## 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		V	690
Rated impulse withstand voltage Uimp		kV	6
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		Α	32
Operating current			
	Operational current AC1 (≤40°C)	Α	32
	Operational current AC3 (≤440V ≤55°C)	Α	18
	Operational current AC4 (400V)	A	8.5
Rated operational power AC1 (T≤40°C)			
	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
Short-time allowable current for 10s (IEC/EN	60947-1)	Α	200
Protection fuse		_	
	gG (IEC)	Α	32
	aM (IEC)	A	20
Making capacity (RMS value)		Α	180
Breaking capacity at voltage	5 11 " 1401		
	Breaking capacity 440V	A	144
	Breaking capacity 500V	A	120
Designation of the second of t	Breaking capacity 690V	Α	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)	De la Paria Cara de la	147	0.0
	Power dissipation pole (average value) Ith	W	2.6
Tightonia a torque for torquin ele	AC3	W	0.8
Tightening torque for terminals		Nine	4.5
	min	Nm	1.5
	max	Nm Ibft	1.8
	min	lbft lbft	1.1 1.5
Tightening torque for coil terminal	max	IDIL	1.0
rightening torque for contentinal	min	Nm	0.8
	min	Nm Nm	0.8 1
	max min	lbft	0.8
	max	lbft	0.74
max number of wires simultaneously connect		nr.	2
Conductor section	adic	111.	

Conductor section

AWG



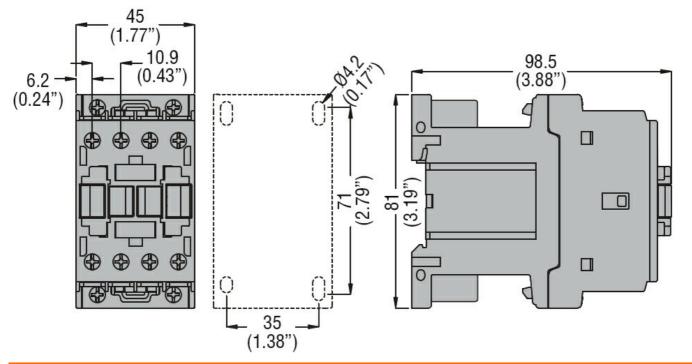
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	min		16
	max		10
	Flexible w/o lug conductor section		
	min	mm²	1
	max	mm²	6
	Flexible c/w lug conductor section	2	
	min	mm²	1
	The with inscripted and deliver and distance the max	mm²	4
	Flexible with insulated spade lug conductor section	mm²	1
	min	mm²	1 4
Power terminal protect	tion according to IEC/EN 60529	111111	IP20 when wired
Auxiliary contact chara			IF 20 WHEIT WITEG
Operational current AC		Α	32
Operating current DC1	·	- / \	- 02
Operating durient bor	110V	А	Screw / DIN rail
	1100	, · ·	35mm
Ambient conditions			
Temperature			
	Operating temperature	2.5	
	min	°C	-50 50
	max	°C	70
	Storage temperature	0.0	00
	min	°C	-60
Max altitude	max	°C	80
		m	3000
Operating position	normal		Vertical plan
	allowable		±30°
	anowabic		Screw / DIN rail
Mounting			35mm
Weight		g	0.49
Operations		J	
Mechanical life		Cycles	20000000
Electrical life		Cycles	1600000
Safety related data			
Performance level B10	Od according to EN/ISO 13489-1		
	rated load	Cicli	1600000
	mechanical load	Cicli	20000000
EMC compatibility			yes
DC coil operating			
DC rated control voltage			
<del></del>	min	V	6
DC operating voltage	atala		
	pick-up	0/11-	0.7
	min	%Us	0.7
	drop-out max	%Us	1.25
	drop-out min	%Us	0.1
	max	%Us %Us	0.40
Average coil consuption		/003	U.7U
vorago oon oonsaptic	in-rush	W	5.4
	holding	W	5.4
	Holding	••	e e e

**ENERGY AND AUTOMATION** 

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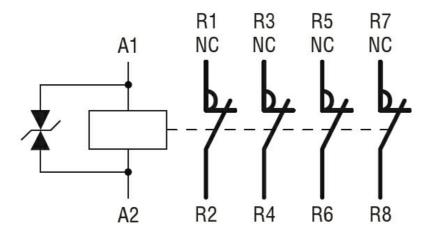
Max cycles frequency			
Mechanical operations		Cycles/h	3600
Operating times			
Average time for Us control			
in AC			
Closing NC			
	min	ms	14
	max	ms	28
Opening NC			
	min	ms	7
	max	ms	18
in DC			
Closing NC			
	min	ms	24
	max	ms	30
Opening NC			
	min	ms	47
	max	ms	57
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	Α	14
	at 600V	Α	17
General USE			
Contactor			
	AC current	Α	32
Other features			
Pollution degree			3
Dimensions			



Wiring diagrams



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



## Certifications and compliance

Certifications

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Compliance

CCC

cULus

EAC

## ETIM 6 classification

EC000066 - Power contactor, AC switching