BF3800A230



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 50/60HZ, 230VAC



Product designation			Power contacto
Product type designation			BF38
Contact characteristics			
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 16mm² wire and fork end	lugA	60
	AC-1 (≤55°C)	А	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)	А	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	h 1 poles in series		
	≤24V	Α	35
	48V	А	30
	75V	А	23
	110V	А	8
	220V	Α	-
IEC max current le in DC1 with $L/R \le 1$ ms with			
	≤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	A	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 may aurrent to in DC2 DC5 with L/D < 15mg with 1 palag in agrice	220 V	A	30
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series	<2417	٨	24
	≤24V	A	24
	48V	A	20
	75V	A	17
	110V	А	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	А	25
	75V	А	22
	110V	А	18
	220V	А	3
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
·	≤24V	А	32
	48V	A	28
	75V	A	28
	110V	A	23
	220V	A	25
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	2201		20
	≤24V	А	32
	48V	A	28
	40V 75V	A	28
		A	
	110V		23
	220V	<u>A</u>	15
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)		А	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			
	min	Nm	2.5
	max	Nm	3
		Ibin	
	min	lbin	1.8
	max	nun	2.2

Tightening torque for coil terminal



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		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
Max number of wires s	imultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		6
	Flexible w/o lug conductor section		2	<u>م -</u>
		min	mm²	2.5
	Flowible of the conductor continu	max	mm²	16
	Flexible c/w lug conductor section	min	mm²	1
			mm²	10
	Flexible with insulated spade lug conduct	max	111111	10
	T lexible with insulated space lug conduc	min	mm²	1
		max	mm²	10
		max		IP20 when
Power terminal protect	tion according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	426
Conductor section				
	AWG/kcmil conductor section			
		max		6
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	1400000
Safety related data				
Performance level B10	Dd according to EN/ISO 13489-1			
		rated load	cycles	1400000
		mechanical load	cycles	2000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating	2/2011-		N/	000
Rated AC voltage at 50	<i>υ</i> /ουπ <i>Ζ</i>		V	230
AC operating voltage	of EQ/GOUT and as EQUE			
	of 50/60Hz coil powered at 50Hz			
	pick-up	~ in	%Us	80
		min max	%Us %Us	80 110
	drop-out	IIIdX	/005	110
	diop-out	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz	max	,	
	pick-up			
	Plot up	min	%Us	85
		max	%Us	110
	drop-out	max	,	
		min	%Us	20

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		max	%Us	55
AC average coil cons	umption at 20°C			
	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	in-rush	VA	75
		holding	VA VA	9
Dissipation at holding	<20°C 50Hz	noiding	W	2.5
Max cycles frequency			vv	2.0
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us c	control			
-	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			_
		min	ms	5
		max	ms	15
	Closing NC	min	ma	9
		max	ms ms	9 20
	Opening NC	Шах	1113	20
	oporning i to	min	ms	9
		max	ms	17
UL technical data				
Full-load current (FLA) for three-phase AC motor			
		at 480V	А	40
		at 600V	A	32
Yielded mechanical p				
	for single-phase AC motor	440/400\/		2
		110/120V 230V	HP HP	3 7.5
	for three-phase AC motor	230 V	ΠF	7.5
	ior 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				
	High fault	.		
		Short circuit current	kA	100
		Fuse rating	А	100
	Ctondord foult	Fuse class		J
	Standard fault	Short circuit current	Ŀ٨	5
		Fuse rating	kA A	5 150
Ambient conditions			7	
- insight conditions				

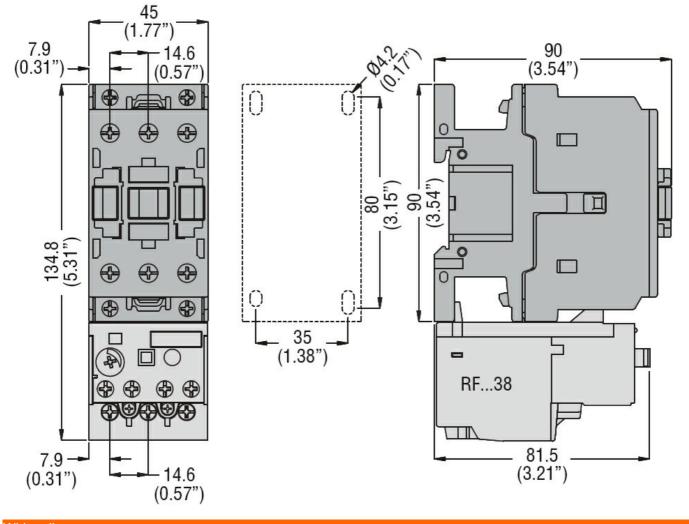
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Temperature

Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			



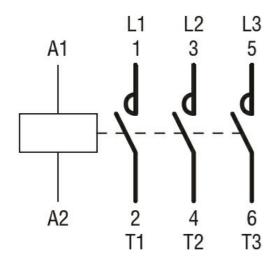
Wiring diagrams

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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	

ETIM 8.0

EC000066 -Power contactor, AC switching