BF38T4A400



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 50/60HZ, 400VAC



Product designation		Power contactor
Product type designation		BF38
Contact characteristics		
Number of poles	nr.	4
Rated insulation voltage Ui	V	690
Rated impulse withstand voltage Uimp	kV	6
Operating frequency		
Operational frequency min	Hz	25
Operational frequency max	Hz	400
Conventional free air thermal current Ith	А	56
Operating current		
Operational current AC1 (≤40°C)	А	56
Operational current AC3 (≤440V ≤55°C)	А	38
Operational current AC4 (400V)	А	15.5
Rated operational power AC1 (T≤40°C)		
230V	kW	21
400V	kW	36
500V	kW	45
690V	kW	62
Rated operational power AC3 (T≤55°C)		
230V	kW	11
400V	kW	18.5
415V	kW	18.5
440V	kW	18.5
500V	kW	20
690V	kW	22
Short-time allowable current for 10s (IEC/EN60947-1)	А	320
Protection fuse		
gG (IEC)	А	63
aM (IEC)	А	40
Making capacity (RMS value)	А	380
Breaking capacity at voltage		
Breaking capacity 440V	А	304
Breaking capacity 500V	А	240
Breaking capacity 690V	А	192
Resistance per pole (average value)	mΩ	2
Power dissipation per pole (average value)		
Power dissipation pole (average value) Ith	W	6
AC3	W	2.9
Tightening torque for terminals		
min	Nm	2.5
max	Nm	3
min	lbft	1.8
max	lbft	2.2

Tightening torque for coil terminal



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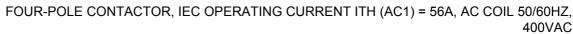
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8
	max	lbft	0.74
max number of wires simultaneously connectable		nr.	2
Conductor section			
AWG			
	min		14
	max		6
Flexible w/o lug conductor section			
	min	mm²	2.5
	max	mm²	16
Flexible c/w lug conductor section			
	min	mm²	1
	max	mm²	10
Flexible with insulated spade lug conductor section			
	min	mm²	1
	max	mm²	10
Power terminal protection according to IEC/EN 60529			IP20 when wired
Auxiliary contact characteristics			
Operational current AC1 (≤40°C)		A	56
Operating current DC13			
	110V	А	Screw / DIN rail 35mm
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Operating position			
	normal		Vertical plan
	allowable		±30°
Mounting			Screw / DIN rail 35mm
Weight		g	0.518
Operations		3	
Mechanical life		Cycles	20000000
Electrical life		Cycles	1400000
Safety related data		- , 0.00	
Performance level B10d according to EN/ISO 13489-1			
	rated load	Cicli	1400000
	mechanical load	Cicli	20000000
Virror contats according to IEC/EN 609474-4-1		0.00	yes
EMC compatibility			yes
AC coil operating			y 00
AC operating voltage			
of 50/60Hz coil powered at 50Hz			

pick-up

%Us 0.8 min

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		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz	max		0.00
	pick-up			
	piere ap	min	%Us	0.85
		max	%Us	1.1
	drop-out	max	/000	
		min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz	Παλ	/003	0.00
	-			
	pick-up		0/11-	0.0
		min	%Us	0.8
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
		holding	VA	9
Dissipation at holding :	<20°C 50Hz		W	2.5
Max cycles frequency				2.0
Mechanical operations			Cycles/h	3600
Operating times			Cycles/II	0000
Average time for Us co	ontrol			
Average lime for 03 cc				
	in AC			
	Closing NO			0
		min	ms	8
		max	ms	24
	Opening NO			r
		min	ms	5
		max	ms	15
UL technical data				
Full-load current (FLA)	for three-phase AC motor			
		at 480V	А	40
		at 600V	А	32
Yielded mechanical pe	rformance			
	for single-phase AC motor			
		at 110/120V	hp	3
		at 230V	hp	7.5
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	for three-phase AC motor			
	for three-phase AC motor	at 200/208V	hp	10
	for three-phase AC motor	at 200/208V at 220/230V	hp hp	10 15
	for three-phase AC motor	at 220/230V	hp	15
	for three-phase AC motor	at 220/230V at 460/480V	hp hp	15 30
General USE	for three-phase AC motor	at 220/230V	hp	15

General USE

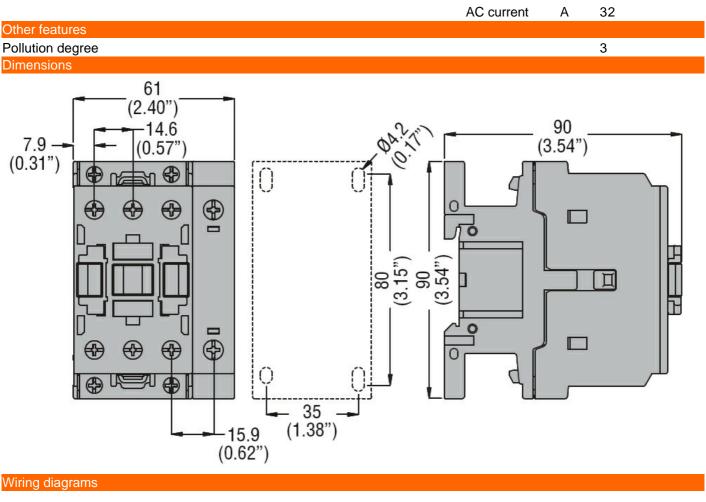
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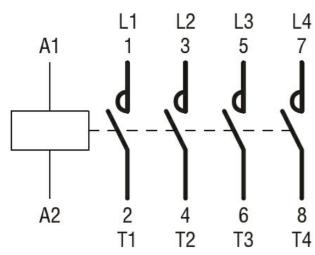


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Certifications and compliance

Certifications

CSA C22.2 n° 60947-1	
CSA C22.2 n° 60947-4-1	
IEC/EN 60947-1	
IEC/EN 60947-4-1	
UL 60947-1	
UL 60947-4-1	

Compliance

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CCC		
cULus		
EAC		

ETIM 6 classification

EC000066 - Power contactor, AC switching