B10c Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 50/ AC operating voltage	Performance level B10d acco Performance level B10d acco g to IEC/EN 609474-4-1 /60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	min max min max min max	Cycles COCI 26489 COCI 26489 V V V V V V S S Us %Us %Us %Us	1600000 -11000e000ad -120000000cal load Yes Yes 12 600 80 110 20 55
Electrical life Safety related data Performance level B10c Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 50/ AC operating voltage	Performance level B10d acco Performance level B10d acco g to IEC/EN 609474-4-1 /60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	min max min max min max min max	Cycles COCI 6489 COCI 66489 COCI 66489 V V V V V V V S S S S S S S S S S S S	1600000 -110006000ad -1200000000cal load Yes Yes 12 600 80 110 20 55 85 110
Electrical life Safety related data Performance level B10c Mirror contats according EMC compatibility AC coil operating Rated AC voltage at 50/ AC operating voltage	Performance level B10d acco Performance level B10d acco g to IEC/EN 609474-4-1 /60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	min min max min max min max min max	Cycles 50018489 50018489 701858 70185	1600000 -110006000ad -1200000000cal load Yes Yes 12 600 80 110 20 55 85

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	of 60Hz coil powered at 60Hz			
	, pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
	•	min	%Us	20
		max	%Us	55
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz	Ŭ	W	2.5
Max cycles frequency				
Mechanical operations			Cycles/h	3,600
Operating times			ý	
Average time for Us c	ontrol			
0	in AC			
	Closing NO			
	5	min	ms	8
		max	ms	24
	Opening NO			
	1 0	min	ms	10
		max	ms	20
	Closing NC			
	Ű	min	ms	14
		max	ms	28
	Opening NC			
		min	ms	7
		max	ms	18
UL technical data				
) for three-phase AC motor			
		at 480V	А	14
		at 600V	А	17
Yielded mechanical pe	erformance			
	for single-phase AC motor			
	U	at 110/120V	hp	1
		at 230V	, hp	3
	for three-phase AC motor		•	
		at 200/208V	hp	5
		at 220/230V	hp	5
		at 460/480V	hp	10
		at 575/600V	, hp	15
Contact rating of auxili	iary contacts according to UL		•	SI - A600
General USE				
	Contactor			
		AC current	А	32
	Auxiliary contacts			
		AC voltage	V	600
		e renage	-	

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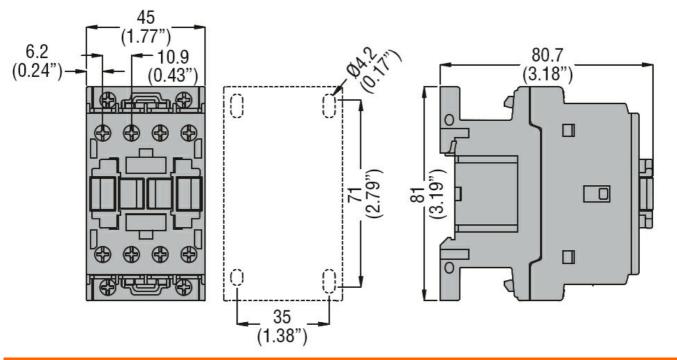
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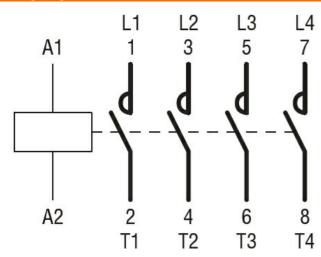
Dimensions

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 50/60HZ, 24VAC

AC current DC voltage DC current	V	250	



Wiring diagrams



Certifications and compliance

Certifications	
	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
Compliance	
	CCC
	cULus
	EAC
ETIM 6 classificat	lion

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EC000066 - Power contactor, AC switching