BF38T4A57560



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 56A, AC COIL 60HZ, 575VAC



Product designation		Power contacto
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)	Ă	45
AC-1 (≤55°C) with 16mm² wire and fork end	lugA	48
AC-1 (≤70°C)	Ă	40
AC-1 (≤70°C) with 16mm² wire and fork end	lugA	42
AC-3 (≤440V ≤55°C)	Ā	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 $L/R \le 1$ ms with 1 poles in series		
≤24V	А	35
48V	А	30
75V	А	23
110V	А	8
220V	А	_
IEC max current le in DC1 with $L/R \le 1$ ms with 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 $L/R \le 1$ ms with 3 poles in series		
≤24V	А	36
48V	А	34
75V	А	33
110V	А	34
220V	А	30
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series		
		~~
≤24V	Α	36



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	75V	А	33
	110V	А	34
	220V	А	38
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	А	24
	48V	A	20
	75V	A	17
	110V	A	2,5
	220V	A	
IFC may automate to in DC2 DC5 with 1/D < 15mg with 2 males in action	2200	A	_
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series	(0.1)		00
	≤24V	A	28
	48V	A	25
	75V	A	22
	110V	A	18
	220V	A	3
IEC max current le in DC3-DC5 with L/R \leq 15ms with 3 poles in series			
	≤24V	А	32
	48V	А	28
	75V	А	28
	110V	А	23
	220V	А	25
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	А	32
	48V	A	28
	48V 75V	A	28
	110V	A	23
	220V	A	15
Short time allowable surront for 10s (IEC/ENC0047.1)	2200	A	
Short-time allowable current for 10s (IEC/EN60947-1)		A	320
Protection fuse			
	gG (IEC)	A	63
	aM (IEC)	A	40
Making capacity (RMS value)		A	380
Breaking capacity at voltage			
	440V	А	304
	500V	А	240
	690V	А	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
	lth	W	6
	AC-3	W	2.9
Tightening torque for terminals	//0 0		2.0
	min	Nm	2.5
		Nm	3
	max		
	min	lbin	1.8
Tink to show to see the set to set	max	lbin	2.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8
	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
	max		

AWG/Kcmil



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6

max

		473	•
	Flexible w/o lug conductor section		
	m	in mm²	2.5
	ma	ax mm²	16
	Flexible c/w lug conductor section		
	m	in mm²	1
	ma	•	10
	Flexible with insulated spade lug conductor section		
	m	in mm²	1
		•	10
	ma		
Power terminal protect	tion according to IEC/EN 60529		IP20 when
	Ŭ		properly wired
Mechanical features			
Operating position			
	norm	al	Vertical plan
	allowab	le	±30°
			Screw / DIN rail
Fixing			35mm
Weight		g	504
Conductor section		9	001
	AWG/kcmil conductor section		
			0
	ma	ax	6
Operations			
Mechanical life		cycles	2000000
Electrical life		cycles	1400000
Safety related data			
Performance level B1	0d according to EN/ISO 13489-1		
	rated loa	d cycles	1400000
	mechanical loa		20000000
Mirror contats accordi	ng to IEC/EN 609474-4-1		yes
EMC compatibility			-
			yes
AC coil operating			
Rated AC voltage at 6	UHZ	V	575
AC operating voltage			
	of 60Hz coil powered at 60Hz		
	pick-up		
	m	in %Us	80
	ma	ax %Us	110
	drop-out		
	m	in %Us	20
	ma		55
AC average coil consu			
AU average coll const	•		
	of 60Hz coil powered at 60Hz	1 174	75
	in-rus		75
	holdir	-	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	ontrol		
	in AC		
	Closing NO		
	-	in mo	8
	m		
	ma	ax ms	24

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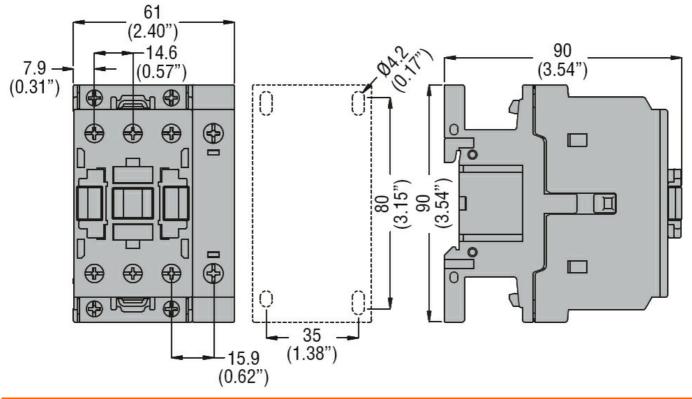


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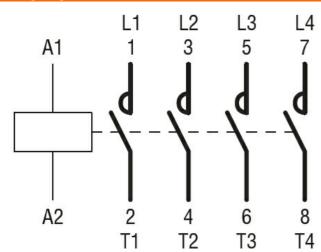
	Opening NO			
		min	ms	5
		max	ms	15
	Closing NC			
	0.00	min	ms	9
		max	ms	20
	Opening NC	max	me	20
	oponing ito	min	ms	9
		max	ms	3 17
UL technical data		max	1113	17
	A) for three-phase AC motor			
	A) for three-phase Ao motor	at 480V	А	40
		at 600V	A	32
Violded mechanical		at 600 v	A	32
Yielded mechanical				
	for single-phase AC motor	440/4001		0
		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	Α	55
Short-circuit protection	on fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	А	100
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	А	150
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°Č	80
Max altitude			m	3000
Resistance & Protec	tion			
Pollution degree				3
Dimensions				<u> </u>
Bincholono				



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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
	cULus
	EAC
ETIM classification	

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ETIM 8.0

EC000066 -Power contactor, AC switching