



			0273 0 20 021 2
Product designation			Power contactor
Product type designation			BF18
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui		V	690
Rated impulse withstand voltage Uimp		kV	6
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		А	32
Operating current			
	Operational current AC1 (≤40°C)	А	32
	Operational current AC3 (≤440V ≤55°C)	A	18
	Operational current AC4 (400V)	А	8.5
Rated operational power AC1 (T≤40°C)			
	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
Rated operational power AC3A (T≤55°C)			
1 1 ()	Rated operational power AC3 (T≤55°C) 230)V kW	4
	Rated operational power AC3 (T≤55°C) 400		7.5
	Rated operational power AC3 (T≤55°C) 415		9
	Rated operational power AC3 (T≤55°C) 440		9
	Rated operational power AC3 (T≤55°C) 500		10
	Rated operational power AC3 (T≤55°C) 690		10
Short-time allowable current for 10s (IEC/EN		Α	200
Protection fuse	7		
	gG (IEC)	А	32
	aM (IEC)	А	20
Making capacity (RMS value)		Α	180
Breaking capacity at voltage			
5 1 9 5	Breaking capacity 440V	А	144
	Breaking capacity 500V	А	120
	Breaking capacity 690V	А	94
Resistance per pole (average value)	5 1 5	mΩ	2.5
Power dissipation per pole (average value)			
	Power dissipation pole (average value) Ith	W	2.6
	AC3	W	0.8
Tightening torque for terminals			
	min	Nm	1.5
	max	Nm	1.8
	min	lbft	1.1
	max	lbft	1.5
	Пах		

Tightening torque for coil terminal



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	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8
	max	lbft	0.74
nax number of wires simultaneously connectable		nr.	2
Conductor section			
AWG			
	min		16
	max		10
Flexible w/o lug conductor section			-
	min	mm²	1
	max	mm²	6
Flexible c/w lug conductor section			•
	min	mm²	1
	max	mm²	4
Flexible with insulated spade lug conductor section	тах		•
The sole with insulated spade hag conductor section	min	mm²	1
	max	mm²	4
Power terminal protection according to IEC/EN 60529	тах		IP20 when wired
Auxiliary contact characteristics			II 20 WHEN WICC
Type of contact			1 NO
Thermal current Ith		А	10
EC/EN 60947-5-1 designation		Λ	A600 - P600
Derational current AC1 (≤40°C)		A	32
		A	32
Operating current AC15	0001/	•	0
	230V	A	3
	400V	A	1.9
	500V	A	1.4
Operating current DC12			
	110V	A	5.7
Operating current DC13			
	24V	А	5.7
	48V	А	2.9
	60V	А	2.3
	110V	А	Screw / DIN rail 35mm
	125V	А	0.6
	220V	А	0.2
	600V	А	1.2
Ambient conditions			

Ambient co Temperature

Weight		g	0.5
wounting			35mm
Mounting			Screw / DIN rai
	allowable		±30°
	normal		Vertical plan
Operating	position		
Max altitud	e	m	3000
	max	°C	80
	min	°C	-60
	Storage temperature		
	max	°C	70
	min	°C	-50
	Operating temperature		

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Operations Mechanical life			
		Cycles	20000000
Electrical life		Cycles	1600000
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	rated load	Cicli	1600000
	mechanical load	Cicli	20000000
Mirror contats according to IEC/EN 609474-4-1			yes
EMC compatibility			yes
DC coil operating			
DC rated control voltage			
	min	V	6
DC operating voltage			
pick-up		0/11	o -
	min	%Us	0.7
	max	%Us	1.25
drop-out		0/11-	0.1
	min	%Us %Us	0.1 0.40
Average coil consuption ≤20°C	max	7005	0.40
nverage cui cunsupiion =20 C	in-rush	W	5.4
	holding	W	5.4 5.4
Max cycles frequency		vv	J.T
Max cycles neguency Mechanical operations		Cycles/h	3600
Operating times		0,000,11	0000
Average time for Us control			
in AC			
Closing NC			
Ŭ	min	ms	14
	max	ms	28
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
UL technical data			
Full-load current (FLA) for three-phase AC motor	- (400) /		
	at 480V	A	14 17
Violded mechanical performance	at 600V	A	17
Yielded mechanical performance			
for single-phase AC motor	at 110/120V	hn	1
	at 110/120V at 230V	hp	1 3
	al 230V	hp	3
for three-phase AC motor			
for three-phase AC motor	at 200/2001/	hn	5
for three-phase AC motor	at 200/208V	hp	5
for three-phase AC motor	at 200/208V at 220/230V at 460/480V	hp hp hp	5 5 10

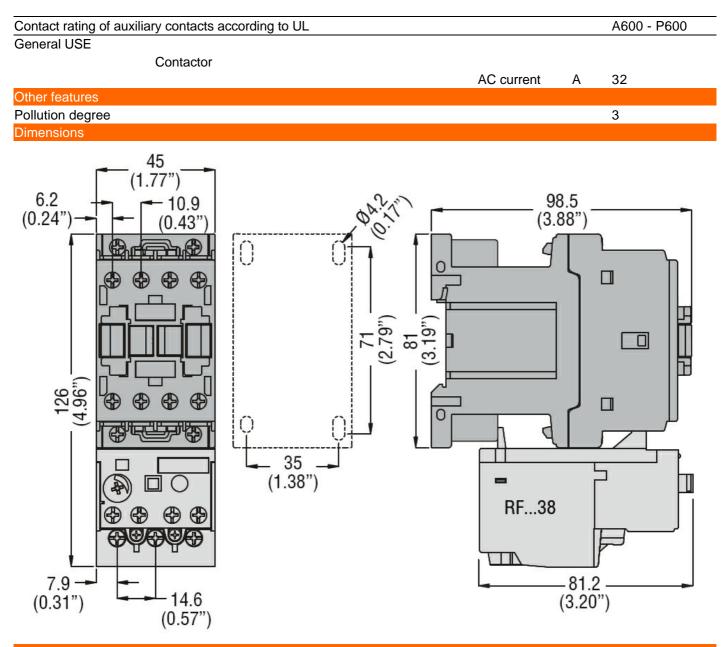
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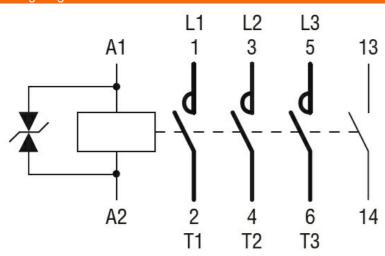


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Wiring diagrams



Certifications and compliance Certifications

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	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
Compliance	
	<u>CCC</u>
	cULus
	EAC
ETIM 6 classification	

EC000066 - Power contactor, AC switching

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