

**ENERGY AND AUTOMATION** 

## THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, DC COIL, 220VDC



Product designation Product type designation			Power contactor BF32
Contact characteristics			DI 32
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
operational inequations)	min	Hz	25
	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	Α	22
	110V	Α	8
	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	32
	48V	Α	32
	75V	Α	28
	110V	Α	25
	220V	Α	3
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
	≤24V	Α	32
	48V	Α	32
	75V	Α	32
	110V	Α	27



BF3200D220

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	220V	Α	23
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
·	≤24V	Α	_
	48V	Α	_
	75V	A	_
	110V	Α	_
	220V		_
IFO	220 V	A	<del>-</del>
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series		_	
	≤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	A	15
IFO was assemble in DOO DOE will LID 445. Which is not a second of the control of	220V	A	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	A	
			_
	110V	A	_
	220V	Α .	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	320
Protection fuse			
	gG (IEC)	Α	63
	aM (IEC)	Α	32
Making capacity (RMS value)		Α	320
Breaking capacity at voltage			
	440V	Α	256
	500V	A	240
	690V	A	192
Desigtance per pale (everage vielve)	090 V		
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
	Ith	W	6
	AC-3	W	2
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	Ibin	1.8
	max	lbin	2.2
Tightening torque for coil terminal	HUX		
rightoning torque for contentinal	nain	Nim	Λ Θ
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8



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May number of wires	simultanagusly connectable	max	lbin Nr	0.74
	simultaneously connectable		Nr.	2
Conductor Section	AWG/Kemil			
	AWO/Remii	Min   mm²   2.5   max   mm²   16   max   mm²   16   max   mm²   10   max		6
	Flexible w/o lug conductor section	Nr.   2		
	3 · · · · · · · · · · · · · · · · · · ·	min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor section	n		
		min		
		max	mm²	
Power terminal protec	ction according to IEC/EN 60529			
•	<del>-</del>			properly wired
Sheraning hosinon		normal		Vertical plan
	Flexible c/w lug conductor section  Flexible with insulated spade lug conductor section  on according to IEC/EN 60529  nor allowa  AWG/kcmil conductor section  d according to EN/ISO 13489-1  rated le mechanical le g to IEC/EN 609474-4-1			
		anowabie		Screw / DIN rail
Fixing				
Veight			g	564
Conductor section			-	
	AWG/kcmil conductor section			
		max		6
Operations				
Mechanical life			cycles	
Electrical life			cycles	1600000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
			-	
dinner contete coccudi		mecnanicai ioad	cycles	
	ing to IEC/EN 609474-4-1			
				yes
	AWG/Kcmil		220	
	ye		V	220
20 operating voltage	pick-up			
	L.2 2h	min	%Us	70
	drop-out		-	
	•	min	%Us	10
				40
Average coil consump	otion ≤20°C			
		in-rush	W	5.4
		holding	W	5.4
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us o				
	in AC			

Closing NO

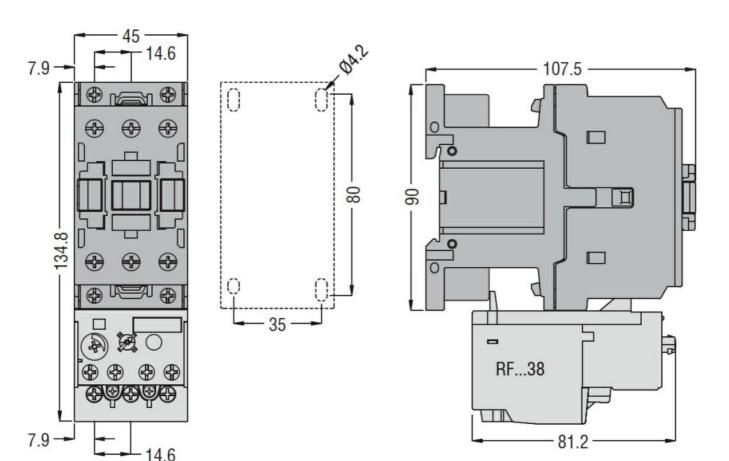


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			min	ms	8
			max	ms	24
		Opening NO	max	1110	_ '
		Opening NO	min	ms	5
			max	ms	15
		Closing NC	IIIax	1115	13
		Closing NC	min	mc	9
				ms	20
		Onanina NC	max	ms	20
		Opening NC			0
			min	ms	9
			max	ms	17
	in DC	01 1 110			
		Closing NO			
			min	ms	54
			max	ms	66
		Opening NO			
			min	ms	14
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC m	otor			
			at 480V	Α	27
			at 600V	Α	27
Yielded mechanical pe	erformance				
	for single-phase AC	motor			
	<b>5</b> 1		110/120V	HP	3
			230V	HP	7.5
	for three-phase AC i	motor			
			200/208V	HP	10
			220/230V	HP	10
			460/480V	HP	20
			575/600V	HP	25
General USE			07 07 00 0 V		
General OSL	Contactor				
	Contactor		AC current	۸	55
Chart aircuit protection	fuee 600\/		AC current	Α	33
Short-circuit protection					
	High fault		Object almost to the control	Ι. Λ	100
			Short circuit current	kA	100
			Fuse rating	Α	100
	<u> </u>		Fuse class		J
	Standard fault				_
			Short circuit current	kA	5
			Fuse rating	Α	125
Ambient conditions					
Temperature					
	Operating temperatu	ire			
			min	°C	-50
			max	°C	70
	Storage temperature	)			<del>_</del>
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on				
Pollution degree					3
Dimensions					

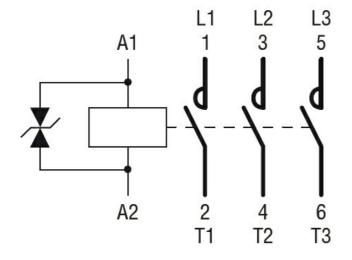


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### Wiring diagrams



### 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



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### BF3200D220

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cULus			
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching