



Product designation Product type designation			Power contactor 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)	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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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, DC COIL, 110VDC

	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	Α	_
	220V		_
IFO	220 V	A	-
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
IFO was assemble in DOO DOE will LID 445.	220V	A	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	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			
	440V	Α	256
	500V	A	240
	690V	A	192
Desigtance per pale (everage vielve)	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	lbin	2.2
Tightening torque for coil terminal	HUX		
rightoning torque for contentinal	nain	Nim	Λ Θ
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8





THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, DC COIL, 110VDC

			max	Ibin	0.74
	simultaneously connectable			Nr.	2
Conductor section	A1A/O/I/				
	AWG/Kcmil				6
	Flovible w/e lug conductor	acation	max		6
	Flexible w/o lug conductor	Section	min	mm²	2.5
			max	mm²	16
	Flexible c/w lug conductor	section	max		10
	r lexible of W lag confactor		min	mm²	1
			max	mm²	10
	Flexible with insulated spa	de lug conductor sect			
	·	· ·	min	mm²	1
			max	mm²	10
Power terminal prote	ction according to IEC/EN 60	529			IP20 when properly wired
Mechanical features					· · ·
Operating position					
			normal allowable		Vertical plan ±30°
Fixing					Screw / DIN rail 35mm
Weight				g	558
				J	
Operations					
Mechanical life				cycles	20000000
Operations Mechanical life Electrical life				cycles cycles	20000000 1600000
Mechanical life					
Mechanical life Electrical life Safety related data	10d according to EN/ISO 134	89-1			
Mechanical life Electrical life Safety related data	10d according to EN/ISO 134	89-1	rated load		1600000
Mechanical life Electrical life Safety related data Performance level B	10d according to EN/ISO 134	89-1	rated load mechanical load	cycles	1600000
Mechanical life Electrical life Safety related data Performance level B EMC compatibility	10d according to EN/ISO 134	89-1		cycles	1600000
Mechanical life Electrical life Safety related data Performance level B EMC compatibility DC coil operating		89-1		cycles cycles cycles	1600000 1600000 20000000 yes
Mechanical life Electrical life Safety related data Performance level B EMC compatibility DC coil operating DC rated control volt	age	89-1		cycles	1600000 1600000 20000000
Mechanical life Electrical life Safety related data Performance level B EMC compatibility DC coil operating DC rated control volt	age	89-1		cycles cycles cycles	1600000 1600000 20000000 yes
Mechanical life Electrical life Safety related data Performance level B EMC compatibility DC coil operating DC rated control volt	age	89-1	mechanical load	cycles cycles cycles	1600000 1600000 20000000 yes
Mechanical life Electrical life Safety related data Performance level B EMC compatibility DC coil operating DC rated control volt	age	89-1	mechanical load	cycles cycles cycles	1600000 1600000 20000000 yes 110
Mechanical life Electrical life Safety related data Performance level B EMC compatibility DC coil operating DC rated control volt	age e pick-up	89-1	mechanical load	cycles cycles cycles	1600000 1600000 20000000 yes
Mechanical life Electrical life Safety related data Performance level B EMC compatibility DC coil operating DC rated control volt	age	89-1	mechanical load min max	cycles cycles cycles V %Us %Us	1600000 1600000 20000000 yes 110 70 125
Mechanical life Electrical life Safety related data Performance level B EMC compatibility DC coil operating DC rated control volt	age e pick-up	89-1	mechanical load min max min	cycles cycles cycles V %Us %Us %Us	1600000 1600000 20000000 yes 110 70 125
Mechanical life Electrical life Safety related data Performance level B EMC compatibility DC coil operating DC rated control volt DC operating voltage	age pick-up drop-out	89-1	mechanical load min max	cycles cycles cycles V %Us %Us	1600000 1600000 20000000 yes 110 70 125
Mechanical life Electrical life Safety related data Performance level B EMC compatibility DC coil operating DC rated control volt DC operating voltage	age pick-up drop-out	89-1	mechanical load min max min max	cycles cycles cycles V %Us %Us %Us %Us	1600000 1600000 20000000 yes 110 70 125 10 40
Mechanical life Electrical life Safety related data Performance level B EMC compatibility DC coil operating DC rated control volt DC operating voltage	age pick-up drop-out	89-1	mechanical load min max min max in-rush	cycles cycles cycles V %Us %Us %Us %Us %Us	1600000 1600000 200000000 yes 110 70 125 10 40 5.4
Mechanical life Electrical life Safety related data Performance level B EMC compatibility DC coil operating DC rated control volt DC operating voltage	age pick-up drop-out aption ≤20°C	89-1	mechanical load min max min max	cycles cycles cycles V %Us %Us %Us %Us	1600000 1600000 20000000 yes 110 70 125 10 40
Mechanical life Electrical life Safety related data Performance level B EMC compatibility DC coil operating DC rated control volt DC operating voltage Average coil consum	age pick-up drop-out aption ≤20°C	89-1	mechanical load min max min max in-rush	cycles cycles cycles V %Us %Us %Us %Us W W	1600000 1600000 20000000 yes 110 70 125 10 40 5.4 5.4
Mechanical life Electrical life Safety related data Performance level B EMC compatibility DC coil operating DC rated control volt DC operating voltage Average coil consum Max cycles frequence Mechanical operation	age pick-up drop-out aption ≤20°C	89-1	mechanical load min max min max in-rush	cycles cycles cycles V %Us %Us %Us %Us %Us	1600000 1600000 20000000 yes 110 70 125 10 40 5.4 5.4
Mechanical life Electrical life Safety related data Performance level B EMC compatibility DC coil operating DC rated control volt DC operating voltage Average coil consum Max cycles frequenc Mechanical operation Operating times	age pick-up drop-out aption ≤20°C	89-1	mechanical load min max min max in-rush	cycles cycles cycles V %Us %Us %Us %Us W W	1600000 1600000 20000000 yes 110 70 125 10 40 5.4 5.4
Mechanical life Electrical life Safety related data Performance level B EMC compatibility DC coil operating DC rated control volt DC operating voltage Average coil consum Max cycles frequence Mechanical operation	age pick-up drop-out pption ≤20°C	89-1	mechanical load min max min max in-rush	cycles cycles cycles V %Us %Us %Us %Us W W	1600000 1600000 20000000 yes 110 70 125 10 40 5.4 5.4
Mechanical life Electrical life Safety related data Performance level B EMC compatibility DC coil operating DC rated control volt DC operating voltage Average coil consum Max cycles frequenc Mechanical operation Operating times	age pick-up drop-out aption ≤20°C		mechanical load min max min max in-rush	cycles cycles cycles V %Us %Us %Us %Us W W	1600000 1600000 20000000 yes 110 70 125 10 40 5.4 5.4
Mechanical life Electrical life Safety related data Performance level B EMC compatibility DC coil operating DC rated control volt DC operating voltage Average coil consum Max cycles frequenc Mechanical operation Operating times	age pick-up drop-out aption ≤20°C	89-1 Dosing NO	mechanical load min max min max in-rush holding	cycles cycles cycles V %Us %Us %Us %Us W W	1600000 1600000 20000000 yes 110 70 125 10 40 5.4 5.4 3600
Mechanical life Electrical life Safety related data Performance level B EMC compatibility DC coil operating DC rated control volt DC operating voltage Average coil consum Max cycles frequenc Mechanical operation Operating times	age pick-up drop-out aption ≤20°C		mechanical load min max min max in-rush	cycles cycles cycles V %Us %Us %Us W W cycles/h	1600000 1600000 20000000 yes 110 70 125 10 40 5.4 5.4
Mechanical life Electrical life Safety related data Performance level B EMC compatibility DC coil operating DC rated control volt DC operating voltage Average coil consum Max cycles frequenc Mechanical operation Operating times	age pick-up drop-out pption ≤20°C control in AC Cle		mechanical load min max min-rush holding	cycles cycles V %Us %Us %Us W W cycles/h	1600000 1600000 20000000 yes 110 70 125 10 40 5.4 5.4 3600
Mechanical life Electrical life Safety related data Performance level B EMC compatibility DC coil operating DC rated control volt DC operating voltage Average coil consum Max cycles frequenc Mechanical operation Operating times	age pick-up drop-out pption ≤20°C control in AC Cle	osing NO	mechanical load min max min-rush holding	cycles cycles V %Us %Us %Us W W cycles/h	1600000 1600000 20000000 yes 110 70 125 10 40 5.4 5.4 3600

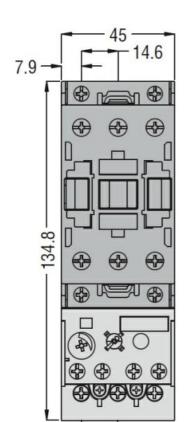


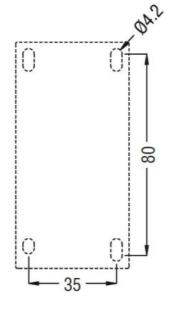


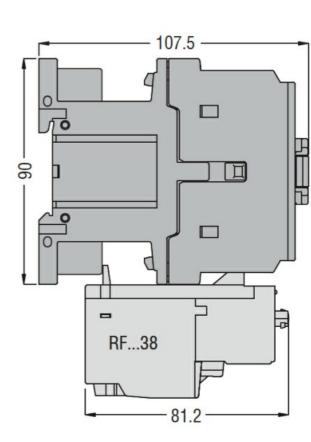
THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, DC COIL, 110VDC

	Closing NC			
		min	ms	9
		max	ms	20
	Opening NC			
	5 p s	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				
Rated operational volt			V	600
Full-load current (FLA) for three-phase AC motor			
		at 480V	Α	27
		at 600V	Α	27
Yielded mechanical pe				
	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
0 11105		575/600V	HP	25
General USE	Comtoston			
	Contactor	A.C. a	۸	
Chart aircuit protection	1 tuga 600V	AC current	A	55
Short-circuit protection				
	High fault	Short circuit current	kA	100
				100
		Fuse rating Fuse class	Α	J
	Standard fault	1 035 0035		<u> </u>
	Standard radit	Short circuit current	kA	5
		Fuse rating	A	125
Ambient conditions		. 200 1441119		
Temperature				
1	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			_
	-	min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protecti	on			
Pollution degree				3
Dimensions				



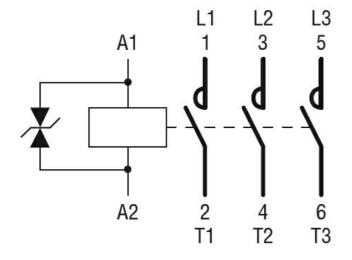






Wiring diagrams

7.9 -



14.6

Certifications and compliance

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



BF3200D110

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, DC COIL, 110VDC

cULus			
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching