



Product designation			Power contactor
Product type designation Contact characteristics			BF18
Number of poles		Nr.	4
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		IX V	0
opolational inequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	max	A	32
Operational current le			
	AC-1 (≤40°C)	А	32
	AC-1 (≤55°C)	A	26
	AC-1 (≤70°C)	А	23
	AC-3 (≤440V ≤55°C)	А	18
	AC-4 (400V)	А	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			
	≤24V	А	17
	48V	А	15
	75V	А	15
	110V	А	6
	220V	Α	_
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	≤24V	А	20
	48V	А	20
	75V	А	20
	110V	A	13
	220V	A	1
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			
	≤24V	А	22
	48V	А	22
	75V	Α	20
	110V	A	16
	220V	A	11
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series	<b>_</b> · · ·	_	
	≤24V	A	22
	48V	A	22
	75V	A	20
	110V	A	18
	220V	А	13

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IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 1 poles in series			
	≤24V	А	12
	48V	А	11
	75V	А	11
	110V	А	2
	220V	А	_
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 2 poles in series			
	≤24V	А	15
	48V	A	13
	75V	A	13
	110V	A	8
	220V	A	2
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 3 poles in series	220 V	Λ	L
	≤24V	٨	10
	≤24∨ 48V	A	18
		A	18
	75V	A	16
	110V	A	12
	220V	A	6
IEC max current le in DC3-DC5 with $L/R \le 15$ ms with 4 poles in series		-	
	≤24V	A	18
	48V	A	18
	75V	A	16
	110V	А	13
	220V	A	8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	200
Protection fuse			
	gG (IEC)	А	32
	aM (IEC)	А	20
Making capacity (RMS value)		А	180
Breaking capacity at voltage			
	440V	А	144
	500V	А	120
	690V	А	94
Resistance per pole (average value)		mΩ	2.5
Power dissipation per pole (average value)			2.0
	lth	W	2.6
	AC-3	W	0.8
Tightening torque for terminals	AC-3	vv	0.0
nymening wique wi terminais		Nime	1 5
	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
	max	lbin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8
	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
	max		10
Flexible w/o lug conductor section			
č	min	mm²	1
		-	

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## 230 ČTYŘPÓLOVÝ STYKAČ, JMENOVITÝ PROUD ITH (AC1)=32A, CÍVKA 230VAC 50/60HZ

		BF	18	T4A
~	~ •	 ~ ~ ~ ~		= 0.10

		max	mm²	6
	Flexible c/w lug conductor section		_	
		min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section		2	
		min	mm²	1
		max	mm²	4
Power terminal protec	tion according to IEC/EN 60529			IP20 when properly wired
Mechanical features				property wred
Operating position				
		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	360
Conductor section				
	AWG/kcmil conductor section			
		max		10
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	1600000
	me	chanical load	cycles	20000000
Mirror contats according	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	230
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up	_		
		min	%Us	85
		max	%Us	110
	drop-out		0/11-	20
		min	%Us	20
	umption at 20°C	max	%Us	55
AC average coil consu	•			
	of 50/60Hz coil powered at 50Hz		174	75
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz		1/4	70
		in-rush	VA	70 6 5
		holding	VA	6.5
	of COUL and noward at COUL			
	of 60Hz coil powered at 60Hz	in-rush	VA	75

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## ČTYŘPÓLOVÝ STYKAČ, JMENOVITÝ PROUD ITH (AC1)=32A, CÍVKA 230VAC 50/60HZ

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 control in AC **Closing NO** 8 min ms max 24 ms **Opening NO** 10 min ms max ms 20 **Closing NC** min ms 14 28 max ms **Opening NC** 7 min ms 18 max ms UL technical data Full-load current (FLA) for three-phase AC motor at 480V А 14 at 600V А 17 Yielded mechanical performance for single-phase AC motor 110/120V HP 1 230V HP 3 for three-phase AC motor 5 200/208V HP 220/230V HP 5 460/480V HP 10 575/600V HP 15 General USE Contactor AC current A 32 Short-circuit protection fuse, 600V High fault Short circuit current kΑ 100 Fuse rating А 60 Fuse class J Standard fault Short circuit current kΑ 5 Fuse rating 80 А Ambient conditions Temperature Operating temperature °C min -50 °C 70 max Storage temperature °C -60 min °C 80 max Max altitude 3000 m Resistance & Protection

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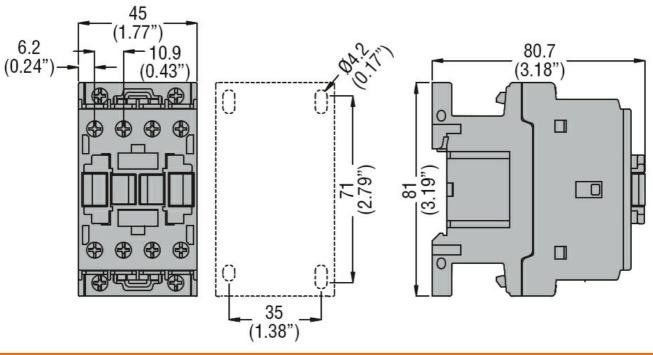
Pollution degree

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

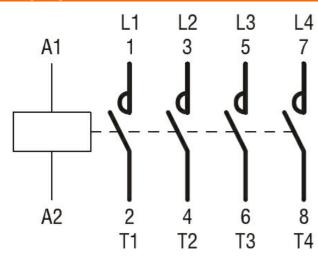
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**Dimensions** 



Wiring diagrams



## Certifications and compliance

Certifications and C	ompliance	
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		
		EC000066 -
ETIM 8.0		Power contactor,
		AC switching