BF38T4A230



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 50/60HZ, 230VAC



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		A	56
Operating current			
	Operational current AC1 (≤40°C)	А	56
	Operational current AC3 (≤440V ≤55°C)	A	38
	Operational current AC4 (400V)	A	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/EN		А	320
Protection fuse	,		
	gG (IEC)	А	63
	aM (IEC)	А	40
Making capacity (RMS value)		Α	380
Breaking capacity at voltage			
	Breaking capacity 440V	А	304
	Breaking capacity 500V	A	240
	Breaking capacity 690V	А	192
Resistance per pole (average value)	<u> </u>	mΩ	2
Power dissipation per pole (average value)			
,	Power dissipation pole (average value) Ith	W	6
	ÁC3	W	2.9
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	lbft	1.8
	max	lbft	2.2
T			

Tightening torque for coil terminal



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		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
	simultaneously connectable		nr.	2
Conductor section				
	AWG			
		min		14
		max		6
	Flexible w/o lug conductor section			0.5
		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			4
		min	mm²	1
		max	mm²	10
	tion according to IEC/EN 60529			IP20 when wired
Auxiliary contact chara				50
Operational current A			A	56
Operating current DC	13			
		110V	А	Screw / DIN rail
				35mm
Ambient conditions				
Temperature				
	Operating temperature		0.0	50
		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	0.508
Operations				
Mechanical life			Cycles	2000000
Electrical life			Cycles	1400000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	Cicli	1400000
		anical load	Cicli	20000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	, nick up			

pick-up

min %Us 0.8

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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			
	pick-up			
		min	%Us	0.85
		max	%Us	1.1
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz			
	pick-up			
		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
<u></u>	-0000 5011	holding	VA	9
Dissipation at holding :	≤20°C 50Hz		W	2.5
Max cycles frequency			Outral a a //a	2000
Mechanical operations			Cycles/h	1 3600
Operating times	antrol			
Average time for Us co				
	in AC			
	Closing NO	min	me	8
		max	ms ms	o 24
	Opening NO	IIIdA	1113	_ T
	Opening No	min	ms	5
		max	ms	15
UL technical data				
	for three-phase AC motor			
		at 480V	А	40
		at 600V	A	32
Yielded mechanical pe	erformance	at 000 V		
	for single-phase AC motor			
		at 110/120V	hp	3
		at 230V	hp	7.5
	for three-phase AC motor	ut 200 V	<u>איי</u>	
		at 200/208V	hp	10
		at 220/230V	hp	15
		at 460/480V	hp	30
			•	
		at 575/600V	hp	30

General USE

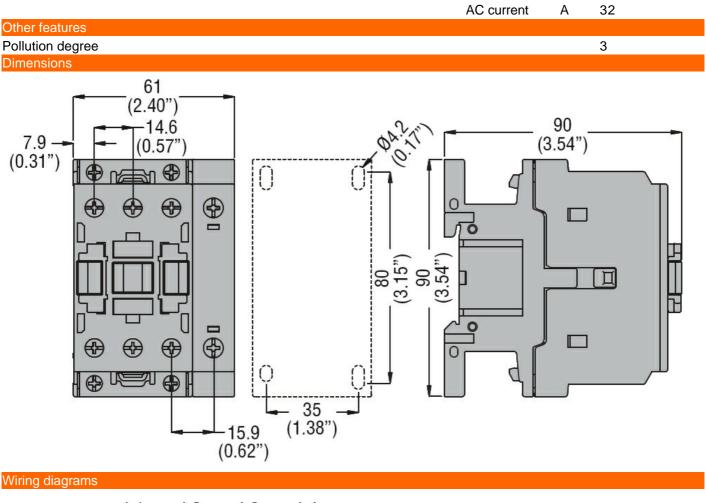
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230VAC





L1 L2 L3 L4 A1 3 5 A2 6 8 2 4 T1 T2 T3 T4

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			
1				

ETIM 6 classification

EC000066 - Power contactor, AC switching