



Product designation Power contactor Product type designation BF32

Product type designation			DF3Z
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		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



	220V	Α	23
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	220 V		
120 max outlone to in 201 with Ent = this with 4 poles in selies	≤24V	Α	_
	48V	A	_
	75V	A	_
	110V	A	_
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	Α	20
	48V	A	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	<u> </u>		
•	≤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	220 V	,,	
120 max cancill to in 200 200 min 211 - Tomo man o poloc in conce	≤24V	Α	30
	48V	A	28
	75V	A	28
	110V	A	20
	220V	A	23
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		23
120 max current le in 200-2003 with 2/10 13 with 4 poles in series	≤24V	Α	_
	48V	A	_
	75V	A	_
	110V	A	_
	220V	A	_
Short-time allowable current for 10s (IEC/EN60947-1)	2201	A	320
Protection fuse			320
Totodion rado	gG (IEC)	Α	63
	aM (IEC)	Α	32
Making capacity (RMS value)	aw (IEO)	A	320
Breaking capacity (Nine Value)		,,	
g capacity at totage	440V	Α	256
	500V	A	240
	690V	A	192
Resistance per pole (average value)	300 V	mΩ	2
Power dissipation per pole (average value)		11132	
The state of the s	Ith	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	max	.~1	
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8
		.~	2.0



		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		6
	Flexible w/o lug conductor section			
		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			
		min	mm²	1
		max	mm²	10
Power terminal protec	tion according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	424
Conductor section				
	AWG/kcmil conductor section			
		max		6
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
Safety related data			,	
	0d according to EN/ISO 13489-1			
		rated load	cycles	1600000
	m	echanical load	cycles	20000000
Mirror contats accordi	ng 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			<u>-</u>	
, to operating remage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	From ab	min	%Us	80
		max	%Us	110
	drop-out		,,,,,	
	3.0p 0a.	min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			· -
	pick-up			
	From ab	min	%Us	85
		max	%Us	110
	drop-out	max	,000	
	arop out	min	%Us	20
		max	%Us	55
	umption at 20°C	Пах	,,,,,	

AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz





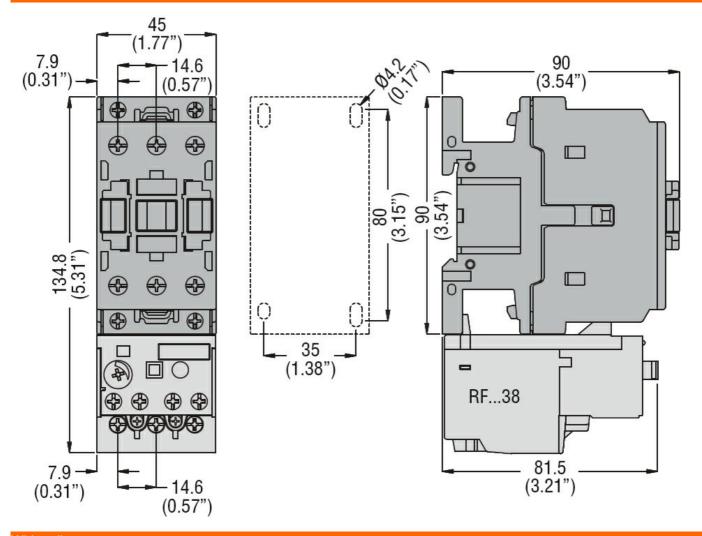
BF3200A230

		in-rush	VA	75
			VA	9
	- (FO/0011 1	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	9
Dissipation at holding :	≤20°C 50Hz	<u>_</u>	W	2.5
Max cycles frequency				
Mechanical operation			cycles/h	3600
			Cycles/11	3000
Operating times				
Average time for Us co				
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
	- t - · · · · · · · · ·	min	ms	5
		max	ms	15
	Closing NC	IIIdx	1113	.0
	Closing NC	min	m 0	0
		min	ms	9
	0 1 110	max	ms	20
	Opening NC			
		min	ms	9
		max	ms	17
UL technical data				
Full-load current (FLA)	for three-phase AC motor			
		at 480V	Α	27
		at 600V	Α	27
Yielded mechanical pe	erformance			
	for single-phase AC motor			
	for single phase No motor	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	7.0 Guildit	- / \	
onon-oncon protection				
	High fault	01		400
		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				
romporature	Operating temperature			
	Operating temperature	*.	°C	E0
		min	°C	-50



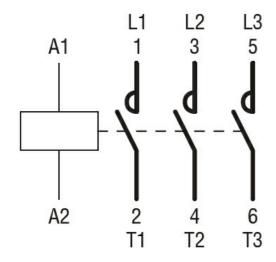
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

Dimensions



Wiring diagrams





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Certificat	ione and	comr	MIGNES
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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

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

BF3200A230

EC000066 -Power contactor, AC switching