ENERGY AND AUTOMATION

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, DC COIL, 110VDC,



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)	A	18
D. I. J. and C. and C. A. (T. (1000))	AC-4 (400V)	Α	8.5
Rated operational power AC-1 (T≤40°C)	0001/	1-147	40
	230V	kW	12
	400V	kW	21
	500V 690V	kW kW	26 36
Short-time allowable current for 10s (IEC/EN60947-1)	090 V	A	200
Protection fuse			200
Flotection luse	gG (IEC)	Α	32
	aM (IEC)	A	20
Making capacity (RMS value)	aw (ILO)	A	180
Breaking capacity at voltage		,,	100
broaking dapatity at voltage	440V	Α	144
	500V	A	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	Ibin	0.8
	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2



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Conductor section	AMO//C '		
	AWG/Kcmil		10
	Flexible w/o lug conductor section		10
	riexible w/o lug conductor section min	mm²	1
	max	•	6
	Flexible c/w lug conductor section	111111	
	min	mm²	1
	max		4
	Flexible with insulated spade lug conductor section		
	, S min	mm²	1
	max	mm²	4
Power terminal protect	tion according to IEC/EN 60529		IP20 when
-	Mon according to 12-6/214 00020		properly wired
Mechanical features			
Operating position	1		Vartical plan
	norma allowable		Vertical plan ±30°
	allowable		Screw / DIN rail
Fixing			35mm
Weight		g	494
Conductor section			
	AWG/kcmil conductor section		
	max		10
Auxiliary contact chara	acteristics		
Thermal current Ith		А	32
IEC/EN 60947-5-1 de	signation		A600 - P600
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	1600000
Safety related data			
Performance level B1	0d according to EN/ISO 13489-1		
	rated load	•	1600000
	mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1		YES
EMC compatibility			yes
DC coil operating		.,	110
DC rated control volta	ge	V	110
DC operating voltage			
	pick-up	0/11-	70
	min		70 125
	drop-out	%Us	125
	drop-out min	%Us	10
	max		40
Average coil consump		/005	-1 0
Average con consump	in-rush	W	5.4
	holding		5.4 5.4
Max cycles frequency	noiding	v v	J. .
Mechanical operation		cycles/h	3600
Operating times		0 y 010 3/11	
Average time for Us of	ontrol		
orago arrio lor os o	onition		

in AC

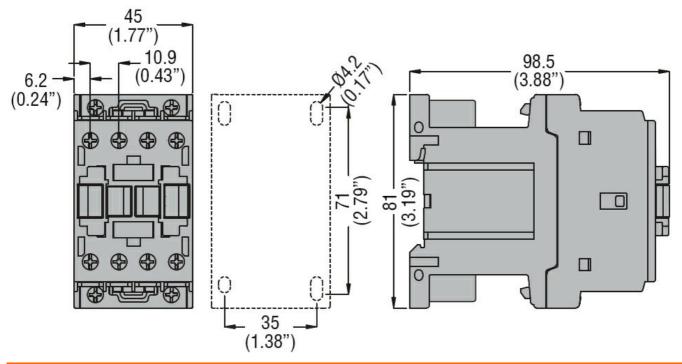
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Closing NO						
Copening NO			Closing NO			•
Opening NO						
Max Min Min			Opening NO	max	ms	24
Closing NC			Opening NO	min	me	10
Closing NC						
Max			Closing NC	Παλ	1113	20
Max			Cidding 140	min	ms	14
Opening NC						
Max Mis No No No No No No No N			Opening NC			
Total Color			, ,	min	ms	7
Closing NC				max	ms	18
Mark		in DC				
Max			Closing NC			
Opening NC				min	ms	
Minimax Mini				max	ms	30
Max			Opening NC			
Ul technical data Full-load current (FLA) for three-phase AC motor						
Full-load current (FLA) for three-phase AC motor 1				max	ms	5/
A		\\ for three phase ^ 0	motor			
Telded 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 5 220/230V HP 10 575/600V HP 15 General USE AC current A 32 Auxiliary contacts AC voltage V 600 AC current A 10 DC voltage V 250 DC current A 1 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 attitude m 3000 Resistance & Protection	ruii-ioad current (FLA	y ioi iiiiee-phase AC	IIIOlOI	at 400\/	٨	1.4
Yielded 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 AL current A 10 DC voltage V 600 AC current A 10 DC voltage V 250 DC current A 1 A 1 - A600 Ambient conditions Temperature Operating temperature min °C -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude max °C 80 Max altitude Max altitude max °C 80 Max altitude Max altitude Max altitude						
For single-phase AC motor 110/120V	Vielded mechanical n	erformance		at 000 v		
110/120V	riciaca medianicai p		AC motor			
For three-phase AC motor 200/208V		for single phase 7	to motor	110/120V	HP	1
For three-phase AC motor						
200/208V		for three-phase A	C motor			
Contactor				200/208V	HP	5
A60/480V						
Contactor				460/480V	HP	
Contactor AC current A 32				575/600V	HP	15
AC current	General USE					
Auxiliary contacts		Contactor				
AC voltage				AC current	Α	32
AC current A 10 DC voltage V 250 DC current A 1 Contact rating of auxiliary contacts according to UL SI - A600 Ambient conditions Temperature		Auxiliary contacts				
DC voltage V 250 DC current A 1 Contact rating of auxiliary contacts according to UL Ambient conditions Temperature Operating temperature Min				_		
DC current						
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 max °C 80 Max altitude Pollution degree 3						
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	Opintant native of the fi	Bana aanta sta aa sa B	a a 4 a 1 H	DC current	А	
Operating temperature		nary contacts accordi	ng to UL			SI - A000
Operating temperature min max °C max -50 max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection 3						
min max °C 70 Storage temperature min °C -60 max °C 80 Max altitude m 3000 Resistance & Protection 3	romperature	Operating temper	ature			
max °C 70 Storage temperature min or C or -60 max °C 80 Max altitude m 3000 Resistance & Protection Pollution degree 3		operating tempera	aturo	min	°C.	-50
Storage temperature min max °C or -60 or						
min max °C -60 max Max altitude m 3000 Resistance & Protection 3 Pollution degree 3		Storage temperati	ure	max		
Max altitudemax°C80Resistance & Protectionm3000Pollution degree3		2.2.ago tomporati		min	°C	-60
Max altitude m 3000 Resistance & Protection Pollution degree 3						
Resistance & Protection Pollution degree 3	Max altitude					
- <u> </u>		ion				
Dimensions	Pollution degree					3
	Dimensions					

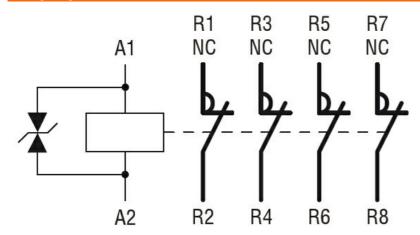


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Wiring diagrams



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