

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, DC COIL, 220VDC, 2NO AND 2NC



Product designation			Power contactor
Product type designation			BF38
Contact characteristics			DI 30
Number of poles		Nr.	4
· · · · · · · · · · · · · · · · · · ·		V	
Rated insulation voltage Ui IEC/EN			690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	56
Operational current le			
	AC-1 (≤40°C)	Α	56
	AC-1 (≤40°C) with 16mm² wire and fork end	lugA	60
	AC-1 (≤55°C)	Α	45
	AC-1 (≤55°C) with 16mm² wire and fork end	lugA	48
	AC-1 (≤70°C)	Α	40
	AC-1 (≤70°C) with 16mm² wire and fork end	lugA	42
	AC-3 (≤440V ≤55°C)	Α	38
	AC-4 (400V)	Α	15.5
Rated operational power AC-1 (T≤40°C)			
, ,	230V	kW	21
	400V	kW	36
	500V	kW	45
	690V	kW	62
Short-time allowable current for 10s (IEC/EN60s		Α	320
Protection fuse	- ,		
	gG (IEC)	Α	63
	aM (IEC)	Α	40
Making capacity (RMS value)	aw (izo)	A	380
Breaking capacity at voltage			300
breaking capacity at voltage	440V	۸	304
		A	
	500V	A	240
Decidence and the second of	690V	A	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
	Ith	W	6
	AC-3	W	2.9
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	lbin	1.8
	max	lbin	2.2
Tightening torque for coil terminal			
	ma in	Nine	0.0
	min	Nm	0.8



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	min	lbin	0.8
	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
El. 21. 7.1. 22.	max		6
Flexible w/o lug conductor section		2	0.5
	min	mm²	2.5
Florible of white conductor acction	max	mm²	16
Flexible c/w lug conductor section	min	mm²	4
	min	mm² mm²	1 10
Elevible with insulated anode lug conductor coation	max	111111	10
Flexible with insulated spade lug conductor section	min	mm²	1
	min	mm² mm²	1 10
	max	111111	IP20 when
Power terminal protection according to IEC/EN 60529			properly wired
Mechanical features			Property Wiled
Operating position			
	normal		Vertical plan
	allowable		±30°
	allowable		Screw / DIN rail
Fixing			35mm
Weight		g	670
Conductor section		<u> </u>	
AWG/kcmil conductor section			
	max		6
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	1400000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	1400000
	anical load	cycles	20000000
Mirror contats according to IEC/EN 609474-4-1			YES
EMC compatibility			yes
DC coil operating			
DC rated control voltage		V	220
DC operating voltage			
pick-up			
	min	%Us	80
	max	%Us	125
drop-out			
	min	%Us	10
	max	%Us	40
Average coil consumption ≤20°C			
	in-rush	W	5.4
	holding	W	5.4
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			

in AC

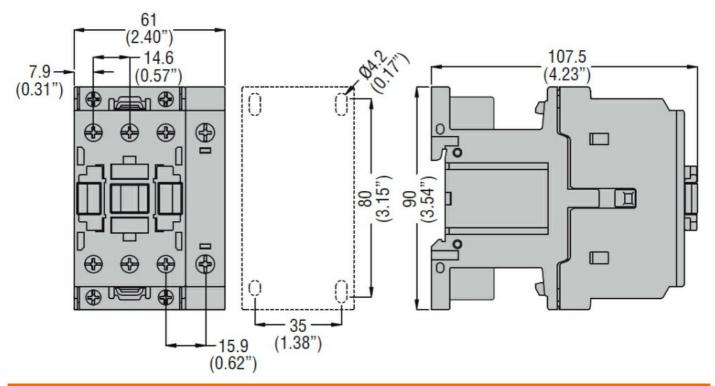


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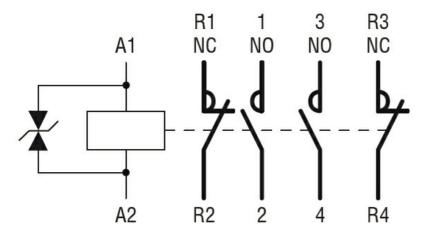
	Closing NO			
	Closing NO	min	ms	8
		max	ms	24
	Opening NO	IIIdA	1113	24
	Opening NO	min	ms	5
		max	ms	15
	Closing NC	Παλ	1115	13
	Closing NC	min	ms	9
				20
	Opening NC	max	ms	20
	Opening NC	min	mc	9
		max	ms ms	9 17
	in DC	IIIdx	1113	17
	Closing NO			
	Closing NO	min	mc	54
			ms	66
	Opening NO	max	ms	00
	Opening NO	min	me	14
			ms ms	17
	Closing NC	max	ms	17
	Ciosing inc	min	ms	23
				28
	Opening NC	max	ms	20
	Opening NC	min	mo	46
		min	ms	
UL technical data		max	ms	56
) for three-phase AC motor			
Tull-load current (TEA)	i tili ee-pilase Ao motol	at 480V	Α	40
		at 600V	A	32
Yielded mechanical pe	arformance	αι σσο ν		<u> </u>
rielded friedriaffical pe	for single-phase AC motor			
	Tot single-phase AC motor	110/120V	HP	3
		230V	HP	7.5
	for three-phase AC motor	230 V	1 11	7.5
	ioi tillee-phase AC motor	200/2001	ЦD	10
		200/208V 220/230V	HP HP	15
		220/230V 460/480V	HP HP	30
		460/480V 575/600V	HP HP	30
General USE		V 0000 V	חר	30
General USE	Contactor			
	Contactor	A C a	٨	EE
Ambient conditions		AC current	Α	55
Ambient conditions				
Temperature	On a ratio a tamen a rationa			
	Operating temperature		۰۵	FO
		min	°C	-50 70
	Ctorogo tomporcture	max	°C	70
	Storage temperature	!	°C	00
		min	°C	-60
May altitude		max	°C	80
Max altitude			m	3000
Resistance & Protection	OII			
Dellistian discossi				•
Pollution degree Dimensions				3

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