

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



Product designation Product type designation			Power contactor BF18
Contact characteristics			Ы 10
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
-1	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	A	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)	Tal.	147	2.0
	Ith	W	2.6
Tightoning targue for terminals	AC-3	W	0.8
Tightening torque for terminals		Nl	1 5
	min	Nm Nm	1.5
	max min	Nm Ibin	1.8
		Ibin	1.1 1.5
Tightening torque for coil terminal	max	וווטו	1.0
ngmening torque for contentinal	min	Nm	0.8
	min max	Nm Nm	0.8 1
	min	Ibin	0.8
	111111	ווועו	0.0
	max	lbin	0.74



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On advertage and in a				
Conductor section	AWG/Kcmil			
	AWGACA	max		10
	Flexible w/o lug conductor section			
		min	mm²	1
		max	mm²	6
	Flexible c/w lug conductor section			4
		min	mm² mm²	1 4
	Flexible with insulated spade lug conductor sect	ion	TUITI	4
	r lexible with insulated space lag soridation seek	min	mm²	1
		max	mm²	4
Power terminal protec	tion according to IEC/EN 60529			IP20 when properly wired
Mechanical features				proposity interest
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	508
Conductor section				
	AWG/kcmil conductor section	max		10
Auxiliary contact chara	acteristics			
Thermal current Ith			Α	32
EC/EN 60947-5-1 de	signation			A600 - P600
Operations Machanical life			avalaa	20000000
Mechanical life Electrical life			cycles cycles	1600000
Safety related data			cycles	1000000
•	0d according to EN/ISO 13489-1			
	3	rated load	cycles	1600000
		mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			YES
EMC compatibility				yes
DC coil operating				
DC rated control volta	ge		V	12
OC operating voltage	ministration and			
	pick-up	min	%Us	80
		min max	%Us %Us	110
	drop-out	max	/003	. 10
		min	%Us	10
		max	%Us	40
Average coil consump	otion ≤20°C			
		in-rush	W	2.4
		holding	W	2.4
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times	- nto-l			
Average time for Us o	ontrol			

in AC

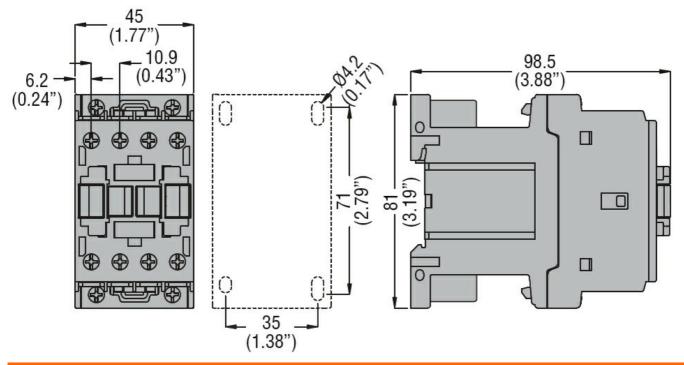


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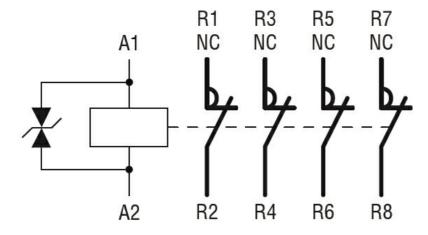
Max attitude Max			01 : NO			
Opening NO			Closing NO			0
Opening NO						
Max Min			0 NO	max	ms	24
Closing NC			Opening NO			40
Closing NC						
Max			Closing NC	max	IIIS	20
Max			Closing NC	min	me	1.1
Opening NC						
Max			Opening NC	max	1113	20
Max			Opening NO	min	me	7
In DC						
Closing NC		in DC		max	1110	
Max		III DO	Closing NC			
Opening NC			Olosing NO	min	ms	24
Opening NC min ms 67 max ms 81 ms 67 max ms 81 ms 67 max ms 81						
Min			Opening NC	mux	5	
Max			opolining 140	min	ms	67
Storage temperature Contact rating of auxiliarry contacts according to UL. According to Max altitude Contact rating of auxiliarry contacts Contact rating of auxiliarry Contact rating of auxiliarry Contact rating of auxiliarry Contact rating of auxiliarry Contact ratin						
Full-load current (FLA) for three-phase AC motor at 480V	UL technical data			Пах	1110	01
At 480V A 14 at 600V A 17		for three-phase AC mo	tor		<u> </u>	
Yielded mechanical performance For single-phase AC motor 110/120V HP 1 230V HP 3 3 1 1 1 1 1 1 1 1	,			at 480V	Α	14
Vielded mechanical performance 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 AC current A 32 Auxiliary contacts AC voltage V 600 AC voltage V 250 DC voltage V 250 DC current A 1 Contact rating of auxiliary contacts according to UL SI - A600 Ambient conditions SI - A600 Temperature min °C -50 Storage temperature min °C -50 max °C 70 80 Max altitude min °C -60 Resistance & Protection min 3000 Resistance & Protection 3						
For single-phase AC motor 110/120V	Yielded mechanical pe	erformance				
110/120V HP 1 1 230V HP 3 3	•		notor			
Temperature Contacts according to UL Contact rating of auxiliary contacts Conta		3 - 1		110/120V	HP	1
For three-phase AC motor						
200/208V		for three-phase AC m	otor			
220/230V		'		200/208V	HP	5
A60/480V						
S75/600V HP 15						
Contactor				575/600V	HP	15
AC current	General USE					_
AC current		Contactor				
Auxiliary contacts				AC current	Α	32
AC voltage V 600 AC current A 10 DC voltage V 250 DC current A 1 Contact rating of auxiliary contacts according to UL 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 Pollution degree 3		Auxiliary contacts				
AC current A 10 DC voltage V 250 DC current A 1 1		•		AC voltage	V	600
DC voltage V 250 DC current A 1 Contact rating of auxiliary contacts according to UL SI - A600 Ambient conditions SI - A600 Temperature						
DC current						
Contact rating of auxiliary contacts according to UL SI - A600 Ambient conditions Temperature Min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude Resistance & Protection Pollution degree					Α	1
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 Pollution degree	Contact rating of auxilia	ary contacts according to	o UL			SI - A600
Operating temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3						
min max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection 3	Temperature					
min max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection 3		Operating temperature	е			
Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection Value 3 Pollution degree 3				min		-50
min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection 3 Pollution degree 3				max	°C	70
Max altitudemax°C80Resistance & Protectionm3000Pollution degree3		Storage temperature				
Max altitude m 3000 Resistance & Protection Pollution degree 3				min	°C	-60
Resistance & Protection Pollution degree 3				max	°C_	80
Pollution degree 3	Max altitude				m	3000
U Company of the comp	Resistance & Protection	on				
Dimensions	Pollution degree					3
<u></u>	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