

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, DC COIL, 12VDC, 2NO AND 2NC



Product designation Product type designation			Power contactor BF18
Contact characteristics			Ы 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)		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	lbin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8
	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2



BF18T2D012

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Conductor section	AWG/Kcmil			
	AVVG/RCIIII	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		•	
		min	mm²	1
		max	mm²	4 ID20 where
Power terminal protect	ction according to IEC/EN 60529			IP20 when properly wired
Mechanical features				property wiled
Operating position				
. 01		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	495
Conductor section				
	AWG/kcmil conductor section			
		max		10
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
Safety related data	0d according to EN/ISO 13489-1			
enomiance level b	od according to EN/130 13489-1	rated load	cycles	1600000
		mechanical load	cycles	20000000
Mirror contats accord	ing to IEC/EN 609474-4-1		-,	YES
EMC compatibility				yes
DC coil operating				
DC rated control volta	ige		V	12
OC operating voltage				
	pick-up			
		min	%Us	70
	- -	max	%Us	125
	drop-out		0/11-	10
		min	%Us %Us	10 40
Average coil consum	otion <20°C	max	/oUS	40
Trolage coll colladill	50511 - 20 0	in-rush	W	5.4
		holding	W	5.4
Max cycles frequency	,			
Mechanical operation			cycles/h	3600
Operating times	control			
Operating times	in AC			
Operating times				
Operating times Average time for Us o	in AC	IO min max	ms ms	8 24

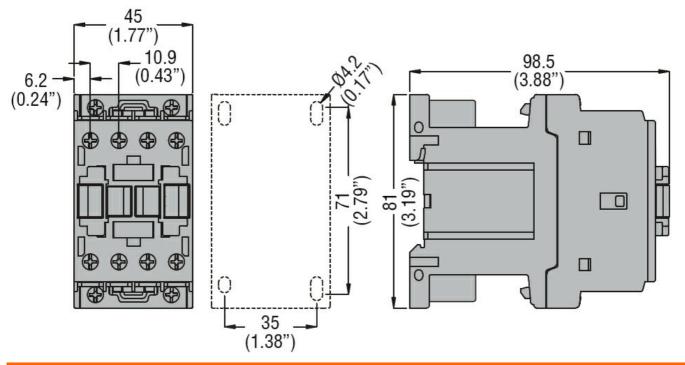


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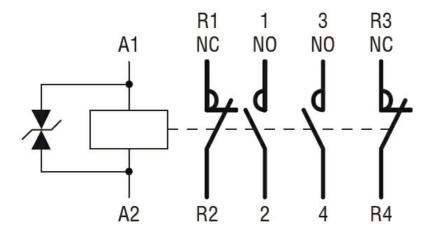
		Opening NO			
		-1- 3 -	min	ms	10
			max	ms	20
		Closing NC			
		· ·	min	ms	14
			max	ms	28
		Opening NC			
			min	ms	7
			max	ms	18
	in DC				
		Closing NO			
			min	ms	54
			max	ms	66
		Opening NO			
			min	ms	14
			max	ms	17
		Closing NC			
		-	min	ms	24
			max	ms	30
		Opening NC			
			min	ms	47
			max	ms	57
UL technical data					
Full-load current (FLA)	for three-phase AC mot	or			
			at 480V	Α	14
			at 600V	Α	17
Yielded mechanical pe	rformance				_
	for single-phase AC m	otor			
			110/120V	HP	1
			230V	HP	3
	for three-phase AC mo	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	•			
			min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	n				
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