BF3200A048



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 48VAC



			5
Product designation			Power contactor
Product type designation Contact characteristics			BF32
		Nle	2
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		A	56
Operational current le			
	AC-1 (≤40°C)	A	56
	AC-1 (≤55°C)	A	45
	AC-1 (≤70°C)	A	40
	AC-3 (≤440V ≤55°C)	A	32
	AC-4 (400V)	A	13.5
Rated operational power AC-3 (T≤55°C)			
	230V	kW	8.8
	400V	kW	16
	415V	kW	17
	440V	kW	17
	500V	kW	20
	690V	kW	22
Rated operational power AC-1 (T≤40°C)	000)/		0.4
	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	.0.0.1		
	≤24V	A	30
	48V	A	26
	75V	A	22
	110V	A	8
	220V	A	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	A	32
	48V	A	32
	75V	A	28
	110V	A	25
	220V	A	3
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	A	32
	48V	A	32
	75V	A	32
	110V	А	27

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	220V	А	23	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			-	
· ·	≤24V	А	_	
	48V	А	_	
	75V	А	_	
	110V	А	_	
	220V	А	_	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series				
	≤24V	А	20	
	48V	А	17	
	75V	А	15	
	110V	А	2,5	
	220V	А	_	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series				
	≤24V	А	25	
	48V	А	22	
	75V	А	20	
	110V	А	15	
	220V	А	3	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series				
	≤24V	А	30	
	48V	А	28	
	75V	А	28	
	110V	А	20	
	220V	А	23	
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series				
	≤24V	А	_	
	48V	А	_	
	75V	А	_	
	110V	А	_	
	220V	А	-	
Short-time allowable current for 10s (IEC/EN60947-1)		А	320	
Protection fuse				
	gG (IEC)	А	63	
	aM (IEC)	А	32	
Making capacity (RMS value)	. ,	А	320	
Breaking capacity at voltage				
- · · -	440V	А	256	
	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	
Tightening torque for terminals				
	min	Nm	2.5	
	max	Nm	3	
	min	Ibin	1.8	
	max	Ibin	2.2	
Tightening torque for coil terminal				
	min	Nm	0.8	
	max	Nm	1	
	min	Ibin	0.8	

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		max	lbin	0.74
Max number of wires s	imultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			<u> </u>
		max		6
	Flexible w/o lug conductor section	min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section	Шах		10
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor section			
		min	mm²	1
		max	mm²	10
Power terminal protect	tion according to IEC/EN 60529			IP20 when properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			0	430
Conductor section			g	430
	AWG/kcmil conductor section			
		max		6
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	1600000
Safety related data				
Performance level B10	0d according to EN/ISO 13489-1			
		rated load	cycles	1600000
		echanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating			V	48
Rated AC voltage at 50 AC operating voltage	0/00Hz		V	40
AC operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	hin ah	min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up		0/11	05
		min	%Us	85
		max	%Us	110
	drop out			
	drop-out	min	0/1 lo	20
	drop-out	min max	%Us %Us	20 55

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of 50/60Hz coil powered at 50Hz

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



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		<i>)</i> – 32A,		48VAC
	in-rush	VA	75	
	holding	VA	9	
owered at 60Hz				
	in much	1/4	70	

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		nolding	VA	9
	of 50/60Hz coil powered at 60Hz			
	·	in-rush	VA	70
			VA	6.5
		holding	٧A	0.5
	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				
			av al a a /b	2000
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us c	ontrol			
	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				
) for three-phase AC motor			
	i) for three-phase AC motor	-+ 400\/	٨	07
		at 480V	Α	27
		at 600V	Α	27
Yielded mechanical p	erformance			
	for single-phase AC motor			
	0	110/120V	HP	3
		230V	HP	7.5
		230 V	ΠF	1.5
	for three-phase AC motor			
		200/208V	HP	10
		220/230V	HP	10
		460/480V	HP	20
		575/600V	HP	25
		373/8887	1.11	20
General USE				
	Contactor			
		AC current	А	55
Short-circuit protection	n fuse, 600V			
	High fault			
	. i.g.i iouit	Short circuit current	kA	100
		Fuse rating	A	100
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	A	125
Ambient englitiens			~	120
Ambient conditions				
Temperature				
	Operating temperature			
		min	ംറ	-50

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°C

min

-50

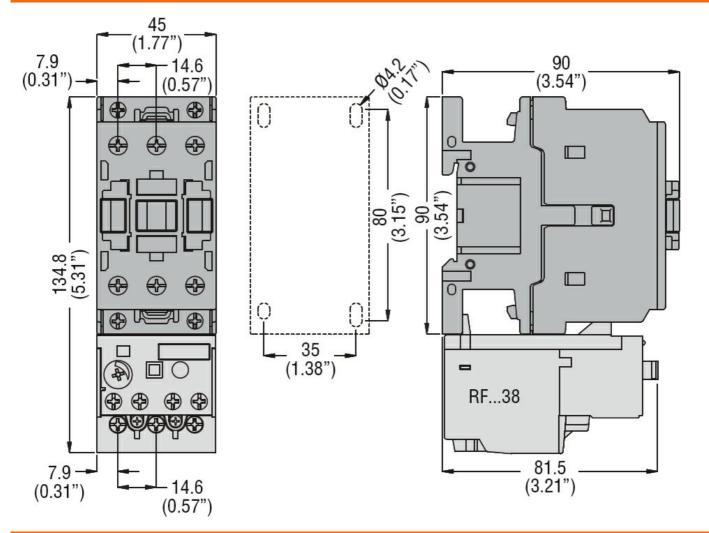


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	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

Dimensions

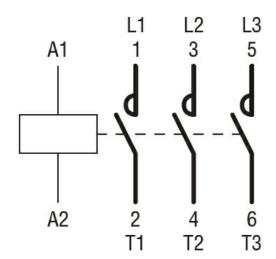


Wiring diagrams





THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 48VAC



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