

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			
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)		mΩ	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	Ibin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8
	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2



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Conductor section	AVAIC /// are il		
	AWG/Kcmil ma:	v	10
	Flexible w/o lug conductor section	^	10
	min	n mm²	1
	ma	_	6
	Flexible c/w lug conductor section		
	miı	n mm²	1
	ma	x mm²	4
	Flexible with insulated spade lug conductor section		
	miı		1
_	ma:	x mm²	4
Power terminal protect	ction according to IEC/EN 60529		IP20 when properly wired
Mechanical features			property whed
Operating position			
. 51	norma	ıl	Vertical plan
	allowable	Э	±30°
Fixing			Screw / DIN rail 35mm
Weight		g	500
Conductor section			
	AWG/kcmil conductor section		
	ma.	X	10
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	1600000
Safety related data	10d according to EN/ISO 13489-1		
r enormance level b	rated load	d cycles	1600000
	mechanical load	•	2000000
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		
	miı		80
	ma.	x %Us	110
	drop-out	0/11-	40
	miı	n %Us	10
		v 0/11a	40
Average coil consum	ma	x %Us	40
Average coil consum	ma: ption ≤20°C		
Average coil consum	ma. ption ≤20°C in-rusl	n W	2.4
	ma ption ≤20°C in-rusl holdin	n W	
Max cycles frequency	ma: ption ≤20°C in-rusl holding	n W	2.4 2.4
Max cycles frequency Mechanical operation	ma: ption ≤20°C in-rusl holding	n W g W	2.4 2.4
Max cycles frequency Mechanical operation Operating times	ma: ption ≤20°C in-rusl holding	n W g W	2.4 2.4
Average coil consum Max cycles frequency Mechanical operation Operating times Average time for Us of	ma: ption ≤20°C in-rusl holding control in AC	n W g W	2.4 2.4
Max cycles frequency Mechanical operation Operating times	materion ≤20°C in-rust holding control in AC Closing NO	n W g W cycles/h	2.4 2.4 3600
Max cycles frequency Mechanical operation Operating times	ma: ption ≤20°C in-rusl holding control in AC	n W g W cycles/h	2.4 2.4



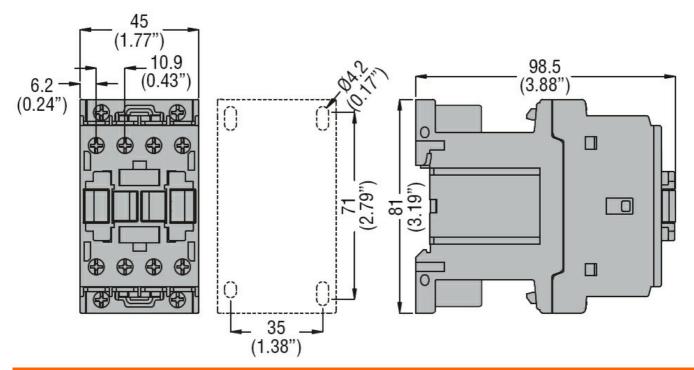


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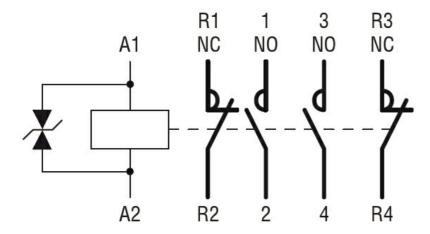
		Opening NO			
		oponing 110	min	ms	10
			max	ms	20
		Closing NC			
		5.55 g 5	min	ms	14
			max	ms	28
		Opening NC			
		-1- 5 -	min	ms	7
			max	ms	18
	in DC				
		Closing NO			
		J	min	ms	75
			max	ms	91
		Opening NO			
		, ,	min	ms	15
			max	ms	19
		Closing NC		-	
		J	min	ms	24
			max	ms	30
		Opening 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			
			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