



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	10.4(.4000)		
	AC-1 (≤40°C)	A	56
	AC-1 (≤55°C)	A	45
	AC-1 (≤70°C)	A	40
	AC-3 (≤440V ≤55°C)	A	32
Poted appretional navor AC 2 (T<55°C)	AC-4 (400V)	Α	13.5
Rated operational power AC-3 (T≤55°C)	230V	kW	8.8
	400V	kW	16
	400 V 415 V	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	A	32
	75V	A	28
	110V	A	25
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	220V	Α	3
TEO MAX current le in DOT with L/K > This with 3 poles in series	≤24V	Δ	32
	≤24V 48V	A A	32
	75V	A	32
	110V	A	27
			_·



	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	A	_
IFO	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			
	≤24V	Α	25
	48V	Α	22
	75V	Α	20
	110V	A	15
150 11 1 D00 D05 111 1/D 1/5 111 0 1 1 1	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	-		
120 max carrent to in 200 200 mar 2/1/2 forms man i poisso in conto	≤24V	Α	_
	48V	A	
			_
	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			
3 y y y	440V	Α	256
	500V	A	240
	690V	A	192
Desistance manuals (suggested to be a selected)	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	Ibin	2.2
Tightening torque for coil terminal	11107		
rightering torque for contentinal	min	Nm	0.8
	min		
	max	Nm	1
	min	Ibin	0.8



ENERGY AND AUTOMATION

		max	lbin	0.74
Max number of wires	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
	Placible with insulated and do not have a series	max	mm²	10
	Flexible with insulated spade lug conductor section	min	mm²	1
		min	mm² mm²	1 10
		max	111111	IP20 when
Power terminal protect	ction according to IEC/EN 60529			properly wired
Mechanical features				Proporty Willoa
Operating position				
51 51		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				
Performance level B1	10d according to EN/ISO 13489-1			
		rated load	cycles	1600000
				1000000
		echanical load	cycles	2000000
	ing to IEC/EN 609474-4-1	echanical load	cycles	
EMC compatibility		echanical load	cycles	20000000
EMC compatibility AC coil operating	ing to IEC/EN 609474-4-1	echanical load	•	20000000 yes yes
EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz	echanical load	cycles V	20000000 yes
EMC compatibility AC coil operating	ing to IEC/EN 609474-4-1 50/60Hz	echanical load	•	20000000 yes yes
EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz	echanical load	•	20000000 yes yes
EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz		V	20000000 yes yes 230
EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz	min	V %Us	20000000 yes yes 230
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up		V	20000000 yes yes 230
EMC compatibility AC coil operating Rated AC voltage at 5	ing to IEC/EN 609474-4-1 50/60Hz of 50/60Hz coil powered at 50Hz	min max	V %Us %Us	20000000 yes yes 230
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	min max min	V %Us %Us %Us	20000000 yes yes 230 80 110 20
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	min max	V %Us %Us	20000000 yes yes 230
EMC compatibility AC coil operating 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	V %Us %Us %Us	20000000 yes yes 230 80 110 20
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	min max min max	V %Us %Us %Us %Us	20000000 yes yes 230 80 110 20 55
EMC compatibility AC coil operating 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 max	V %Us %Us %Us %Us %Us	20000000 yes yes 230 80 110 20 55
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up of 50/60Hz coil powered at 60Hz pick-up	min max min max	V %Us %Us %Us %Us	20000000 yes yes 230 80 110 20 55
EMC compatibility AC coil operating 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 max	V %Us %Us %Us %Us %Us	20000000 yes yes 230 80 110 20 55

of 50/60Hz coil powered at 50Hz



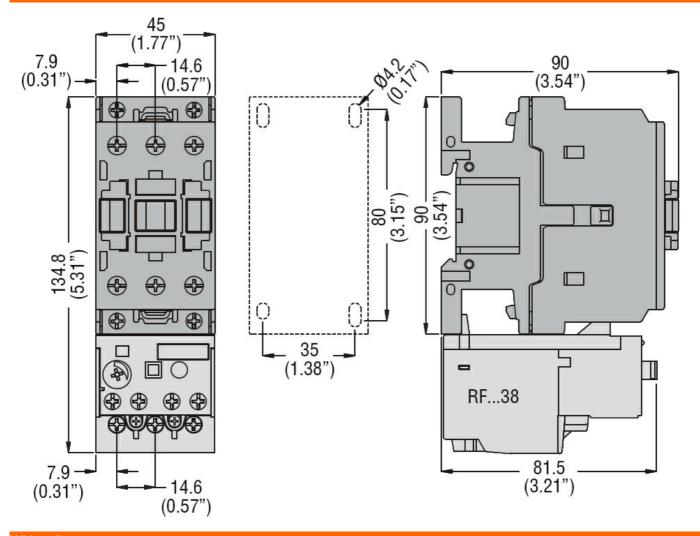
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			la mak	١/٨	75
			in-rush	VA	75
	(50 /001 "	1 (001 1	holding	VA	9
	of 50/60Hz coil power	red at 60Hz		١./٨	70
			in-rush	VA	70
			holding	VA	6.5
	of 60Hz coil powered	at 60Hz			
			in-rush	VA	75
			holding	VA	9
Dissipation at holding	≤20°C 50Hz			W	2.5
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co	ontrol				
	in AC				
		Closing NO			
			min	ms	8
			max	ms	24
		Opening NO			
			min	ms	5
			max	ms	15
		Closing NC			
		J	min	ms	9
			max	ms	20
		Opening NC			
		o promise in the	min	ms	9
			max	ms	17
UL technical data					
) for three-phase AC mo	otor			
r all load outlett (i E/i)	, for times phase no me	7.01	at 480V	Α	27
			at 400 V	A	27
Yielded mechanical pe	orformanco		at 000 v		21
rielded medianical pe		motor			
	for single-phase AC r	HOLOI	440/400\/	LID	2
			110/120V	HP	3
			230V	HP	7.5
	for three-phase AC m	notor	000/000/		4.0
			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	n fuse, 600V				
	High fault				
			Short circuit current	kA	100
			Fuse rating	Α	100
			Fuse class		J
	2				
	Standard fault				
	Standard fault		Short circuit current	kA	5
	Standard fault			kA A	5 125
Ambient conditions	Standard fault		Short circuit current Fuse rating		
Ambient conditions Temperature	Standard fault				
Ambient conditions Temperature		re			
	Standard fault Operating temperatur	re			



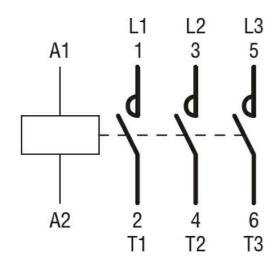
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

Dimensions



Wiring diagrams





Certifications and	d compliance
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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

cULus

EAC

ETIM classification

ETIM 8.0

BF3200A230

EC000066 -Power contactor, AC switching