

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



Product designation			Power contactor
Product type designation			BF18
Contact characteristics		Nle	4
Number of poles Rated insulation voltage Ui IEC/EN		Nr. V	690
Rated insulation voltage of IEC/EN  Rated impulse withstand voltage Uimp		kV	6
		ΚV	0
Operational frequency	min	Hz	25
	min max	⊓∠ Hz	400
IEC Conventional free air thermal current Ith	IIIdX	A	32
Operational current le			32
Operational current le	AC-1 (≤40°C)	Α	32
	AC-1 (≤40 C) AC-1 (≤55°C)	A	26
	AC-1 (≤33°C) AC-1 (≤70°C)	A	23
	AC-1 (≤70 C) AC-3 (≤440V ≤55°C)	A	18
	AC-3 ( <u>1440</u> V <u>133</u> C) AC-4 (400V)	A	8.5
Rated operational power AC-1 (T≤40°C)	AO-4 (400 <i>V)</i>		0.5
Nated operational power AC-1 (1340 C)	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
Short-time allowable current for 10s (IEC/EN60947-1)	000 V	A	200
Protection fuse		- , ,	
Totodion rado	gG (IEC)	Α	32
	aM (IEC)	Α	20
Making capacity (RMS value)	a (i.20)	A	180
Breaking capacity at voltage		- , ,	100
Distanting supports 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)			
The state of the s	Ith	W	2.6
	AC-3	W	0.8
Tightening torque for terminals			
3 - 3 - 1	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
·			



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

Conductor section			
Conductor Section	AWG/Kcmil		
	m	ax	10
	Flexible w/o lug conductor section		
		in mm²	1
	Mi	ax mm²	6
	Flexible c/w lug conductor section	in mm²	1
	m.	•	4
	Flexible with insulated spade lug conductor section	27. 111111	•
	·	in mm²	1
	m.	ax mm²	4
Power terminal protect		IP20 when properly wired	
Mechanical features			property whee
Operating position			
	norm		Vertical plan
	allowab	le	±30°
Fixing			Screw / DIN rail 35mm
Weight		g	508
Conductor section			
	AWG/kcmil conductor section	ax	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 loa	ad cycles	1600000
	mechanical loa		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	in 0/11a	80
	m.	in %Us ax %Us	110
	drop-out	AA /003	110
		in %Us	10
	m		40
Average coil consump	ption ≤20°C		
	in-ru:		2.4
	holdi	ng W	2.4
Max cycles frequency			2000
Mechanical operation		cycles/h	n 3600
Operating times	nontrol .		
Average time for Us c	CONTROL		

in AC

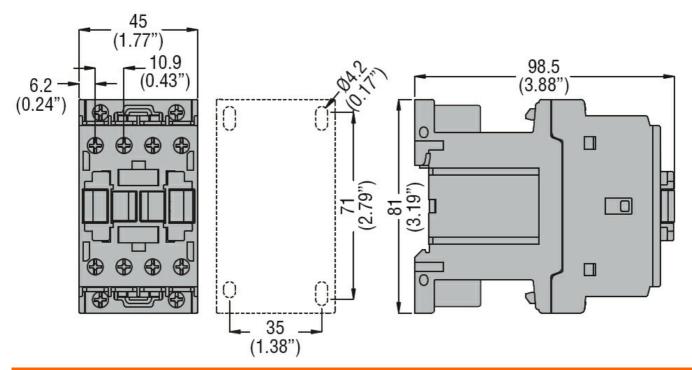


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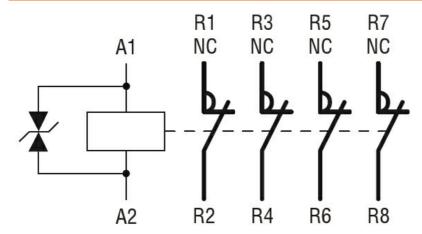
		Obstan NO			
		Closing NO			0
			min	ms	8
		0 NO	max	ms	24
		Opening NO	•.		4.0
			min	ms	10
		01 : 110	max	ms	20
		Closing NC			4.4
			min	ms	14
			max	ms	28
		Opening NC			_
			min	ms	7
			max	ms	18
	in DC				
		Closing NC			
			min	ms	24
			max	ms	30
		Opening NC			
			min	ms	67
			max	ms	81
UL technical data					
Full-load current (FLA	) for three-phase AC mo	otor			
			at 480V	Α	14
			at 600V	Α	17
Yielded mechanical pe	erformance				
	for single-phase AC r	motor			
			110/120V	HP	1
			230V	HP	3
	for three-phase AC m	notor			
	·		200/208V	HP	5
			220/230V	HP	5
			460/480V	HP	10
			575/600V	HP	15
General USE					
	Contactor				
	Comadion		AC current	Α	32
	Auxiliary contacts		/ to duriont	,,	
	Administration		AC voltage	V	600
			AC current	A	10
			DC voltage	V	250
			DC voltage DC current	v A	1
Contact rating of auxili	jary contacts according	to I II	DO Current		SI - A600
Ambient conditions	iary contacts according t	IU UL			31 - A000
Temperature	On a rating target and the				
	Operating temperatur	е	•	°C	FO
			min	°C	-50 -70
	<u> </u>		max	°C	70
	Storage temperature		_	^ <del>-</del>	
			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