



Product designation			Power contactor
Product type designation			BF32
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)	nr. 3 V 690 kV 6 min Hz 25 max Hz 400 A 56 1 (≤40°C) A 56 1 (≤55°C) A 45 1 (≤70°C) A 40 0V ≤55°C) A 32	13.5
Rated operational power AC-3 (T≤55°C)			
	230V	kW	8.8
	400V	kW	18
	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
	22 <u>0</u> V	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
	440\/	۸	27



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, DC COIL, 24VDC

	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	A	17
	75V	Α	15
	110V	Α	2,5
	220V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
TEC max current le in DC3-DC3 with E/K = 13ms with 2 poles in series	<24\/	۸	25
	≤24V	A	25
	48V	A	22
	75V	A	20
	110V	A	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			
	gG (IEC)	Α	63
	aM (IEC)	Α	32
Making capacity (RMS value)	()	Α	320
Breaking capacity at voltage		,,	020
	440V	Α	256
	500V	A	240
	690V	A	192
Posistance per pole (average value)	0901		
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)	1.1	147	^
	Ith	W	6
	AC3	W	2
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	lbin	1.8
	max	Ibin	2.2
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8





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			may	lh#	0.74
May number of wires o	simultaneously connectab	lo	max	lbft nr.	0.74
	simultaneously connectab	ile .		111.	
Conductor Section	Flexible w/o lug conduc	etar eaction			
	r lexible w/o lug corlude	Stor Section	min	mm²	2.5
			max	mm²	16
	Flexible c/w lug conduc	etor section	max		10
	Tioxibio o, wilag contact	2001011	min	mm²	1
			max	mm²	10
	Flexible with insulated s	spade lug conductor sed			
		.,	min	mm²	1
			max	mm²	10
Power terminal protect	tion according to IEC/EN	60529			IP20 when wired
	Ü				
			normal		Vertical plan
	Flexible w/o lug conductor section Flexible c/w lug conductor section Flexible with insulated spade lug conductor section Flexible with insulated spade lug conductor section Imminal protection according to IEC/EN 60529 Imminal protection according		allowable		±30°
Fixing					Screw / DIN rail
					35mm
Weight				g	554
Operations					
				cycles	20000000
				cycles	1600000
Performance level B10	0d according to EN/ISO 1	13489-1			
			rated load	cycles	1600000
			mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1				yes
					yes
	ge			V	24
DC operating voltage					
	pick-up				
			min	%Us	70
			max	%Us	125
	drop-out				
			min	%Us	10
Flexit Flexit			max	%Us	40
Average coil consump	tion ≤20°C				
			in-rush	W	5.4
			holding	W	5.4
· ·				cycles/h	3600
Average time for Us co					
	in AC	01 : 110			
		Closing NO			0
			min	ms	8
		Opening NO	max	ms	24
		Opening NO		· -	F
			min	ms	5
		Ologina NO	max	ms	15
		Closing NC			

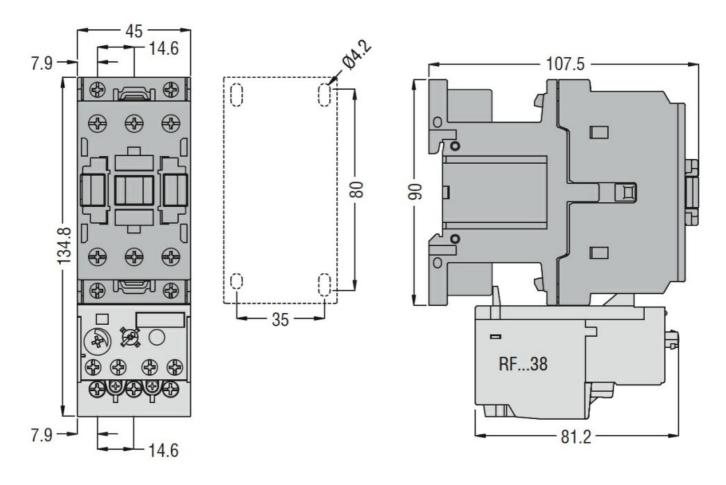




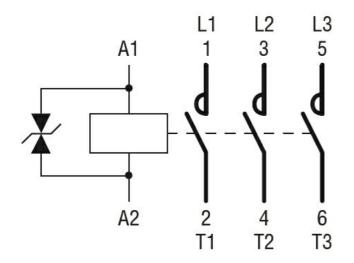
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			min	ms	9
			max	ms	20
		Opening NC			
			min	ms	9
			max	ms	17
	in DC				
		Closing NO			
			min	ms	54
			max	ms	66
		Opening NO			
			min	ms	14
			max	ms	17
UL technical data					
Full-load current (FLA)) for three-phase AC	motor			
,	, ,		at 480V	Α	27
			at 600V	Α	27
Yielded mechanical pe	erformance		4, 555		
riolada modilambar pe	for single-phase A	C motor			
	for single phase /	o motor	110/120V	HP	3
			230V	HP	7.5
	for three-phase AC	motor	200 V	- ' ' '	7.0
	ioi tillee-pilase Ac	2 motor	200/208V	HP	10
			220/230V	HP	10
			460/480V	пг HP	
					20
Canaral LICE			575/600V	HP	25
General USE	0				
	Contactor		10	۸	
A I I I I I I I I I I I I I I I I I I I			AC current	Α	55
Ambient conditions					
Temperature					
	Operating tempera	iture			
			min	°C	-50
			max	°C	70
	Storage temperatu	ire			
			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

UL 60947-4-1

Certificates

CCC



BF3200D024

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cULus			
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching