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



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

1/4



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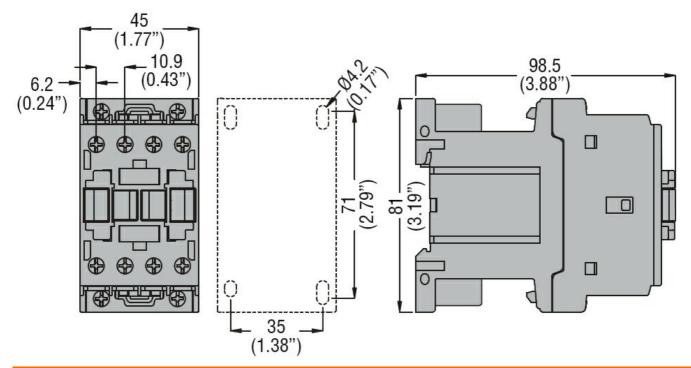
Conductor section				
Conductor Section	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section			
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section	max		т
	The second secon	min	mm²	1
		max	mm²	4
Power terminal protect	ction according to IEC/EN 60529			IP20 when properly wired
Mechanical features				property initial
Operating position				
	-	rmal		Vertical plan
	allow	able		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	490
Conductor section				
	AWG/kcmil conductor section	max		10
Auxiliary contact chara	acteristics			
Thermal current Ith			Α	32
IEC/EN 60947-5-1 de	esignation			A600 - P600
Operations Machania Life				0000000
Mechanical life Electrical life			cycles cycles	20000000 1600000
Safety related data			Cycles	1000000
	0d according to EN/ISO 13489-1			
	rated	load	cycles	1600000
	mechanical	load	cycles	20000000
Mirror contats accordi	ing to IEC/EN 609474-4-1			YES
EMC compatibility				yes
DC coil operating				
DC rated control volta	•		V	12
DC operating voltage				
	pick-up	min	0/110	70
		min max	%Us %Us	70 125
	drop-out	παλ	/003	120
		min	%Us	10
		max	%Us	40
Average coil consump	ption ≤20°C			
		rush	W	5.4
		ding	W	5.4
Max cycles frequency			, ,	2222
Mechanical operation			cycles/h	3600
Operating times	pontrol			
Average time for Us c	CONTROL			

in AC

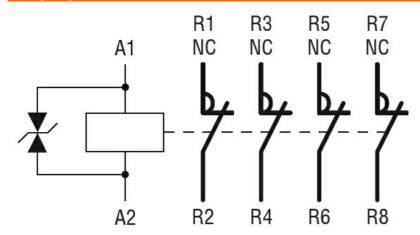
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	Closing NO			
	Closing NO	min	ms	8
		max	ms	24
	Opening NO	IIIdA	1113	24
	Opening NO	min	ms	10
		max	ms	20
	Closing NC	Hax	1110	20
	Closing NO	min	ms	14
		max	ms	28
	Opening NC	max	1110	20
	Sporting 143	min	ms	7
		max	ms	18
	in DC			
	Closing NC			
	Greening 110	min	ms	24
		max	ms	30
	Opening NC			
		min	ms	47
		max	ms	57
UL technical data				
	for three-phase AC motor			
		at 480V	Α	14
		at 600V	Α	17
Yielded mechanical pe	erformance			
	for single-phase AC motor			
		110/120V	HP	1
		230V	HP	3
	for three-phase 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 contacts			
		AC voltage	V	600
		AC current	Α	10
		DC voltage	V	250
		DC current	Α	
	ary contacts according to UL			SI - A600
Ambient conditions				
Temperature				
	Operating temperature		0.0	
		min	°C	-50 -70
	01	max	°C	70
	Storage temperature		0.0	00
		min	°C	-60
NA ICC   I		max	°C	80
Max altitude	20		m	3000
Resistance & Protection	n			2
Pollution degree Dimensions				3





### 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