

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, DC COIL, 125VDC, 2NO AND 2NC



Product designation			Power contactor
Product type designation			BF38
Contact characteristics Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		K V	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	Шах	A	56
Operational current le			
Operational current to	AC-1 (≤40°C)	Α	56
	AC-1 (≤40°C) with 16mm² wire and fork end		60
	AC-1 (≤55°C)	A	45
	AC-1 (≤55°C) with 16mm² wire and fork end		48
	AC-1 (≤70°C)	A	40
	AC-1 (≤70°C) with 16mm² wire and fork end		42
	AC-3 (≤440V ≤55°C)	A	38
	AC-4 (400V)	Α	15.5
Rated operational power AC-1 (T≤40°C)	(1001)		
(230V	kW	21
	400V	kW	36
	500V	kW	45
	690V	kW	62
Short-time allowable current for 10s (IEC/EN6		Α	320
Protection fuse	,		
	gG (IEC)	Α	63
	aM (IEC)	Α	40
Making capacity (RMS value)	(- 7	Α	380
Breaking capacity at voltage			
3 11, 11 , 11 11 31	440V	Α	304
	500V	Α	240
	690V	Α	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	Ibin	1.8
	max	Ibin	2.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1



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Awar number of wires simultaneously connectable				
AWG/Kcmil		min	Ibin	0.8
AWG/Kcmil	Max acceptant of column			
AWG/Kcmil Flexible w/o lug conductor section Flexible w/o lug conductor section Flexible c/w lug conductor section max mm² 16 16 16 16 16 16 16 1		simultaneously connectable	INF.	
Flexible w/o lug conductor section	Conductor section	AMC/Kamil		
Flexible w/o lug conductor section				6
Flexible c/W lug conductor section				0
Periodic Periodic		_	mm²	2.5
Flexible c/w lug conductor section				
Please			111111	10
Flexible with insulated spade lug conductor section min max mm² 10 10 10 10 10 10 10 1			mm²	1
Flexible with insulated spade lug conductor section min mm mm mm 1 max mm² 10 max max mm² 10 max mm² 10 max mm² 10 max mm² 10 max				
Min				10
Max			mm²	1
Page				
### Property wired ####################################				
Acchanical features	Power terminal prote	ection according to IEC/EN 60529		
Departing position	Mechanical features			, .,,
No control No				
Second	. 51	normal		Vertical plan
Veight g 665 Operations		allowable		
Veright g 665 Operations				Screw / DIN rail
Departions Cycles 20000000	-ixing			35mm
Departions Cycles 20000000 dectrical life cycles 1400000 Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1400000 cycles 1400000 cycles 20000000 EMC compatibility yes 2C coil operating V 125 2C operating voltage yes 3C operating voltage yes 3C operating voltage yes 4C operating voltage yes 3C operating voltage yes 4C operating voltage yes 4C operating voltage yes 4C operating voltage yes yes 4C operating voltage yes	Weight		g	665
Comparison Co	Operations			
Safety related data Performance level B10d according to EN/ISO 13489-1 rated load cycles 1400000 mechanical load cycles 20000000 min ms 800000000000000000000000000000000000	Mechanical life		cycles	20000000
Performance level B10d according to EN/ISO 13489-1 rated load cycles 1400000 mechanical load cycles 20000000 min ms 8 max ms 24 Opening NO	Electrical life		cycles	1400000
Rated load Cycles 1400000 mechanical load Cycles 20000000 mechanical load Cycles 20000000 mechanical load Cycles 20000000 mechanical load Cycles 20000000 mechanical load Cycles Coloridate Cycles C	Safety related data			
Mechanical load Cycles 20000000	Performance level B	10d according to EN/ISO 13489-1		
MC compatibility C rated control voltage C rated control voltage pick-up min %Us 80 max %Us 125 drop-out min %Us 10 max %Us 10 max %Us 40 Average coil consumption ≤20°C in-rush W 5.4 holding W 5.4 Max cycles frequency Mechanical operation C closing NO min ms 8 max ms 24 Opening NO		rated load	cycles	1400000
OC rated control voltage OC rated control 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 cycles/h 3600 Operating times cycles/h min ms 8 max ms 24 Opening NO		mechanical load	cycles	20000000
DC rated control voltage V 125	EMC compatibility			yes
DC operating voltage pick-up	DC coil operating			
Pick-up	OC rated control volt	age	V	125
min %Us 80 max %Us 125	OC operating voltage			
Max Wus 125		pick-up		
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 Average time for Us control in AC Closing NO min ms 8 max ms 24 Opening NO		min	%Us	80
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 Average time for Us control in AC Closing NO min ms 8 max ms 24 Opening NO		max	%Us	125
Average coil consumption ≤20°C Average coil consumption ≤20°C in-rush W 5.4 holding W 5.4 Max cycles frequency Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC Closing NO min ms 8 max ms 24 Opening NO		drop-out		
Average coil consumption ≤20°C in-rush W 5.4 holding W 5.4 holding W 5.4 Max cycles frequency Mechanical operation cycles/h 3600 Departing times Average time for Us control in AC Closing NO min ms 8 max ms 24 Opening NO		min		
in-rush W 5.4 holding W 5.4 Max cycles frequency Mechanical operation cycles/h 3600 Degrating times Average time for Us control in AC Closing NO min ms 8 max ms 24 Opening NO			%Us	40
Max cycles frequency Mechanical operation cycles/h 3600 Departing times Average time for Us control in AC Closing NO min ms 8 max ms 24 Opening NO	Average coil consum	pption ≤20°C		
Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC Closing NO min ms 8 max ms 24 Opening NO				
Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC Closing NO min ms 8 max ms 24 Opening NO		_	W	5.4
Operating times Average time for Us control in AC Closing NO min ms 8 max ms 24 Opening NO		•		
Average time for Us control in AC Closing NO min ms 8 max ms 24 Opening NO		n	cycles/h	3600
in AC Closing NO min ms 8 max ms 24 Opening NO	Operating times			
Closing NO min ms 8 max ms 24 Opening NO	Average time for Us			
min ms 8 max ms 24 Opening NO				
max ms 24 Opening NO		Closing NO		
Opening NO		min	ms	
· · · ·			ms	24
min ms 5		Opening NO		
		min	ms	5

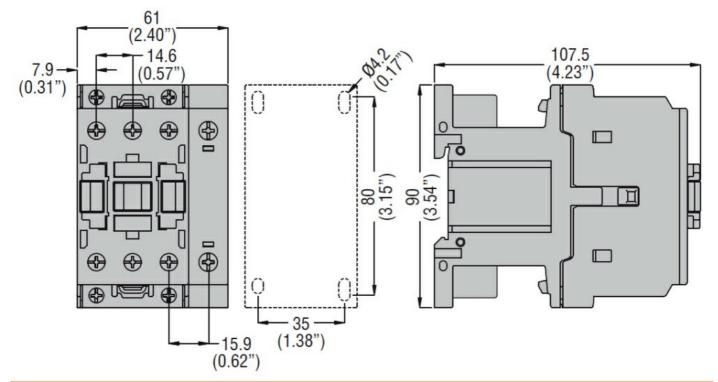


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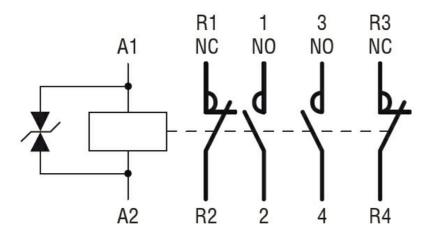
			max	ms	15
		Closing NC			
			min	ms	9
			max	ms	20
		Opening NC			
			min	ms	9
			max	ms	17
	in DC				
		Closing NO			
		-	min	ms	54
			max	ms	66
		Opening NO			
		-1- 5 -	min	ms	14
			max	ms	17
		Closing NC	max		
		Clocking 110	min	ms	23
			max	ms	28
		Opening NC	Παλ	1113	20
		Opening NC	min	mo	46
			min	ms	46
III toobnical data			max	ms	56
UL technical data	A O (LIL)			V	000
Rated operational volta				V	600
Full-load current (FLA)	for three-phase AC mo	tor			
			at 480V	Α	40
			at 600V	Α	32
Yielded mechanical pe					
	for single-phase AC m	notor			
			110/120V	HP	3
			230V	HP	7.5
	for three-phase AC mo	otor			
			200/208V	HP	10
			220/230V	HP	15
			460/480V	HP	30
			575/600V	HP	30
General USE					_
	Contactor				
			AC current	Α	55
Ambient conditions					
Temperature					
	Operating temperature	j			
	oporating temperature	,	min	°C	-50
			max	°C	70
	Storage temperature		Παλ		7.0
	olorage lemperature		min	°C	-60
				°C	80
May altitude			max		
Max altitude				m	3000
Resistance & Protection	ou				0
Pollution degree					3
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