**ENERGY AND AUTOMATION** 

## FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, DC COIL, 125VDC,



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)	A	18
D. I. J. and C. and C. A. (T. (1000))	AC-4 (400V)	Α	8.5
Rated operational power AC-1 (T≤40°C)	0001/	1-147	40
	230V	kW	12
	400V	kW	21
	500V 690V	kW kW	26 36
Short-time allowable current for 10s (IEC/EN60947-1)	090 V	A	200
Protection fuse			200
Flotection luse	gG (IEC)	Α	32
	aM (IEC)	A	20
Making capacity (RMS value)	aw (ILO)	A	180
Breaking capacity at voltage		,,	100
broaking dapatity at voltage	440V	Α	144
	500V	A	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	Ibin	0.8
	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2

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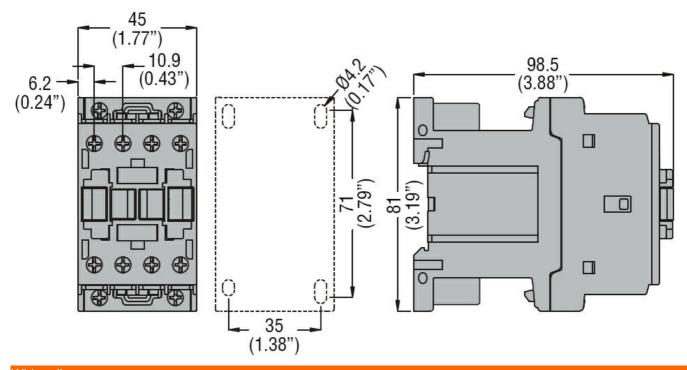
Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section		2	
		min	mm²	1
	Flexible c/w lug conductor section	max	mm²	6
	Flexible C/W lug colludctor section	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor s			-т
	r ionisio mar modiated spade rag corrector o	min	mm²	1
		max	mm²	4
Power terminal prote	ction according to IEC/EN 60529			IP20 when
Mechanical features				properly wired
Operating position				
sporating position		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	496
Auxiliary contact char	acteristics		9	400
Thermal current Ith			А	32
EC/EN 60947-5-1 de	esignation			A600 - P600
Operations	3			
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
		mechanical load	cycles	20000000
EMC compatibility				yes
OC coil operating			V	405
DC rated control voltage DC operating voltage			V	125
operating voltage	pick-up			
	pick-up	min	%Us	70
		max	%Us	125
	drop-out	max	,,,,,,	
		min	%Us	10
		max	%Us	40
Average coil consum	ption ≤20°C			
-	-	in-rush	W	5.4
		holding	W	5.4
Max cycles frequency	<u>'</u>			
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us				
	in AC			
	Closing NO			
		min	ms	8
	2	max	ms	24
	Opening NO	max min	ms ms	10

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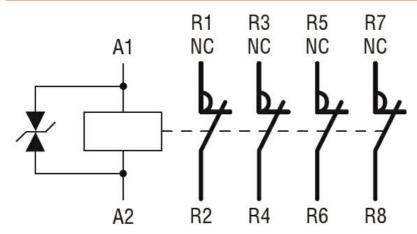
			max	ms	20
		Closing NC			
			min	ms	14
			max	ms	28
		Opening NC			
		. 0	min	ms	7
			max	ms	18
	in DC				
		Closing NC			
		Ü	min	ms	24
			max	ms	30
		Opening NC			
		5 p 2 m 2 m 2	min	ms	47
			max	ms	57
UL technical data			тисх	1110	
Rated operational vo	Itage AC (LIL)			V	600
Full-load current (FL/		AC motor		v	300
i dii-idad Cullelit (FL/	ny ioi unice-pnase	AO IIIOIOI	at 480V	Α	14
Vialdad saabaaisad s			at 600V	A	17
Yielded mechanical p					
	for single-phas	se AC motor	440/400		
			110/120V	HP	1
			230V	HP	3
	for three-phase	e 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
	Auxiliary contact	cts			
			AC voltage	V	600
			AC current	Α	10
			DC voltage	V	250
			DC current	Α	1
Contact rating of aux	iliary contacts acco	ording to UL			SI - A600
Ambient conditions					
Temperature					
•	Operating temp	perature			
			min	°C	-50
			max	°C	70
	Storage tempe	rature			
	3 17-		min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protect	tion				
Pollution degree					3
Dimensions					
Difficiliation 19					



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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