

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, DC COIL LOW CONSUMPTION, 48VDC, 4NC



Product designation Product type designation			Power contactor BF18
Contact characteristics			5. 10
Number of poles		Nr.	4
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)	Α	18
	AC-4 (400V)	Α	8.5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
Short-time allowable current for 10s (IEC/EN60947-1)		Α	200
Protection fuse			
	gG (IEC)	Α	32
	aM (IEC)	Α	20
Making capacity (RMS value)		Α	180
Breaking capacity at voltage			
	440V	Α	144
	500V	Α	120
	690V	Α	94
Resistance per pole (average value)		$m\Omega$	2.5
Power dissipation per pole (average value)			
	Ith	W	2.6
	AC-3	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	Ibin	0.8
	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2



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0			
Conductor section	AWG/Kcmil		
	max		10
	Flexible w/o lug conductor section		
	min	mm²	1
	max	mm²	6
	Flexible c/w lug conductor section	2	4
	min max	•	1 4
	Flexible with insulated spade lug conductor section	111111	4
	min	mm²	1
	max	_	4
Power terminal prote	ction according to IEC/EN 60529		IP20 when properly wired
Mechanical features			properly wired
Operating position			
	normal		Vertical plan
	allowable		±30°
ixing			Screw / DIN rail 35mm
Weight		g	496
Auxiliary contact char	acteristics	^	22
Thermal current Ith	opignation	A	32 A600 - P600
EC/EN 60947-5-1 de	esignation		A600 - P600
Mechanical life		cycles	20000000
Electrical life		cycles	1600000
Safety related data			
Performance level B	10d according to EN/ISO 13489-1		
	rated load	cycles	1600000
EMC compatibility	mechanical load	cycles	20000000
EMC compatibility OC coil operating			yes
DC rated control volta	age	V	48
OC operating voltage			
	pick-up		
	min		80
	max	%Us	110
	drop-out	0/115	10
	min max	%Us %Us	10 40
Average coil consum		/003	τυ
G - 22 2224	in-rush	W	2.4
	holding	W	2.4
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times	control		
Average time for Us of	control in AC		
	Closing NO		
	min	ms	8
	max		24
	Opening NO		
	min	ms	10



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			max	ms	20
		Closing NC			
		-	min	ms	14
			max	ms	28
		Opening NC			
			min	ms	7
			max	ms	18
	in DC				
		Closing NC			
		· ·	min	ms	24
			max	ms	30
		Opening NC			
			min	ms	67
			max	ms	81
UL technical data					
Rated operational volt	age AC (UL)			V	600
) for three-phase AC mot	tor			
(,		at 480V	Α	14
			at 600V	Α	17
Yielded mechanical p	erformance		at 000 v	- / \	
Holded Meditalitedi p	for single-phase AC m	notor			
	ioi sirigic priase Ao ii	iotoi	110/120V	HP	1
			230V	HP	3
	for three-phase AC mo	ntor	230 V	1115	
	ioi tillee-pilase AC ill	Jioi	200/208V	HP	5
			200/200V 220/230V	HP	5
			460/480V	HP	
					10
General USE			575/600V	HP	15
General USE	0				
	Contactor		10		00
	A 111		AC current	Α	32
	Auxiliary contacts		A O 11		222
			AC voltage	V	600
			AC current	Α	10
			DC voltage	V	250
			DC current	Α	1
	iary contacts according to	o UL			SI - A600
Ambient conditions					
Temperature					
	Operating temperature	9			
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protecti	on				
Pollution degree					3
Certifications and con	npliance				
Compliance					
•	CSA C22.2 n° 60947-	1			
	CSA C22.2 n° 60947-				
	IEC/EN/BS 60947-1	• •			
	IEC/EN/BS 60947-4-1				
	1EC/EIN/D3 60947-4-1				



BF18T0L048

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UL 60947-1

UL 60947-4-1

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching