



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 60HZ, 220VAC, 2NO AND 2NC



Product designation Power contactor Product type designation **BF38** Contact characteristics Nr. 4 Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 Rated impulse withstand voltage Uimp kV 6 Operational frequency Н 25 min Hz 400 max IEC Conventional free air thermal current Ith 56 Α 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) 45 AC-1 (≤55°C) with 16mm² wire and fork end lugA 48 AC-1 (≤70°C) 40 AC-1 (≤70°C) with 16mm² wire and fork end lugA 42 AC-3 (≤440V ≤55°C) Α 38 AC-4 (400V) 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/EN60947-1) Α 320 Protection fuse gG (IEC) 63 Α aM (IEC) Α 40 Making capacity (RMS value) 380 Breaking capacity at voltage 440V Α 304 500V Α 240 690V Α 192 Resistance per pole (average value) $m\Omega$ 2 Power dissipation per pole (average value) W lth 6 AC-3 W 2.9 Tightening torque for terminals 2.5 Nm min Nm max 3 min Ibin 1.8 2.2 max Ibin Tightening torque for coil terminal

min

max

Nm

Nm

0.8

1



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	min	lbin	0.8
Managaratan	max	Ibin	0.74
	simultaneously connectable	Nr.	2
Conductor section	AWG/Kcmil		
			C
	Elevible w/e lug conductor section		6
	Flexible w/o lug conductor section	mm²	2.5
		mm²	16
	Flexible c/w lug conductor section	111111	10
	riexible c/w lug coriductor section min	mm²	1
	max	mm²	10
	Flexible with insulated spade lug conductor section		10
	min	mm²	1
	max	mm²	10
			IP20 when
Power terminal protect	tion according to IEC/EN 60529		properly wired
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight		g	496
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	1400000
Safety related data			
Performance level B1	0d according to EN/ISO 13489-1		
	rated load	cycles	1400000
	mechanical load	cycles	20000000
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 6	0Hz	V	220
AC operating voltage			
	of 60Hz coil powered at 60Hz		
	pick-up		
	min	%Us	80
	max	%Us	110
	drop-out		
	min	%Us	20
	max	%Us	55
AC average coil consu			
	of 60Hz coil powered at 60Hz	1.74	75
	in-rush	VA	75
Dissipation at helding	holding	VA	9
Dissipation at holding	≥2U U ƏU∏Z	W	2.5
Max cycles frequency		cyclos/b	3600
Mechanical operation		cycles/h	3000
Operating times	ontrol		
Average time for Us of	in AC		
	Closing NO		
	Closing NO min	ms	8
		1113	

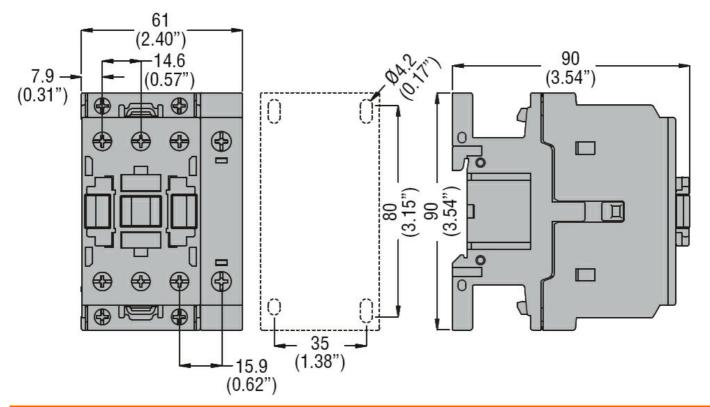




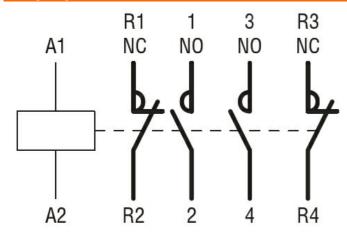
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max	ms	24
Opening NO		
min	ms	5
max	ms	15
Closing NC		
min	ms	11
max	ms	29
Opening NC		
min	ms	6
max	ms	14
UL technical data		
Rated operational voltage AC (UL)	V	600
Full-load current (FLA) for three-phase AC motor		
at 480V	Α	40
at 600V	Α	32
Yielded 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	۸	 -
Archient conditions	Α	55
Ambient conditions Temperature		
·		
Operating temperature min	°C	-50
	°C	-30 70
Storage temperature max		7.0
min	°C	-60
max	°C	80
Max altitude	m	3000
Resistance & Protection	111	
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