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 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	Α	56
Operational current le		
AC-1 (≤40°C)	А	56
AC-1 (≤40°C) with 16mm² wire and fork en	d lugA	60
AC-1 (≤55°C)	А	45
AC-1 (≤55°C) with 16mm² wire and fork en		48
AC-1 (≤70°C)	А	40
AC-1 (≤70°C) with 16mm² wire and fork en	d lugA	42
AC-3 (≤440V ≤55°C)	A	38
AC-4 (400V)	A	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 $L/R \le 1$ ms with 1 poles in series		
≤24V	A	35
48V	Α	30
75V	A	23
110V	A	8
220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series		
≤24V	A	36
48V	A	34
75V	A	29
110V	A	32
220V	A	4
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series		0.0
≤24V	A	36
48V	A	34
75V	A	33
110V	A	34
220V	A	30
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series	~	20
≤24V 48V	A	36
481/	А	34

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FOUR-POLE CONTACTOR, IEC OPERATIN 400VAC

NG CURRENT ITH (AC1) = 56A,	, AC COIL 50/60HZ,
	400\/AC

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EC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series	220V	A	38
	≤24V	А	24
	48V	A	20
	75V	A	17
	110V	А	2,5
	220V	А	_
EC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	≤24V	Α	28
	48V	A	25
	75V	A	22
	110V	A	18
EC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series	220V	A	3
	≤24V	А	32
	48V	A	28
	75V	A	28
	110V	А	23
	220V	А	25
EC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
	≤24V	А	32
	48V	А	28
	75V	A	28
	110V	A	23
Chart time allowable aurent for 40a (IEC/ENCO047.4)	220V	<u>A</u>	15
Short-time allowable current for 10s (IEC/EN60947-1) Protection fuse		A	320
	gG (IEC)	А	63
	aM (IEC)	A	40
Making capacity (RMS value)	()	A	380
Breaking capacity at voltage			
	440V	А	304
	500V	А	240
	690V	Α	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			_
	Ith	W	6
Fightening torque for terminals	AC-3	W	2.9
rightening torque for terminals	min	Nm	2.5
	max	Nm	3
	min	Ibin	3 1.8
	max	Ibin	2.2
Fightening torque for coil terminal		Nm	0.8
Fightening torque for coil terminal	min	1 1 1 1	
Fightening torque for coil terminal	min max	Nm	1
Fightening torque for coil terminal			1 0.8

AWG/Kcmil

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	may		6
Flexible w/o lug conductor section	max		0
	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 sect		2	
	min	mm²	1
	max	mm²	10 IP20 when
Power terminal protection according to IEC/EN 60529			properly wired
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight		g	518
Conductor section			
AWG/kcmil conductor section			
	max		6
Operations Mechanical life		ovalaa	20000000
Mechanical life Electrical life		cycles	20000000 1400000
Safety related data		cycles	1400000
Performance level B10d according to EN/ISO 13489-1			
	rated load	cycles	1400000
	mechanical load	cycles	20000000
Mirror contats according to IEC/EN 609474-4-1			yes
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60Hz		V	400
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
·			
pick-up	min	%He	80
·	min max	%Us %Us	80 110
·	min max	%Us %Us	80 110
pick-up			
pick-up	max	%Us	110
pick-up drop-out of 50/60Hz coil powered at 60Hz	max min	%Us %Us	110 20
pick-up drop-out	max min max	%Us %Us %Us	110 20 55
pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us %Us	110 20 55 85
pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us	110 20 55
pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us	110 20 55 85 110
pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max min	%Us %Us %Us %Us %Us	110 20 55 85 110 20
pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max	%Us %Us %Us %Us %Us	110 20 55 85 110
pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out AC average coil consumption at 20°C	max min max min max min	%Us %Us %Us %Us %Us	110 20 55 85 110 20
pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min	%Us %Us %Us %Us %Us	110 20 55 85 110 20
pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz	max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	110 20 55 85 110 20 55
pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out AC average coil consumption at 20°C	max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	110 20 55 85 110 20 55 75

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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			0
		min	ms	8
		max	ms	24
	Opening NO			-
		min	ms	5
		max	ms	15
	Closing NC		ma	9
		min	ms	
	Opening NO	max	ms	20
	Opening NC		ma	9
		min	ms	9 17
UL technical data		max	ms	17
	for three-phase AC motor			
	ior intee-phase AC motor	at 480V	А	40
		at 600V	A	32
Yielded mechanical pe	rformance	at 000 v	7	52
	for single-phase AC motor			
	for single phase Ao motor	110/120V	HP	3
		230V	HP	7.5
	for three-phase AC motor	2001		1.0
		200/208V	HP	10
		220/230V	HP	15
		460/480V	HP	30
		575/600V	HP	30
General USE		0.0,000		
	Contactor			
		AC current	А	55
Short-circuit protection	fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	A	100
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	A	150
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80

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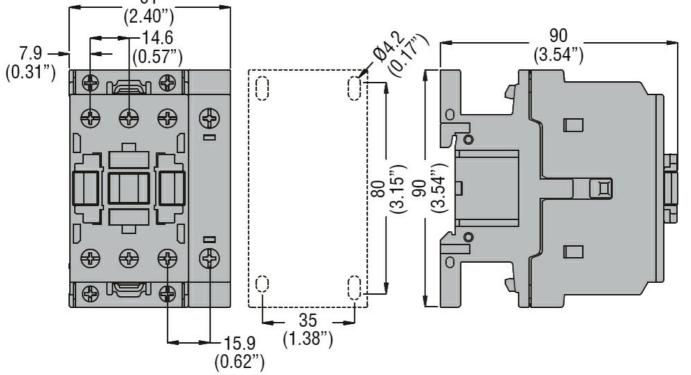
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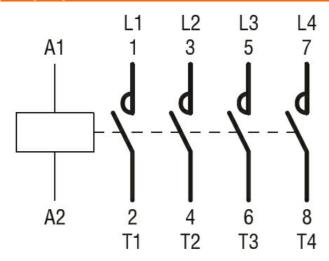
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ENERGY AND AUTOMATION

3000 Max altitude m Resistance & Protection Pollution degree 3 Dimensions 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