

# FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, DC COIL LOW CONSUMPTION, 12VDC, 4NC



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			
-1	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)		A	200
Protection fuse			
	gG (IEC)	Α	32
<del> </del>	aM (IEC)	Α	20
Making capacity (RMS value)		Α	180
Breaking capacity at voltage		_	
	440V	Α	144
	500V	Α	120
	690V	A	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)	Tal.	147	2.0
	Ith	W	2.6
Tightoning targue for terminals	AC-3	W	0.8
Tightening torque for terminals		Nl	1 5
	min	Nm Nm	1.5
	max min	Nm Ibin	1.8
		Ibin	1.1 1.5
Tightening torque for coil terminal	max	וווטוו	1.0
ngmening torque for contentinal	min	Nm	0.8
	min max	Nm Nm	0.8 1
	min	Ibin	0.8
	111111	ווועו	0.0
	max	lbin	0.74



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0				
Conductor section	AWG/Kcmil			
		ax		10
	Flexible w/o lug conductor section			
	n	nin	mm²	1
		ax	mm²	6
	Flexible c/w lug conductor section	_	•	
		nin	mm²	1
		ax	mm²	4
	Flexible with insulated spade lug conductor section	nin	mm²	1
		ax	mm²	4
Power terminal prote	ction according to IEC/EN 60529			IP20 when
Mechanical features				properly wired
Operating position				
	norm	nal		Vertical plan
	allowat			±30°
ixing				Screw / DIN rail 35mm
Weight			g	508
Auxiliary contact char	racteristics		<u> </u>	
Thermal current Ith			Α	32
EC/EN 60947-5-1 de	esignation			A600 - P600
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
Safety related data	10d according to FN/ISO 12490 1			
Performance level B	10d according to EN/ISO 13489-1 rated lo	ad	cycles	1600000
	mechanical lo		cycles	2000000
EMC compatibility	modianicalio		0,0100	yes
OC coil operating				,
DC rated control volta	age		V	12
OC operating voltage	)			
	pick-up			
		nin	%Us	80
		ax	%Us	110
	drop-out	nin.	0/11-	10
		nin ax	%Us %Us	10 40
Average coil consum		uΛ	/008	70
Siago oon oonsan	in-ru	sh	W	2.4
	holdi		W	2.4
Max cycles frequency		Ž		
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us of	control in AC			
	Closing NO			
		nin	ms	8
		ax	ms	24
	Opening NO			
	, -	nin	ms	10

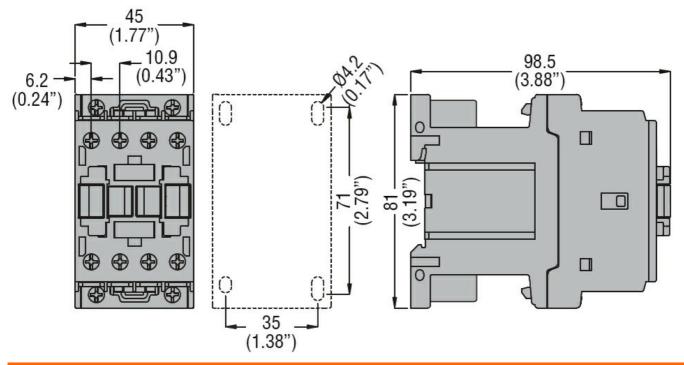


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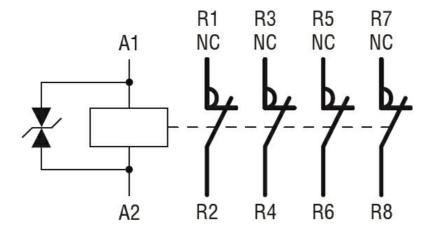
			max	ms	20
		Closing NC			
		5.55m.g	min	ms	14
			max	ms	28
		Opening NC	Παλ	1113	20
		Opening NC			7
			min	ms	7
			max	ms	18
	in DC				
		Closing NC			
			min	ms	24
			max	ms	30
		Opening NC			
			min	ms	67
			max	ms	81
UL technical data					
Rated operational v	voltage AC (LIL)			V	600
	LA) for three-phase	AC motor		v	300
i uli-loau cullelil (F	LA) for timee-phase	AO IIIOIOI	o+ 400\/	٨	1.4
			at 480V	Α	14
			at 600V	Α	17
Yielded mechanica	•				
	for single-phas	se AC motor			
			110/120V	HP	1
			230V	HP	3
	for three-phas	e AC motor			_
			200/208V	HP	5
			220/230V	HP	5
			460/480V	HP	10
				HP	
0			575/600V	ПР	15
General USE	•				
	Contactor				
			AC current	Α	32
	Auxiliary conta	acts			
			AC voltage	V	600
			AC current	Α	10
			DC voltage	V	250
			DC current	Α	1
Contact rating of au	uxiliary contacts acc	ording to UL			SI - A600
Ambient conditions					3
Temperature	<u> </u>			<del>_</del>	
Tomporature	Operating tem	nerature			
	Operating term	perature	ma:	°C	<b>5</b> 0
			min	°C	-50 -70
	<u> </u>		max	°C	70
	Storage temper	erature			
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Prote	ection				
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