

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 50/60HZ, 110VAC



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	Α	56
Operating current		
Operational current AC1 (≤40°C)	Α	56
Operational current AC3 (≤440V ≤55°C)	A	38
Operational current AC4 (400V)	A	15.5
Rated operational power AC1 (T≤40°C)	1 1 4 7	0.4
230V	kW	21
400V	kW	36
500V	kW	45
690V	kW	62
Rated operational power AC3 (T≤55°C)		4.4
230V	kW	11
400V	kW	18.5
415V	kW	18.5
440V	kW	18.5
500V	kW	20
Chart time allowable surrout (or 40 c (IFO/FN00047.4)	kW	22
Short-time allowable current for 10s (IEC/EN60947-1)	Α	320
Protection fuse	۸	00
gG (IEC)	A	63
Making conscity (DMS value)	A A	40
Making capacity (RMS value)	A	380
Breaking capacity at voltage	۸	204
Breaking capacity 440V	A	304
Breaking capacity 500V	A	240
Breaking capacity 690V	A mΩ	192
Resistance per pole (average value) Power dissipation per pole (average value)	11122	
Power dissipation per pole (average value) Power dissipation pole (average value) Ith	W	6
AC3	W	2.9
Tightening torque for terminals	V V	۷.5
	Nlm	2.5
min max	Nm Nm	2.5 3
min	lbft	3 1.8
max	lbft	2.2
Tightening torque for coil terminal	ibit	۷.۷



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	I	min	Nm	0.8
		nax	Nm	1
		min	lbft	0.8
		nax	lbft	0.74
	simultaneously connectable		nr.	2
Conductor section				
	AWG			4.4
		min		14
		nax		6
	Flexible w/o lug conductor section	min	mm²	2.5
		min nax	mm²	16
	Flexible c/w lug conductor section	пал	111111	10
		min	mm²	1
		nax	mm²	10
	Flexible with insulated spade lug conductor section	iiux		
		min	mm²	1
		nax	mm²	10
Power terminal protect	tion according to IEC/EN 60529	i i di X		IP20 when wired
Auxiliary contact chara				ii 20 Wilon Wilou
Operational current AC			Α	56
Operating current DC1	,			
3		I0V	Α	Screw / DIN rail 35mm
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
	r	nax	°C	70
	Storage temperature			
		min	°C	-60
	r	nax	°C	80
Max altitude			m	3000
Operating position				
	non			Vertical plan
	allowa	ble		±30°
Mounting				Screw / DIN rail 35mm
Weight			g	0.508
Operations				
Mechanical life			Cycles	20000000
Electrical life			Cycles	1400000
Safety related data	0.1			
Pertormance level B1	0d according to EN/ISO 13489-1	-	.	
	rated lo		Cicli	1400000
	mechanical le	oad	Cicli	20000000
-	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
AC operating voltage	(TO (TO) TO (
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/11	0.0
		min	%Us	0.8





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		may	%Us	1.1
	drop out	max	7005	1.1
	drop-out	min	0/116	0.2
		min	%Us	0.2
	(70/0011 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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	max	7000	
	αιορ-οαι	min	%Us	0.2
			%Us	0.55
AC an a ratio at 11 a		max	70US	0.00
AC operating voltage	(50 /001 11 1 1 1 1 1 1 1 1			
	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	<u> </u>		
	5. 55. 1 <u>2</u> 55. 1	in-rush	VA	75
		holding	VA	9
Dissipation at holding	<20°C 50H ₇	noiding	W	2.5
Max cycles frequency			VV	2.0
			Cycles/b	2600
Mechanical operations	5		Cycles/h	3000
Operating times				
Average time for Us of				
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	5
		max	ms	15
UL technical data				
Full-load current (FL A	A for three-phase AC motor			
Full-load current (FLA) for three-phase AC motor	at 490\/	٨	40
Full-load current (FLA	A) for three-phase AC motor A B B B B B B B B B B B B B B B B B B	at 480V	A	40
	,	at 480V at 600V	A A	40 32
Yielded mechanical p	erformance			
	,	at 600V	A	32
	erformance	at 600V at 110/120V	A hp	32
	erformance for single-phase AC motor	at 600V	A	32
	erformance	at 600V at 110/120V	A hp	32
	erformance for single-phase AC motor	at 600V at 110/120V	A hp	32
	erformance for single-phase AC motor	at 600V at 110/120V at 230V	hp hp	32 3 7.5
	erformance for single-phase AC motor	at 110/120V at 230V at 200/208V at 220/230V	hp hp	32 3 7.5 10 15
	erformance for single-phase AC motor	at 600V at 110/120V at 230V at 200/208V	hp hp	32 3 7.5



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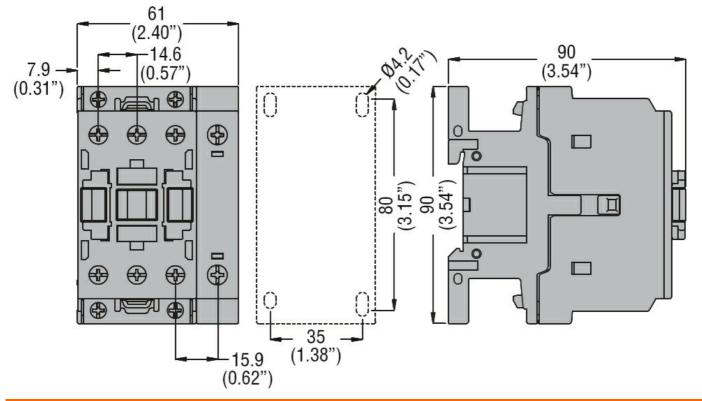
Contactor

AC current A 32

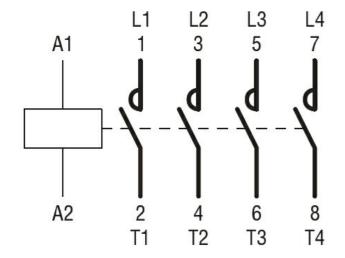
Other features

Pollution degree 3

Dimensions



Wiring diagrams



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



BF38T4A110

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CCC		
cULus	_	
EAC		

ETIM 6 classification

EC000066 - Power contactor, AC switching