

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, DC COIL LOW CONSUMPTION, 24VDC, 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 lth AC3 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.

1/4



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Conductor section	ANA/C///care:1			
	AWG/Kcmil	max		10
	Flexible w/o lug conductor section	IIIdx		10
	Toxisio W/o lug defiduater decitori	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			
		min	mm²	1
_		max	mm²	4
Power terminal protect	ction according to IEC/EN 60529			IP20 when properly wired
Mechanical features				properly whed
Operating position				
. 31		normal		Vertical plan
	i	allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	500
Conductor section				
	AWG/kcmil conductor section			
		max		10
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
Safety related data	10d according to EN/ISO 13489-1			
r enormance level bi		ated load	cycles	1600000
		nical load	cycles	20000000
Mirror contats accord	ing to IEC/EN 609474-4-1			YES
EMC compatibility				yes
DC coil operating				
DC rated control volta	age		V	24
DC operating voltage				
	pick-up			
		min	%Us	80
	_ 	max	%Us	110
	drop-out	مناسم	0/11-	10
		min	%Us %Us	10 40
Average coil consum	ntion <20°C	max	/008	+0
	PHOTI -20 O			
Average con consum,		in-rush	W	2 4
Average con consum		in-rush holdina	W W	2.4 2.4
		in-rush holding	W W	2.4 2.4
Max cycles frequency	!			2.4
Max cycles frequency Mechanical operation	!		W	2.4
Max cycles frequency Mechanical operation Operating times	, ,		W	2.4
Max cycles frequency Mechanical operation Operating times	control in AC		W	2.4
Max cycles frequency Mechanical operation Operating times	control	holding	W	3600
Max cycles frequency Mechanical operation Operating times Average time for Us of	control in AC		W	2.4



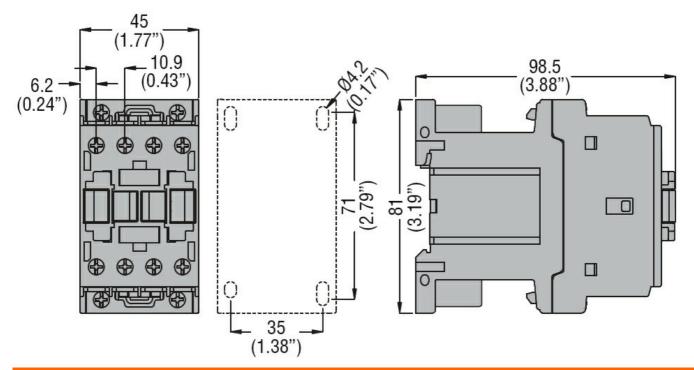


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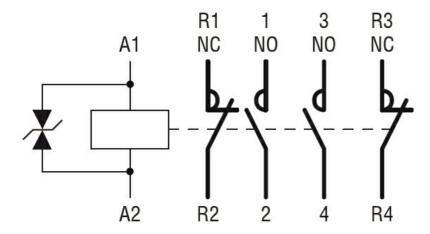
		Opening NO			
		oponing 110	min	ms	10
			max	ms	20
		Closing NC			
		5.55 g 5	min	ms	14
			max	ms	28
		Opening NC			
		-1- 5 -	min	ms	7
			max	ms	18
	in DC				
		Closing NO			
		J	min	ms	75
			max	ms	91
		Opening NO			
		, ,	min	ms	15
			max	ms	19
		Closing NC		-	
		J	min	ms	24
			max	ms	30
		Opening NC			
		opag	min	ms	67
			max	ms	81
UL technical data					
) for three-phase AC mo	tor			
,	, 1		at 480V	Α	14
			at 600V	Α	17
Yielded mechanical po	erformance				
, , , , , , , , , , , , , , , , , , ,	for single-phase AC m	notor			
	g.e p		110/120V	HP	1
			230V	HP	3
	for three-phase AC me	otor			
	, , , , , , , , , , , , , , , , , , ,		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					
•	Operating temperature	9			
			min	°C	-50
			max	°C	70
	Storage temperature				
	5 · p · · · · · · · · · · · · · · · · ·		min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protecti	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