

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		А	56
Operational current le			
	AC-1 (≤40°C)	А	56
	AC-1 (≤55°C)	А	45
	AC-1 (≤70°C)	А	40
	AC-3 (≤440V ≤55°C)	А	32
	AC-4 (400V)	Α	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 $L/R \le 1$ ms with 1 poles in series			
	≤24V	А	30
	48V	А	26
	75V	А	22
	110V	А	8
	220V	Α	-
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	32
	48V	А	32
	75V	А	28
	110V	A	25
	220V	A	3
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	32
	48V	А	32
	75V	A	32
	110V	A	27



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	220V	А	23
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	_
	48V	А	-
	75V	А	_
	110V	А	_
	220V	А	-
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series			
	≤24V	А	20
	48V	А	17
	75V	А	15
	110V	А	2,5
	220V	A	-
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series			
	≤24V	А	25
	48V	А	22
	75V	А	20
	110V	А	15
	220V	A	3
IEC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series			
	≤24V	A	30
	48V	А	28
	75V	А	28
	110V	А	20
	220V	A	23
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series			
	≤24V	А	_
	48V	А	_
	75V	A	_
	110V	A	-
	220V	<u>A</u>	-
Short-time allowable current for 10s (IEC/EN60947-1)		A	320
Protection fuse			
	gG (IEC)	A	63
Malina and aits (DMO status)	aM (IEC)	<u>A</u>	32
Making capacity (RMS value)		A	320
Breaking capacity at voltage	4.4017		050
	440V	A	256
	500V	A	240
	690V	A	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)	141-	14/	C
	lth	W	6
Tightoning torque for terminols	AC3	W	2
Tightening torque for terminals		Nina	2.5
	min	Nm Nm	2.5
	max	Nm	3
	min	lbin Ibin	1.8
Tightoning targue for coil terminal	max	lbin	2.2
Tightening torque for coil terminal		Nime	0.9
	min	Nm Nm	0.8
	max	Nm	1
	min	lbft	0.8



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		max	lbft	0.74
	simultaneously connectable		nr.	2
Conductor section				
	Flexible w/o lug conductor section			0.5
		min	mm²	2.5 16
	Elevible a/w lug conductor postion	max	mm²	10
	Flexible c/w lug conductor section	min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor s			10
	The space by conductor s	min	mm²	1
		max	mm²	10
Power terminal protect	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	554
Operations				
Mechanical life			cycles	2000000
Electrical life			cycles	1600000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	1600000
		mechanical load	cycles	2000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
DC coil operating			\ /	0.4
DC rated control volta	ge		V	24
DC operating voltage	niele un			
	pick-up	min	%Us	70
		min max	%Us %Us	125
	drop-out	Παλ	/003	125
		min	%Us	10
		max	%Us	40
Average coil consump	ntion <20°C	тах	/000	10
		in-rush	W	5.4
		holding	Ŵ	5.4
Max cycles frequency			•••	
Mechanical operation			cycles/h	3600
Operating times			5,5.00,11	
Average time for Us c	ontrol			
	in AC			
	Closing NO			
		min	ms	8



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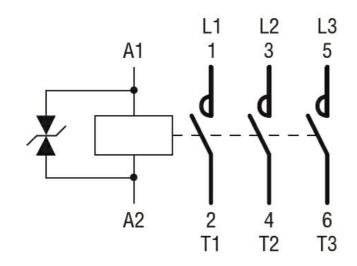
#### min ms 9 20 max ms **Opening NC** 9 min ms 17 max ms in DC Closing NO min ms 54 ms 66 max **Opening NO** min ms 14 max ms 17 UL technical data Full-load current (FLA) for three-phase AC motor at 480V А 27 at 600V А 27 Yielded mechanical performance for single-phase AC motor 110/120V HP 3 HP 230V 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 55 А Short-circuit protection fuse, 600V High fault Short circuit current kΑ 100 Fuse rating А 100 Fuse class J Standard fault Short circuit current 5 kΑ Fuse rating А 125 Ambient conditions Temperature Operating temperature °C min -50 °C 70 max Storage temperature °C -60 min °C max 80 Max altitude 3000 m Resistance & Protection Pollution degree 3 Dimensions



45 -0A.2 14.6 7.9 107.5 ()3 8 0 0 80 06 П 134.8-0 Γ 0 刘 LR: 35 -RF...38 62 

### 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 60947-1
	IEC/EN 60947-4-1
	UL 60947-1
	UL 60947-4-1
Certificates	
	CCC

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

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	cULus	
	EAC	
ETIM classification		
		EC000066 -

ETIM 8.0

EC000066 -Power contactor, AC switching