BF3800A22060



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 60HZ, 220VAC



Product designation			Power contactor
Product type designation			BF38
Contact characteristics			51.00
Number of poles		Nr.	3
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 16mm ² wire and fork end	lugA	60
	AC-1 (≤55°C)	A	45
	AC-1 (≤55°C) with 16mm² wire and fork end	lugA	48
	AC-1 (≤70°C)	A	40
	AC-1 (≤70°C) with 16mm² wire and fork end	lugA	42
	AC-3 (≤440V ≤55°C)	A	38
	AC-4 (400V)	А	15.5
Rated operational power AC-3 (T≤55°C)			
	230V	kW	11
	400V	kW	18.5
	415V	kW	18.5
	440V	kW	18.5
	500V	kW	20
	690V	kW	22
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	A	-
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	Α	4
IEC max current le in DC1 with $L/R \le 1$ ms with			
	≤24V	А	36

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	48V	А	34
	75V	А	33
	110V	А	34
	220V	А	30
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	36
	48V	A	34
	75V	A	33
	110V	A	34
	220V	A	38
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	220 V	~	50
TEC max current le in DC5-DC5 with E/IC = 15ms with 1 poles in series	≤24V	А	24
	≤24V 48V	A	
			20
	75V	A	17
	110V	A	2,5
	220V	A	-
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	≤24V	А	28
	48V	A	25
	75V	А	22
	110V	А	18
	220V	А	3
IEC max current le in DC3-DC5 with $L/R \le 15$ ms 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
	75V	A	28
	110V	A	23
	220V	A	15
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A	320
		A	320
Protection fuse			<u></u>
	gG (IEC)	A	63
	aM (IEC)	<u>A</u>	40
Making capacity (RMS value)		А	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)			
	lth	W	6
	AC-3	W	2.9
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	Ibin	1.8
	max	Ibin	2.2
Tink to sign to some for a sill to main all	Παλ	10111	<u> </u>

Tightening torque for coil terminal



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		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			2
		max		6
	Flexible w/o lug conductor section	min	mm2	2.5
		min	mm² mm²	2.5 16
	Flexible c/w lug conductor section	max		10
	Flexible C/w lug conductor section	min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conduc			10
	The space by conducting conduction	min	mm²	1
		max	mm²	10
		тах		IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	415
Conductor section				
	AWG/kcmil conductor section			
		max		6
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	1400000
Safety related data				
Performance level B	10d according to EN/ISO 13489-1			
		rated load	cycles	1400000
		mechanical load	cycles	2000000
	ling to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating			V	220
Rated AC voltage at 6			V	220
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up		0/11-	80
		min	%Us %Us	80 110
		max	/005	110
	drop out			
	drop-out	min	%l le	20
	drop-out	min	%Us %Us	20 55
AC average coil cons		min max	%Us %Us	20 55
AC average coil cons	sumption at 20°C			
AC average coil cons		max	%Us	55
AC average coil cons	sumption at 20°C	maxin-rush	%Us VA	75
AC average coil cons	sumption at 20°C of 60Hz coil powered at 60Hz	max	%Us	55

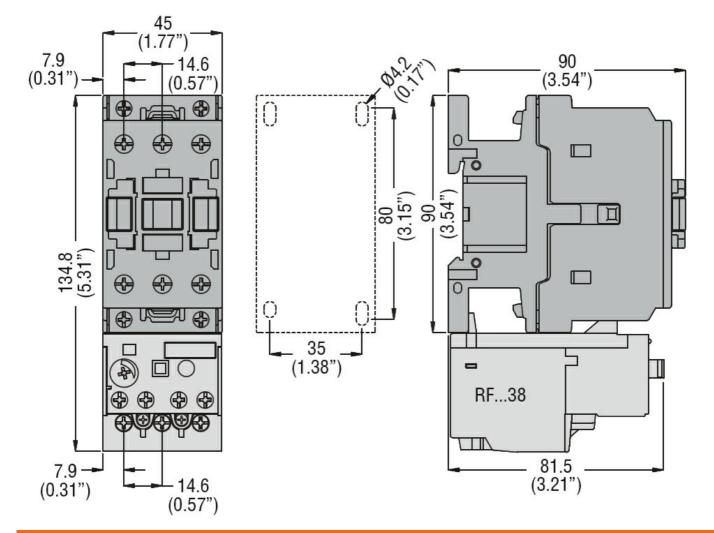


Mechanical operation		cycles/h	3600
Operating times			
Average time for Us control			
in AC			
Closing NO			
	min	ms	8
	max	ms	24
Opening NO			
	min	ms	5
	max	ms	15
Closing NC			
3 3 5	min	ms	9
	max	ms	20
Opening NC	max	mo	20
opening ree	min	ms	9
			9 17
Ill technical data	max	ms	17
UL technical data			
Full-load current (FLA) for three-phase AC motor			40
	at 480V	A	40
	at 600V	A	32
Yielded mechanical performance			
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	313/0001		50
Contactor		^	
	AC current	A	55
Short-circuit protection 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
Storago tomporaturo	Παλ	0	10
Storage temperature		° ^	60
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			

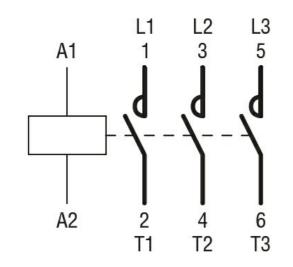
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Wiring diagrams



Certifications and 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		

Compliance



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	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classification	า	
		EC000066 -

ETIM 8.0

Power contactor, AC switching