



### FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 60HZ, 460VAC, 2NO AND 2NC



Product designation Power contactor Product type designation **BF18** Contact characteristics Nr. 4 Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 Rated impulse withstand voltage Uimp kV 6 Operational frequency Н 25 min Hz 400 max IEC Conventional free air thermal current Ith 32 Α 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) 8.5 Rated operational power AC-1 (T≤40°C) kW 12 230V 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 Α Making capacity (RMS value) 180 Breaking capacity at voltage 440V Α 144 500V Α 120 690V Α 94  $m\Omega$ 2.5 Resistance per pole (average value) Power dissipation per pole (average value) W 2.6 Ith AC-3 W 8.0 Tightening torque for terminals min Nm 1.5 Nm max 1.8 min Ibin 1.1 1.5 Ibin max Tightening torque for coil terminal min Nm 0.8 max Nm 1 Ibin 0.8 min max Ibin 0.74 2 Max number of wires simultaneously connectable Nr.



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Conductor section	ANAO (14		
	AWG/Kcmil max		10
	Flexible w/o lug conductor section		10
	min	mm²	1
	max	mm²	6
	Flexible c/w lug conductor section		
	min	mm²	1
	max	mm²	4
	Flexible with insulated spade lug conductor section	mm²	1
	min max	mm²	1 4
		1000	IP20 when
Power terminal protection according to IEC/EN 60529			properly wired
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight		g	1400
Conductor section	AVAC (1		
	AWG/kcmil conductor section		10
Operations	max		10
Mechanical life		cycles	20000000
Electrical life		cycles	1600000
Safety related data		,	
Performance level B10	Od according to EN/ISO 13489-1		
	rated load	cycles	1600000
	mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1		YES
EMC compatibility			yes
AC coil operating Rated AC voltage at 60		V	460
AC operating voltage	JI IZ	V	400
710 operating vertage	of 60Hz coil powered at 60Hz		
	pick-up		
	min	%Us	80
	max	%Us	110
	drop-out		
	min	%Us	20
A O	max	%Us	55
AC average coil consu	·		
	of 60Hz coil powered at 60Hz in-rush	VA	75
	holding	VA VA	9
Dissipation at holding :		W	2.5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times		-	
Average time for Us co	ontrol		
	in AC		



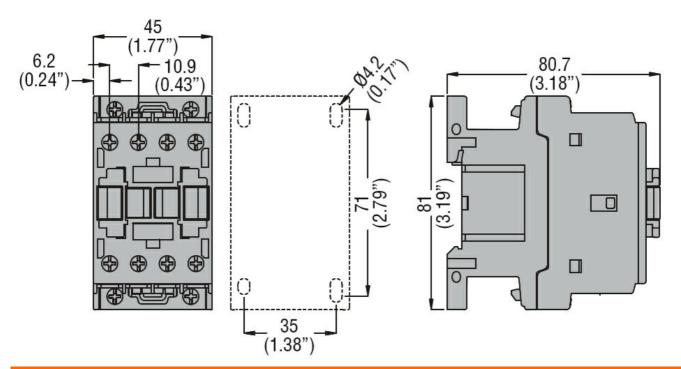


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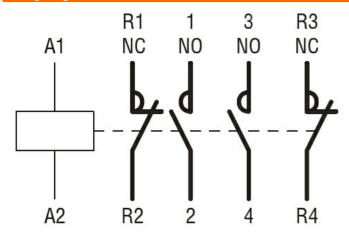
	Closing NO			
	<b>G</b>	min	ms	8
		max	ms	24
	Opening NO			
	- Fr.m. 9	min	ms	10
		max	ms	20
	Closing NC			
	closing its	min	ms	14
		max	ms	28
	Opening NC	max	1113	20
	Opening NO	min	ms	7
		max	ms	18
UL technical data		Шах	1115	10
	for three phase AC mater			
rull-load current (FLA)	) for three-phase AC motor	-4 400\/	^	4.4
		at 480V	A	14
		at 600V	A	17
Yielded mechanical pe				
	for single-phase AC motor			
		110/120V	HP	1
		230V	HP	3
	for three-phase AC motor			
		200/208V	HP	5
		220/230V	HP	5
		460/480V	HP	10
		575/600V	HP	15
General USE				
	Contactor			
		AC current	Α	32
Ambient conditions				
Temperature				
· Simporataro	Operating temperature			
	Sporating temperature	min	°C	-50
		max	°C	70
	Storage temperature	IIIdX		10
	Storage temperature	noi-	°C	-60
		min		
NA100 L		max	°C	80
Max altitude			m	3000
Resistance & Protection	on			
Pollution degree				3
Dimensions				

**ENERGY AND AUTOMATION** 

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#### Wiring diagrams



#### Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

#### ETIM classification

**ETIM 8.0** 

EC000066 -Power contactor, AC switching