



Product designation	Power conta
Product type designation	BF38
Contact characteristics	
Number of poles N	r. 4
Rated insulation voltage Ui IEC/EN V	/ 690
Rated impulse withstand voltage Uimp kV	V 6
Operational frequency	
min H	z 25
max H	z 400
IEC Conventional free air thermal current Ith A	56
Operational current le	
AC-1 (≤40°C) A	56
AC-1 (≤40°C) with 16mm² wire and fork end lugA	60
AC-1 (≤55°C) A	
AC-1 (≤55°C) with 16mm² wire and fork end lugA	48
AC-1 (≤70°C) A	
AC-1 (≤70°C) with 16mm² wire and fork end lugA	
AC-3 (≤440V ≤55°C) Ă	
AC-4 (400V) A	
Rated operational power AC-1 (T≤40°C)	
230V kV	V 21
400V kV	
500V kV	
690V kV	
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	
≤24V A	35
48V A	
75V A	
110V A	
220V A	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	
≤24V A	36
48V A	
75V A	
110V A	
220V A	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	, т
≤24V A	36
46V A 75V A	
110V A	
220V A	
IEC max current le in DC1 with L/R \leq 1ms with 4 poles in series	N 30
·	20
≤24V A	
48V A	34



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, DC COIL, 125VDC

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	75V	А	33
	110V	A	34
	220V	A	38
EC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series	-0 A) (0.4
	≤24V	A	24
	48V	A	20
	75V	A	17
	110V 220V	A A	2,5
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series	2200	A	-
120 max current le in D03-D03 with L/1(3 15m3 with 2 poles in series	≤24V	А	28
	48V	A	25
	48V 75V	A	22
	110V	A	18
	220V	A	3
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series	2201	7.	0
	≤24V	А	32
	48V	A	28
	75V	A	28
	110V	A	23
	220V	A	25
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	А	32
	48V	А	28
	75V	А	28
	110V	А	23
	220V	А	15
Short-time allowable current for 10s (IEC/EN60947-1)		А	320
Protection fuse			
	gG (IEC)	А	63
	aM (IEC)	Α	40
Making capacity (RMS value)		Α	380
Breaking capacity at voltage			
	440V	А	304
	500V	А	240
	690V	A	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
	lth	W	6
	AC-3	W	2.9
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	Ibin	1.8
	max	lbin	2.2
Tightening torque for coil terminal		N I.e.	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8
	max	lbin Nr.	0.74
Max number of wires simultaneously connectable			

AWG/Kcmil



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				0
	Elovible w/e lug conductor	max		6
	Flexible w/o lug conductor s	section	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor s			. •
		min	mm²	1
		max	mm²	10
	Flexible with insulated spad	le lug conductor section		
		min	mm²	1
		max	mm²	10
Power terminal protect	tion according to IEC/EN 605	29		IP20 when properly wired
Mechanical features				
Operating position				
		normal allowable		Vertical plan ±30°
Fixing				Screw / DIN rail 35mm
Weight			g	670
Conductor section			<u> </u>	
	AWG/kcmil conductor section	on		
		max		6
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	1400000
Safety related data	N			
Performance level B10	0d according to EN/ISO 1348	rated load	ovelee.	1400000
		mechanical load	cycles cycles	20000000
Mirror contats accordir	ng to IEC/EN 609474-4-1	mechanicalidad	Cycle3	yes
EMC compatibility	19 10 12 0/211 000 17 1 1			yes
DC coil operating				y
DC rated control voltage	je		V	125
DC operating voltage				
	pick-up			
		min	%Us	80
		max	%Us	125
	drop-out		0/11	10
		min	%Us	10
Average coil consump	tion <20°C	max	%Us	40
Average coll consump	001 ≥20 €	in-rush	W	5.4
		holding	W	5.4 5.4
Max cycles frequency		noiding	vv	V . T
Mechanical operation			cycles/h	3600
Operating times			, in the second se	
Average time for Us co	ontrol			
	in AC			
	Clo	sing NO		
		min	ms	8
	^	max	ms	24
	Op	ening NO	ma	5
		min max	ms ms	5 15
		IIIdX	1115	10

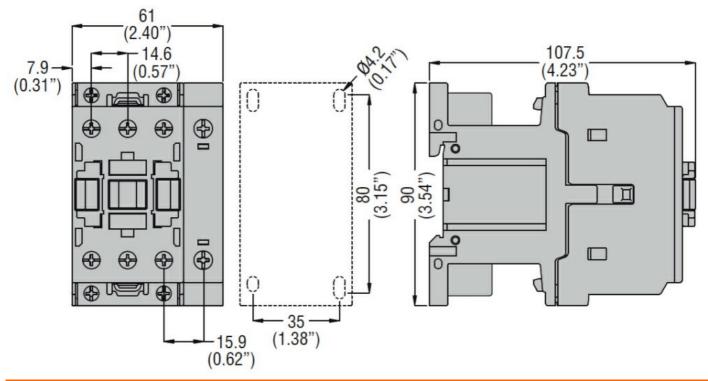




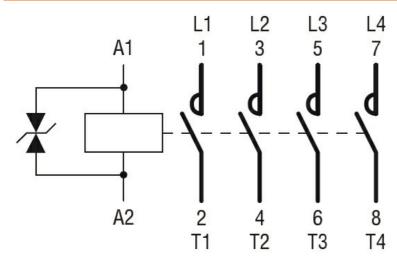
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Closing NC min ms 9 max ms 20 Opening NC min ms 9 max ms 17
max ms 20 Opening NC min ms 9
Opening NC min ms 9
min ms 9
in DC
Closing NO
min ms 54
max ms 66
Opening NO
min ms 14
Max ms 17 UL technical data
Full-load current (FLA) for three-phase AC motor
at 480V A 40
at 600V A 32
Yielded mechanical performance
for single-phase AC motor
110/120V HP 3
230V HP 7.5
for three-phase AC motor
200/208V HP 10 220/230V HP 15
460/480V HP 30
575/600V HP 30
General USE
Contactor
AC current A 55
Short-circuit protection fuse, 600V
High fault
Short circuit current kA 100
Fuse rating A 100 Fuse class J
Standard fault
Short circuit current kA 5
Fuse rating A 150
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
Dimensions





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	



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ETIM 8.0

EC000066 -Power contactor, AC switching