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 IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		А	56
Operational current le			
	AC-1 (≤40°C)	А	56
	AC-1 (≤40°C) with 16mm² wire and fork end	lugA	60
	AC-1 (≤55°C)	Ā	45
	AC-1 (≤55°C) with 16mm² wire and fork end	lugA	48
	AC-1 (≤70°C)	Ā	40
	AC-1 (≤70°C) with 16mm² wire and fork end	lugA	42
	AC-3 (≤440V ≤55°C)	Ă	38
	AC-4 (400V)	А	15.5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	21
	400V	kW	36
	500V	kW	45
	690V	kW	62
IEC max current le in DC1 with L/R ≤ 1ms w			
	≤24V	А	35
	48V	А	30
	75V	А	23
	110V	А	8
	220V	А	_
IEC max current le in DC1 with L/R ≤ 1ms w	ith 2 poles in series		
	≤24V	А	36
	48V	А	34
	75V	А	29
	110V	А	32
	220V	А	4
IEC max current le in DC1 with L/R ≤ 1ms w			
	≤24V	А	36
	48V	A	34
	75V	A	33
	110V	A	34
	220V	A	30
IEC max current le in DC1 with L/R ≤ 1ms w			~-
	≤24V	А	36
	48V	A	34
	40 V	А	54

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	75\/	۸	22
	75V	A	33
	110V	A	34
EC may autrent to in DC2 DC5 with $1/P < 15$ may with 1 palas in action	220V	A	38
EC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series	<241	۸	24
	≤24V 48V	A	24
	48V 75V	A	20 17
	110V	A A	2,5
	220V	A	2,5
EC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series	220 V	~	_
EC max current le in DC3-DC3 with L/K = 15ms with 2 poles in series	≤24V	А	28
	≤24V 48V	A	20
	48V 75V	A	23
	110V	A	18
	220V	A	3
EC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series	2200	A	3
r = 10 max current le in 200-200 with $r = 10$ ms with 5 poles in selles	~0AV	٨	22
	≤24V 48V	A A	32
	48V 75V		28
	75V 110V	A	28 23
	220V	A A	23 25
EC max current le in DC3-DC5 with L/R \leq 15ms with 4 poles in series	220 V	~	25
EC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series	≤24V	А	32
	≤24V 48V	A	28
	48V 75V	A	28
	110V	A	23
	220V	A	15
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A	320
Protection fuse		~	520
	gG (IEC)	А	63
	aM (IEC)	A	40
Making capacity (RMS value)		A	380
Breaking capacity at voltage		~	300
breaking capacity at voltage	440V	А	304
	500V	A	240
	690V	A	192
Resistance per pole (average value)	030 V	mΩ	2
Power dissipation per pole (average value)		11152	Z
Power dissipation per pole (average value)	lth	W	6
	AC-3	W	2.9
Tightening torque for terminals	AC-3	vv	2.9
nymening lorque for leminals	min	Nm	2.5
	min	Nm	2.5 3
	max min	Ibin	3 1.8
	max	Ibin	2.2
Tightening torque for coil terminal	Παλ		2.2
	min	Nm	0.9
	min	Nm Nm	0.8 1
	max	Ibin	
	min		0.8
	max	lbin Nr.	0.74
Max number of wires simultaneously connectable		N 1.0	·)

AWG/Kcmil

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		max		6
	Flexible w/o lug conductor section	Пах		0
	5	min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
		min	mm²	1
	Elevible with inculated anode lug conduct	max	mm²	10
	Flexible with insulated spade lug conduct	or section min	mm²	1
		max	mm²	10
		max		IP20 when
	tion according to IEC/EN 60529			properly wired
Mechanical features				
Operating position) (anti-al alam
		normal allowable		Vertical plan ±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	508
Conductor section				
	AWG/kcmil conductor section			
		max		6
Operations			es cel	20000000
Mechanical life Electrical life			cycles	2000000
Safety related data			cycles	1400000
	0d according to EN/ISO 13489-1			
		rated load	cycles	1400000
		mechanical load	cycles	2000000
Mirror contats according	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	230
AC operating voltage	of 50/60Hz apil powered at 50Hz			
	of 50/60Hz coil powered at 50Hz pick-up			
	pick up	min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up	min	%Us	85
		max	%Us %Us	85 110
	drop-out	Παλ	/003	
		min	%Us	20
		max	%Us	55
AC average coil consu	•			
	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
		III-IUSI	VA	10

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		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				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co				
	in AC			
	Closing NO			_
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	5
		max	ms	15
	Closing NC			
		min	ms	9
		max	ms	20
	Opening NC			
		min	ms	9
		max	ms	17
UL technical data				
Full-load current (FLA)	for three-phase AC motor			
		at 480V	А	40
		at 600V	А	32
Yielded mechanical pe	erformance			
	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	А	55
Short-circuit protection) fuse. 600V			
	High fault			
	g. i taan	Short circuit current	kA	100
		Fuse rating	A	100
		Fuse class	/ \	J
	Standard fault	1 030 01033		<u> </u>
		Short circuit current	kA	5
		Fuse rating	A	150
Ambient conditions			~	
Temperature				
remperature	Operating temperature			
	Operating temperature		°C	50
		min		-50
		max	°C	70
	Storage temperature		° ^	<u> </u>
		min	°C	-60
		max	°C	80

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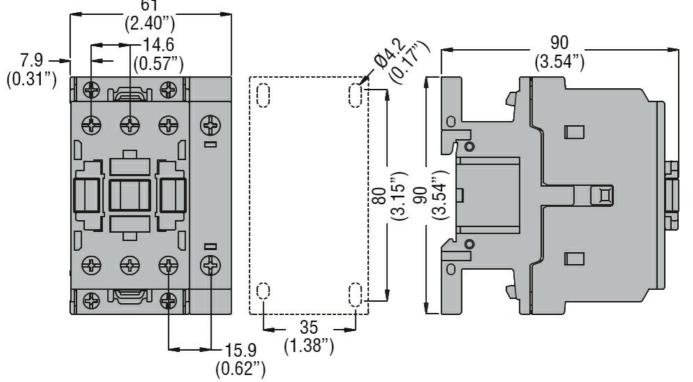
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ENERGY AND AUTOMATION

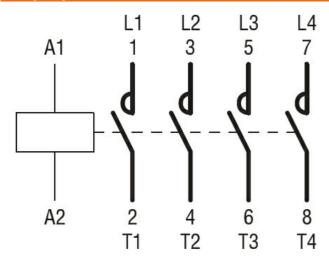
Max altitude

Dimensions

3000 m Resistance & Protection Pollution degree 3 61



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

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CULus EAC ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching