

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 60HZ, 220VAC, 2NO AND 2NC



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)	Α	18
D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AC-4 (400V)	Α	8.5
Rated operational power AC-1 (T≤40°C)	0001/		40
	230V	kW	12
	400V	kW	21
	500V 690V	kW kW	26 36
Short-time allowable current for 10s (IEC/EN60947-1)	690 V	A	200
Protection fuse			200
FIOLECTION TUSE	gG (IEC)	Α	32
	aM (IEC)	A	20
Making capacity (RMS value)	uiii (123)	A	180
Breaking capacity at voltage			
2. Salaing Capacity 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)			
	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	lbin	0.8
	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2



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Conductor section	NN(0 %		
	AWG/Kcmil		10
	Flexible w/o lug conductor section		10
	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		
	min	mm²	1
	max	mm²	4
Power terminal protec		IP20 when properly wired	
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight		g	350
Conductor section			
	AWG/kcmil conductor section		
Omerations	max		10
Operations Mechanical life		ovoloo	20000000
Electrical life		cycles cycles	1600000
Safety related data		Cycles	1000000
	0d according to EN/ISO 13489-1		
	rated load	cycles	1600000
	mechanical load	cycles	20000000
Mirror contats accord	ing to IEC/EN 609474-4-1	-	YES
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 6	60Hz	V	220
AC operating voltage			
	of 60Hz coil powered at 60Hz		
	pick-up	0/11-	0.0
	min	%Us	80
	drap out	%Us	110
	drop-out min	%Us	20
	max	%Us	55
AC average coil cons		,,,,,,	- -
5	of 60Hz coil powered at 60Hz		
	in-rush	VA	75
	holding	VA	9
Dissipation at holding		W	2.5
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Operating times Average time for Us o	control		

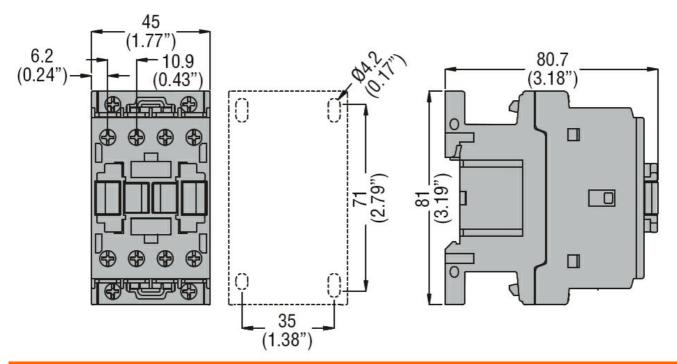




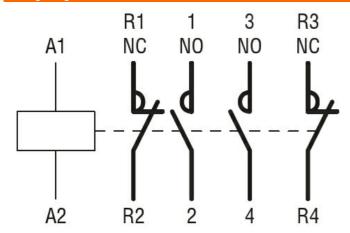
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	Closing NO			
	9	min	ms	8
		max	ms	24
	Opening NO			
	·	min	ms	10
		max	ms	20
	Closing NC			
	· ·	min	ms	14
		max	ms	28
	Opening NC			
		min	ms	7
		max	ms	18
UL technical data				
) for three-phase AC motor			
	,	at 480V	Α	14
		at 600V	Α	17
Yielded mechanical pe	erformance	ut 000 v	- , ,	
riciaca mediamoai pe	for single-phase AC motor			
	Tot single phase Ao motor	110/120V	HP	1
		230V	HP	3
	for three-phase AC motor	230 V	111	
	ioi tillee-pilase AC motor	200/208V	HP	5
		220/230V	HP	5
		460/480V		
			HP	10
General USE		575/600V	HP	15
General USE	Ocatosta			
	Contactor	10		00
A self-territories at 1905 en es		AC current	Α	32
Ambient conditions				
Temperature				
	Operating temperature	_		
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection	on			
Pollution degree				3
Dimensions				

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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