

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, AC COIL 60HZ, 220VAC, 4NC



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
	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)		Α	200
Protection fuse			
	gG (IEC)	Α	32
	aM (IEC)	Α	20
Making capacity (RMS value)		Α	180
Breaking 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)			
	lth	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	Ibin	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



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Conductor section			
Conductor Section	AWG/Kcmil		
	ma	ıx	10
	Flexible w/o lug conductor section		
	m		1
	Florible a / v. lum conductor acction	x mm²	6
	Flexible c/w lug conductor section	in mm²	1
	mi		4
	Flexible with insulated spade lug conductor section		<u> </u>
		in mm²	1
	ma	x mm²	4
Power terminal prote	ction according to IEC/EN 60529		IP20 when properly wired
Mechanical features			property wired
Operating position			
	norm		Vertical plan
	allowab	e	±30°
ixing			Screw / DIN rail 35mm
Weight		g	340
Auxiliary contact char Thermal current Ith	acteristics	Λ	32
EC/EN 60947-5-1 de	ocianation	Α	A600 - P600
Operations	esignation		A000 - P000
Mechanical life		cycles	2000000
Electrical life		cycles	
Safety related data			
Performance level B	10d according to EN/ISO 13489-1		
	rated loa mechanical loa	,	
EMC compatibility	mechanical loa	d cycles	yes
AC coil operating			yes
Rated AC voltage at 6	60Hz	V	220
AC operating voltage			
	of 60Hz coil powered at 60Hz		
	pick-up		
	m		80
	drop-out	ıx %Us	110
	diop-out m	in %Us	20
	m		55
AC average coil cons	sumption at 20°C		
	of 60Hz coil powered at 60Hz		
	in-ru:		75
Discipation at hald:	holdir	_	9
Dissipation at holding Max cycles frequency		W	2.5
Mechanical operation		cycles	h 3600
Operating times		<i>5,</i> 0.00/	
Average time for Us o	control		
	in AC		
	Closing NO		
	m	in ms	8



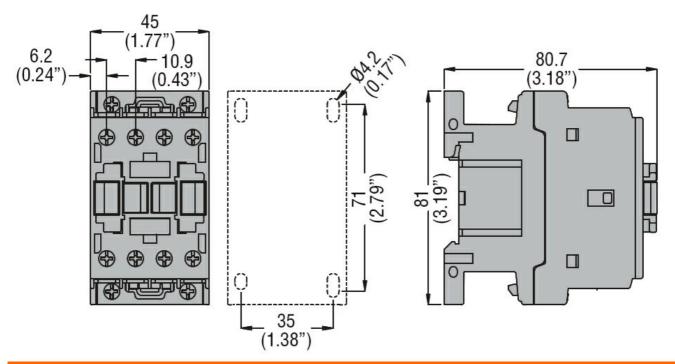


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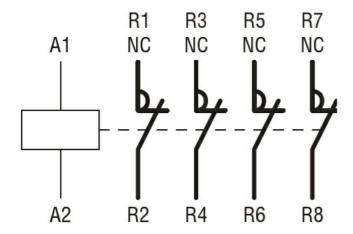
		max	ms	24
	Opening NO			
	, ,	min	ms	10
		max	ms	20
	Closing NC			-
	G.66g . 10	min	ms	14
		max	ms	28
	Opening NC			
	opening its	min	ms	7
		max	ms	18
UL technical data		max	1113	10
Rated operational volt			V	600
) for three-phase AC motor		v	
i dii-load carrent (i LA) for timee-phase Ac motor	at 480V	Α	14
Vialdad waadaasiaal a		at 600V	Α	17
Yielded mechanical p				
	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	1
Contact rating of auxil	iary contacts according to UL			SI - A600
Ambient conditions	, , , , , , , , , , , , , , , , , , ,			
Temperature				
•	Operating temperature			
	ah arami 8 sambaranana	min	°C	-50
		max	°C	70
	Storage temperature	max		
	Cicrago tomporataro	min	°C	-60
		max	°C	80
Max altitude		IIIax	 	3000
Resistance & Protecti	ion		111	3000
	OH			2
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