

# THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 230VAC



Product designation	Power contactor
Product type designation	BF32

		DF3Z
	nr.	3
	V	690
	kV	6
min	Hz	25
max	Hz	400
	Α	56
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
230V	kW	8.8
400V	kW	16
415V	kW	17
440V	kW	17
500V	kW	20
690V	kW	22
230V	kW	21
400V	kW	36
500V	kW	45
690V	kW	62
≤24V	Α	30
	Α	26
	Α	22
	Α	8
220V	Α	_
≤24V	Α	32
48V	Α	32
75V	Α	28
110V	Α	25
220V	Α	3
≤24V	Α	32
48V	Α	32
75V	Α	32
110V	Α	27
	max  AC-1 (≤40°C) AC-1 (≤55°C) AC-1 (≤70°C) AC-3 (≤440V ≤55°C) AC-4 (400V)  230V 400V 415V 440V 500V 690V  230V 400V 500V 690V  ≤24V 48V 75V 110V 220V  ≤24V 48V 75V 110V 220V	W    W    W    W    W    W    W    W



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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	Α	_
	110V	Α	_
	220V	Α	_
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			
The max can six to in 200 200 man are a form with 2 points in control	≤24V	Α	25
	48V	A	22
	75V	Α	20
	110V	A	15
	220V	A	3
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	220 V		
TEC max current le in DC3-DC3 with L/R \( \) 13ms with 3 poles in series	<241/	۸	20
	≤24V 48V	A	30
	46 V 75 V	A	28
		A	28
	110V	A	20
IEO accompany ( In the DOO DOE with L/D < 45 and 10 And In the Incident	220V	Α	23
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	40.4V		
	≤24V	A	_
	48V	A	_
	75V	A	_
	110V	A	_
01 + 6 - 11 - 14 - 40 (150/51/00047.4)	220V	A	_
Short-time allowable current for 10s (IEC/EN60947-1)		Α	320
Protection fuse	0 ((=0)		
	gG (IEC)	Α	63
<del></del>	aM (IEC)	Α	32
Making capacity (RMS value)		A	320
Breaking capacity at voltage			
	440V	Α	256
	500V	Α	240
	690V	Α	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
	lth	W	6
	AC3	W	2
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	lbin	1.8
	max	lbin	2.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8



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

		max	lbft	0.74
Max number of wires	simultaneously connectable		nr.	2
Conductor section				
	Flexible w/o lug conductor section			
		min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
		min	mm²	1
	Fig. 21. 20. See Left Level 1. Level 1. Co.	max	mm²	10
	Flexible with insulated spade lug conductor			4
		min	mm² mm²	1 10
Dower terminal protes	ation according to IEC/EN 60530	max	111111	IP20 when wired
Mechanical features	ction according to IEC/EN 60529			iP20 when when
Operating position				
Operating position		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	424
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
		mechanical load	cycles	20000000
	ing to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	-0/60Hz		V	230
AC operating voltage	(50/0011 11 1 1 5011			
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/116	440
	drop-out	max	%Us	110
	drop-out	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz	IIIdA	,,,,,	
	pick-up			
	F.91. 9b	min	%Us	85
		max	%Us	110
	drop-out		-	
	•	min	%Us	20
		max	%Us	55
AC operating voltage	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
	4001	holding	VA	6.5
	of 60Hz coil powered at 60Hz			
	01 001 12 0011 poworod at 001 12	in-rush	VA	75





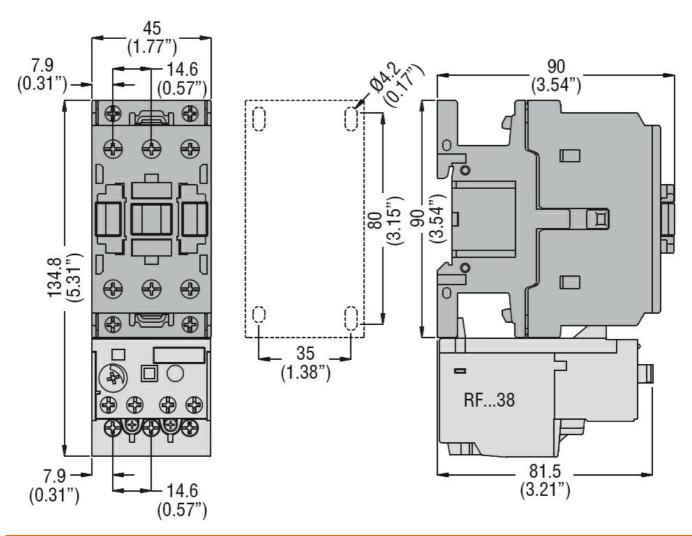
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			holding	VA	9
Dissipation at holding	≤20°C 50Hz			W	2.5
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
	in AC				
	Clo	osing NO			
		-	min	ms	8
			max	ms	24
	Op	ening NO			
			min	ms	5
			max	ms	15
	Clo	osing NC			
		-	min	ms	9
			max	ms	20
	Op	ening NC			
		•	min	ms	9
			max	ms	17
UL technical data					
	for three-phase AC motor				
,	•		at 480V	Α	27
			at 600V	Α	27
Yielded mechanical pe	rformance				
·	for single-phase AC motor				
	<b>.</b>		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
Ambient conditions					
Temperature					
1	Operating temperature				
	, 9   5		min	°C	-50
			max	°C	70
	Storage temperature				
			min	°C	-60
			max	°C	80
Max altitude				m	3000
Resistance & Protection	on				
Pollution degree					3
Dimensions					

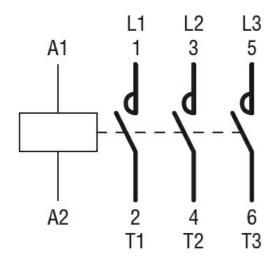
230VAC



**ENERGY AND AUTOMATION** 



#### Wiring diagrams



#### Certifications and compliance

#### Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1



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#### BF3200A230

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

	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching