

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 24VAC



Product designation Power contactor
Product type designation BF32

Contact characteristics

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



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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
	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



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		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
	Flexible with insulated spade lug conductor	max	mm²	10
	Flexible with insulated space lug conductors	min	mm²	1
		max	mm²	10
Power terminal protect	ction according to IEC/EN 60529			IP20 when wired
Mechanical features	9 11 11 11 11 11 11 11 11 11 11 11 11 11			
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	432
Operations Mechanical life			ovolco	20000000
Electrical life			cycles cycles	1600000
Safety related data			cycles	1600000
· · · · · · · · · · · · · · · · · · ·	0d according to EN/ISO 13489-1			
1 onomianos lovoi B1	od decorating to ETVICO TO TOO T	rated load	cycles	1600000
		mechanical load	cycles	20000000
Mirror contats accordi	ing to IEC/EN 609474-4-1			yes
EMC compatibility				
				yes
,				yes
Rated AC voltage at 5	i0/60Hz		V	yes 24
Rated AC voltage at 5			V	
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz		V	
Rated AC voltage at 5				24
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	max	V %Us	
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz		%Us	110
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	min	%Us %Us	110 20
AC coil operating Rated AC voltage at 5 AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out		%Us	110
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min	%Us %Us	110 20
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out	min	%Us %Us	110 20
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min max	%Us %Us %Us	24 110 20 55
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min	%Us %Us %Us %Us	24 110 20 55 85 110
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	min max min	%Us %Us %Us %Us	24 110 20 55 85 110 20
Rated AC voltage at 5 AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max	%Us %Us %Us %Us	24 110 20 55 85 110
Rated AC voltage at 5 AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out at 20°C	min max min max min	%Us %Us %Us %Us	24 110 20 55 85 110 20
Rated AC voltage at 5 AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min max	%Us %Us %Us %Us %Us %Us	24 110 20 55 85 110 20 55
Rated AC voltage at 5 AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out at 20°C	min max min max min max in-rush	%Us %Us %Us %Us %Us %Us	24 110 20 55 85 110 20 55
Rated AC voltage at 5 AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out at 20°C of 50/60Hz coil powered at 50Hz	min max min max min max	%Us %Us %Us %Us %Us %Us	24 110 20 55 85 110 20 55
Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out at 20°C	min max min max min max in-rush holding	%Us %Us %Us %Us %Us %Us VA	24 110 20 55 85 110 20 55 75 9
Rated AC voltage at 5 AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out at 20°C of 50/60Hz coil powered at 50Hz	min max min max min max in-rush holding in-rush	%Us	24 110 20 55 85 110 20 55 75 9
Rated AC voltage at 5 AC operating voltage	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out at 20°C of 50/60Hz coil powered at 50Hz	min max min max min max in-rush holding	%Us %Us %Us %Us %Us %Us VA	24 110 20 55 85 110 20 55 75 9

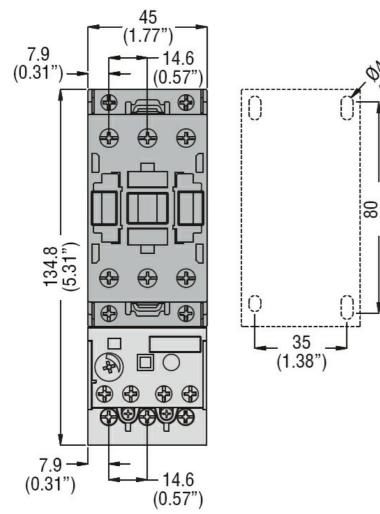


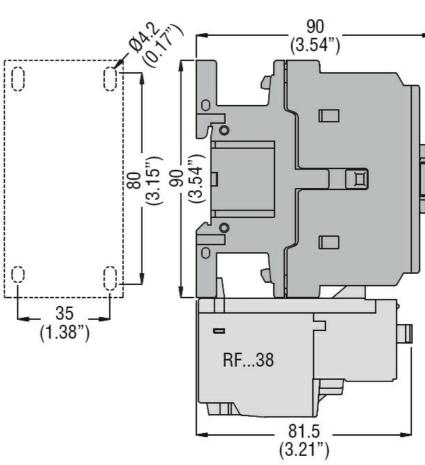


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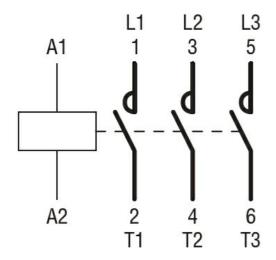
			holding	VA	9
Dissipation at holding	≤20°C 50Hz			W	2.5
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
	in AC				
	Clo	osing NO			
		-	min	ms	8
			max	ms	24
	Op	ening NO			
			min	ms	5
			max	ms	15
	Clo	osing NC			
		-	min	ms	9
			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				
	.		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					







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



BF3200A024

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	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching