



Product designation Product type designation			Power contactor BF32
Contact characteristics			51.02
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	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
EC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series			
	≤24V	A	30
	48V	A	26
	75V	A	22
	110V	A	8
	220V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	A	32
	48V	A	32
	75V	A	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	A	32
	75V	A	32
	110V	А	27



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ENERGY AND AUTOMATION			
	220V	А	23
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	А	_
	48V	А	_
	75V	А	-
	110V	А	_
	220V	А	_
IEC max current le in DC3-DC5 with $1/R \le 15$ ms with 1 poles in series			

	220V	А	-
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	≤24V	А	20
	48V	А	17
	75V	А	15
	110V	А	2,5
	220V	А	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	А	25
	48V	А	22
	75V	А	20
	110V	А	15
	220V	А	3
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	А	30
	48V	А	28
	75V	А	28
	110V	А	20
	220V	А	23
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	А	-
	48V	А	-
	75V	А	-
	110V	А	_
	220V	А	_
Short-time allowable current for 10s (IEC/EN60947-1)		А	320
Protection fuse			
	gG (IEC)	А	63
	aM (IEC)	А	32
Making capacity (RMS value)		А	320
Breaking capacity at voltage			
	440V	А	256
	500V	А	240
	690V	А	192
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
· · · · · · · · · · · · · · · · · · ·	lth	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
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Tightening torque for coil terminal

0.8

0.8

1

Nm

Nm

Ibin

min

max

min



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lbin 0.74 max Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 6 Flexible w/o lug conductor section 2.5 min mm² mm² 16 max Flexible c/w lug conductor section mm² 1 min max mm² 10 Flexible with insulated spade lug conductor section mm² 1 min mm² 10 max IP20 when Power terminal protection according to IEC/EN 60529 properly wired Mechanical features Operating position Vertical plan normal ±30° allowable Screw / DIN rail Fixing 35mm Weight 558 g Conductor section AWG/kcmil conductor section 6 max Operations 20000000 Mechanical life cycles Electrical life 1600000 cycles Safety related data Performance level B10d according to EN/ISO 13489-1 1600000 rated load cycles 20000000 mechanical load cycles Mirror contats according to IEC/EN 609474-4-1 yes EMC compatibility yes AC coil operating AC operating voltage of 50/60Hz coil powered at 50Hz drop-out %Us 55 max DC coil operating V DC rated control voltage 48 DC operating voltage pick-up %Us 80 min %Us 110 max drop-out %Us 10 min max %Us 40 Average coil consumption ≤20°C W 2.4 in-rush holding W 2.4 Max cycles frequency

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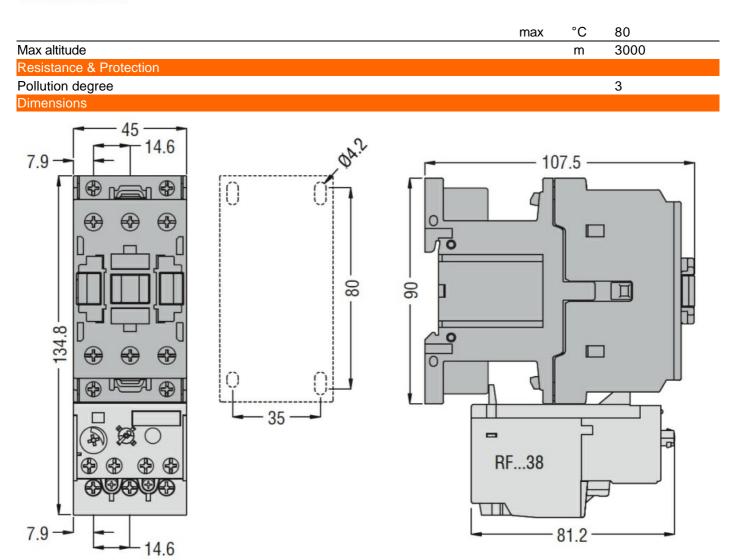
cycles/h 3600 Mechanical operation Operating times Average time for Us control in AC Closing NO 8 min ms 24 max ms **Opening NO** 5 min ms 15 max ms **Closing NC** 9 min ms max ms 20 **Opening NC** 9 min ms max 17 ms in DC **Closing NO** 76 min ms max ms 92 **Opening NO** min 16 ms 20 max ms UL technical 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 230V ΗP 7.5 for three-phase AC motor 200/208V 10 HP 220/230V HP 10 460/480V HP 20 575/600V HP 25 General USE Contactor 55 AC current А Short-circuit protection fuse, 600V High fault Short circuit current kΑ 100 100 Fuse rating А Fuse class J Standard fault 5 Short circuit current kΑ 125 Fuse rating А Ambient conditions Temperature Operating temperature °C min -50 °C max 70 Storage temperature °C -60 min

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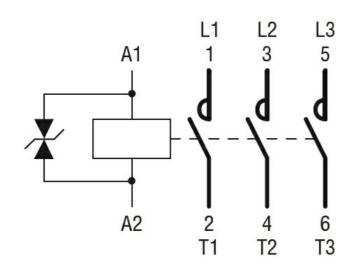
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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, DC COIL LOW CONSUMPTION, 48VDC



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1		
CSA C22.2 n° 60947-4-1		
IEC/EN/BS 60947-1		

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	IEC/EN/BS 60947-4-1	
	UL 60947-1	
	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classification		
		EC000066 -

ETIM 8.0

EC000066 -Power contactor, AC switching

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