

Product designation



Power contactor

Product type designation			BF32
Contact characteristics			DI 32
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
		kV	
Rated impulse withstand voltage Uimp		KV	6
Operational frequency	•		0.5
	min	Hz	25
1500	max	Hz	400
IEC Conventional free air thermal current Ith		Α	56
Operational current le			
	AC-1 (≤40°C)	Α	56
	AC-1 (≤55°C)	Α	45
	AC-1 (≤70°C)	Α	40
	AC-3 (≤440V ≤55°C)	Α	32
	AC-4 (400V)	Α	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)			
	230V	kW	21
	400V	kW	36
	500V	kW	45
	690V	kW	62
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
'	≤24V	Α	30
	48V	Α	26
	75V	A	22
	110V	Α	8
	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
Sanoncio in 50 i mai Ent = inio mai 2 poloo in oonoo	≤24V	Α	32
	48V	A	32
	75V	A	28
	110V	A	26 25
	1100	А	20

220V

≤24V

48V

75V

110V

Α

Α

Α

Α

3

32

32

32

27

IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series



	220V	Α	23
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	220 V		
120 max current to in 201 with 2/1 = 1m3 with 4 poles in 30/103	≤24V	Α	_
	48V	A	_
	75V	A	_
	110V	Α	_
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	<u>-</u>		
·	≤24V	Α	20
	48V	Α	17
	75V	Α	15
	110V	Α	2,5
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	25
	48V	Α	22
	75V	Α	20
	110V	Α	15
	220V	Α	3
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	30
	48V	Α	28
	75V	Α	28
	110V	Α	20
	220V	Α	23
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	-
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	Α	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	320
Protection fuse	. 0 (150)	۸	00
	gG (IEC)	A	63
Malina and a site (DMO control)	aM (IEC)	A	32
Making capacity (RMS value)		Α	320
Breaking capacity at voltage	4.4017	Δ.	250
	440V 500V	A A	256 240
	690V		192
Resistance per pole (average value)	090 v	A mΩ	2
Power dissipation per pole (average value)		11122	
i owoi dissipation per pole (average value)	Ith	W	6
	AC-3	W	2
Tightening torque for terminals	A0 0	V V	
Tightering torque for terminate	min	Nm	2.5
	max	Nm	3
	min	Ibin	1.8
	max	Ibin	2.2
Tightening torque for coil terminal	max		
5 · · · · · · · · · · · · · · · · · · ·	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8



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	max	lbin	0.74
	simultaneously connectable	Nr.	2
Conductor section			
	AWG/Kcmil		0
	The vibration of the second vector continu		6
	Flexible w/o lug conductor section	mm²	2.5
	min max	mm²	16
	Flexible c/w lug conductor section		10
	min	mm²	1
	max	mm²	10
	Flexible with insulated spade lug conductor section		
	min	mm²	1
	max	mm²	10
Power terminal protec	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		g	432
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	1600000
Safety related data			
Performance level B1	0d according to EN/ISO 13489-1		
	rated load	cycles	1600000
TMC compatibility	mechanical load	cycles	20000000
EMC compatibility			
AC coil operating			yes
AC coil operating	0/60Hz	V	
Rated AC voltage at 5	0/60Hz	V	24
		V	
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz	V	
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up		24
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz	%Us	
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up min		24 80
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up min max	%Us	24 80
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up min max drop-out	%Us %Us	80 110
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up min max drop-out min	%Us %Us %Us	80 110 20
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max	%Us %Us %Us %Us	80 110 20 55
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max of 50/60Hz coil powered at 60Hz	%Us %Us %Us %Us	24 80 110 20 55
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max of 50/60Hz coil powered at 60Hz pick-up min max	%Us %Us %Us %Us	80 110 20 55
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max of 50/60Hz coil powered at 60Hz pick-up min max drop-out	%Us %Us %Us %Us %Us	24 80 110 20 55 85 110
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max of 50/60Hz coil powered at 60Hz pick-up min max drop-out min max	%Us %Us %Us %Us %Us	24 80 110 20 55 85 110 20
Rated AC voltage at 5 AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max of 50/60Hz coil powered at 60Hz pick-up min max drop-out min max	%Us %Us %Us %Us %Us	24 80 110 20 55 85 110
Rated AC voltage at 5 AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max of 50/60Hz coil powered at 60Hz pick-up min max drop-out min max drop-out min max	%Us %Us %Us %Us %Us	24 80 110 20 55 85 110 20
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max of 50/60Hz coil powered at 60Hz pick-up min max drop-out min max drop-out min max drop-out min max	%Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 20 55
Rated AC voltage at 5 AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max of 50/60Hz coil powered at 60Hz pick-up min max drop-out min max drop-out min max drop-out min max umption at 20°C of 50/60Hz coil powered at 50Hz in-rush	%Us %Us %Us %Us %Us %Us	24 80 110 20 55 85 110 20 55
Rated AC voltage at 5 AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max of 50/60Hz coil powered at 60Hz pick-up min max drop-out min max drop-out min max drop-out min max drop-out min max umption at 20°C of 50/60Hz coil powered at 50Hz in-rush holding	%Us %Us %Us %Us %Us %Us	80 110 20 55 85 110 20 55
Rated AC voltage at 5 AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up min max drop-out min max of 50/60Hz coil powered at 60Hz pick-up min max drop-out min max drop-out min max drop-out min max umption at 20°C of 50/60Hz coil powered at 50Hz in-rush	%Us %Us %Us %Us %Us %Us	24 80 110 20 55 85 110 20 55



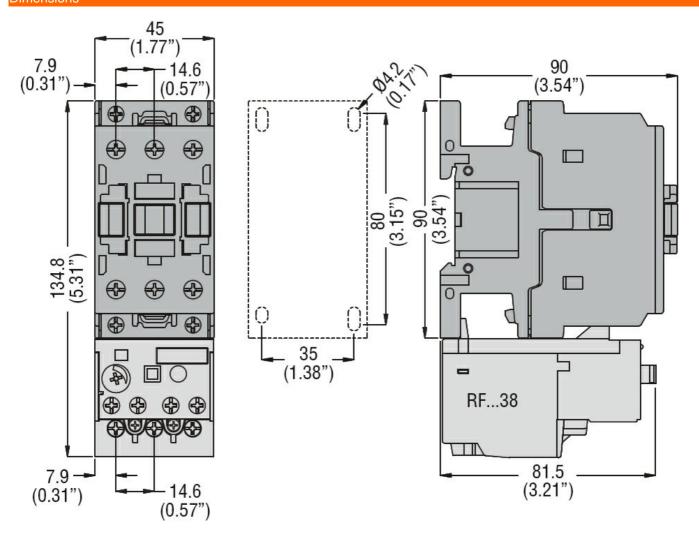
CICOLIIO	CONTACTEUR BF3200A, 3P, 32A AC3, 24V 30/60H2
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		holding	VA	6.5
	of 60Hz coil powered at 60Hz			_
		in-rush	VA	75
		holding	VA	9
Dissipation at holding ≤ Max cycles frequency	20°C 50Hz		W	2.5
Mechanical operation			cycles/h	3600
Operating times			.,	
Average time for Us co	ntrol			
3	in AC			
	Closing NO			
	ŭ	min	ms	8
		max	ms	24
	Opening NO			
	·	min	ms	5
		max	ms	15
	Closing NC			
	3	min	ms	9
		max	ms	20
	Opening NC			
		min	ms	9
		max	ms	17
UL technical data				
Rated operational volta	ge AC (UL)		V	600
	for three-phase AC motor			
,	·	at 480V	Α	27
		at 600V	Α	27
Yielded mechanical per	rformance			
·	for single-phase AC motor			
	<u> </u>	110/120V	HP	3
		230V	HP	7.5
	for three-phase AC motor			
	·	200/208V	HP	10
		220/230V	HP	10
		460/480V	HP	20
		575/600V	HP	25
General USE				
	Contactor			
		AC current	Α	55
Short-circuit protection	fuse, 600V			
•	High fault			
	-	Short circuit current	kA	100
		Fuse rating	Α	100
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	125
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
The other state	At an also with a district day on the day of the second and the se	firstions at any time. The description	e technical a	- d

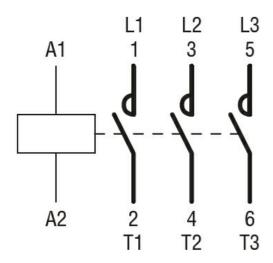


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	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			



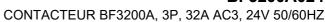
Wiring diagrams



Certifications and compliance

Compliance







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	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