

Product designation Product type designation			Power contactor BF18
Contact characteristics			Billo
Number of poles		Nr.	4
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	32
Operational current le			
	AC-1 (≤40°C)	А	32
	AC-1 (≤55°C)	А	26
	AC-1 (≤70°C)	А	23
	AC-3 (≤440V ≤55°C)	А	18
	AC-4 (400V)	A	8.5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series	-0.414		
	≤24V	A	17
	48V	A	15
	75V	A	15
	110V 220V	A	6
IEC may aurrent to in DC1 with L/D < 1mg with 2 polog in agrice	220 V	A	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	≤24V	А	20
	48V	A	20
	48 V 75 V	A	20
	110V	A	13
	220V	A	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			•
	≤24V	А	22
	48V	A	22
	75V	A	20
	110V	А	16
	220V	А	11
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	22
	48V	А	22
	75V	А	20
	110V	А	18
	220V	А	13



FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 32A, DC COIL, 220VDC

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		≤24V	А	12
		48V	А	11
		75V	А	11
		110V	А	2
		220V	А	_
IEC max current le in	DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series			
		≤24V	А	15
		48V	A	13
		40V 75V	A	13
		110V	A	8
		220V	A	2
IFC may aurrent le in	DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series	220 V	A	2
	$DC3-DC3$ with $L/R \le 15$ ms with 5 poles in series	<2417	^	4.0
		≤24V	A	18
		48V	A	18
		75V	A	16
		110V	A	12
		220V	A	6
IEC max current le in	DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series			
		≤24V	А	18
		48V	А	18
		75V	Α	16
		110V	А	13
		220V	А	8
Short-time allowable of	current for 10s (IEC/EN60947-1)		А	200
Protection fuse				
		gG (IEC)	А	32
		aM (IEC)	A	20
Making capacity (RMS			A	180
Breaking capacity at v			Λ	100
Dieaking capacity at v	ollage	440V	۸	1 1 1
			A	144
		500V	A	120
<b>—</b>		690V	<u>A</u>	94
Resistance per pole (a			mΩ	2.5
Power dissipation per	pole (average value)			
		lth	W	2.6
		AC-3	W	0.8
Tightening torque for t	terminals			
		min	Nm	1.5
		max	Nm	1.8
		min	Ibin	1.1
		max	lbin	1.5
Tightening torque for	coil terminal			
J J		min	Nm	0.8
		max	Nm	1
		min	Ibin	0.8
		max	Ibin	0.74
Max number of wires	simultaneously connectable	Παλ	Nr.	2
			INI.	۷
Conductor section				
	AWG/Kcmil			
		max		10
	Flexible w/o lug conductor section			
		min	mm²	1

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		2	
	Max	mm²	6
	Flexible c/w lug conductor section min	mm²	1
	max	mm²	4
	Flexible with insulated spade lug conductor section	11111	4
	min	mm²	1
	max	mm²	4
			IP20 when
Power terminal protect	tion according to IEC/EN 60529		properly wired
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail
			35mm
Weight		g	500
Conductor section			
	AWG/kcmil conductor section		
	max		10
Operations			
Mechanical life		cycles	2000000
Electrical life		cycles	1600000
Safety related data			
Performance level B10	Dd according to EN/ISO 13489-1		
	rated load	cycles	1600000
	mechanical load	cycles	20000000
Mirror contats according	ng to IEC/EN 609474-4-1		yes
EMC compatibility			yes
DC coil operating			
DC rated control voltage	ge	V	220
DC operating voltage			
	pick-up		
	min	%Us	70
	max	%Us	125
	drop-out		
	min	%Us	10
	max	%Us	40
Average coil consump	tion ≤20°C		
	in-rush	W	5.4
	holding	W	5.4
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	10
	max	ms	20
	Closing NC		
	min	ms	14
	max	ms	28

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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ENERGY AND AUTOMATION	FOUR-POLE CONT	ACTOR, IEC OPERAT	TING CURRENT ITH (AC1)	) = 32A,	DC COIL, 220VDC
		Opening NC			
			min	ms	7
			max	ms	18
	in DC				
		Closing NO			
			min	ms	54
			max	ms	66
		Opening NO			
			min	ms	14
			max	ms	17
JL technical data					
Full-load current (FLA	A) for three-phase AC ı	motor			
			at 480V	А	14
			at 600V	Α	17
Yielded mechanical p	performance				
	for single-phase AC	C motor			
			110/120V	HP	1
			230V	HP	3
	for three-phase AC	motor			
			200/208V	HP	5
			220/230V	HP	5
			460/480V	HP	10
			575/600V	HP	15
General USE					
	Contactor				
			AC current	А	32
Short-circuit protection	on fuse, 600V				
	High fault				
	-		Short circuit current	kA	100
			Fuse rating	А	60
			Fuse raing	A	00

Ambient conditions	
Temperature	

Standard fault

Temperature					
	Operating temperature				
		min	°C	-50	
		max	°C	70	
	Storage temperature				
		min	°C	-60	
		max	°C	80	
Max altitude			m	3000	
Resistance & Prot	ection				
Pollution degree				3	
Dimensions					

Short circuit current

Fuse rating

5

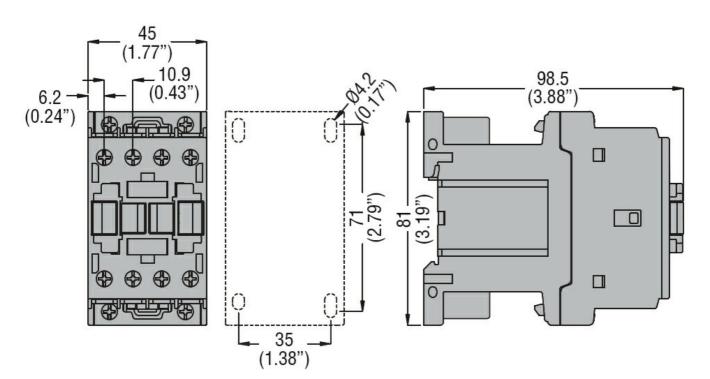
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kΑ

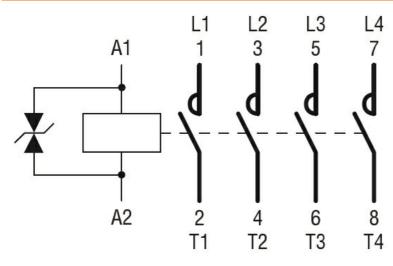
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Wiring diagrams



## Certifications and compliance

Compliance	
Certificates	
ETIM classification	
ETIM 8.0	EC000066 - Power contactor, AC switching
	Power