



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			0
operating nequency	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		A	32
		A	32
Operating current		•	
	Operational current AC1 (≤40°C)	A	32
	Operational current AC3 (≤440V ≤55°C)	A	18
	Operational current AC4 (400V)	A	8.5
Rated operational power AC1 (T≤40°C)			
	230V	kW	12
	400V	kW	21
	500V	kW	26
	690V	kW	36
Rated operational power AC3 (T≤55°C)			
	230V	kW	4
	400V	kW	7.5
	415V	kW	9
	440V	kW	9
	500V	kW	10
	690V	kW	10
Short-time allowable current for 10s (IEC/EN6	0947-1)	А	200
Protection fuse	,		
	gG (IEC)	А	32
	aM (IEC)	A	20
Making capacity (RMS value)		A	180
Breaking capacity at voltage			100
Dreaking suparity at voltage	Breaking capacity 440V	А	144
	Breaking capacity 500V	A	120
	Breaking capacity 500V Breaking capacity 690V	A	94
Pasistanas par pala (averaga valua)	Bleaking capacity 090 v		2.5
Resistance per pole (average value)		mΩ	2.0
Power dissipation per pole (average value)		14/	
	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

Tightening torque for coil terminal

max

lbft

1.5



	min		0.8
	max		1
	min		0.8
	max	lbft	0.74
connectable		nr.	2
	min		16
	max		10
ug conductor section			
	min	mm²	1
	max	mm²	6
ug conductor section			
	min	mm²	1
	max	mm²	4
insulated spade lug conductor section			
1 3	min	mm²	1
			4
to IEC/EN 60529			IP20 when wire
			1 NC
		Α	10
			A600 - P600
		۸	32
		A	32
	0001/	^	0
			3
			1.9
	500V	A	1.4
	110V	A	5.7
		A	5.7
		A	2.9
	60V	Α	2.3
	110\/	Δ	Screw / DIN rail
	1100	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	35mm
	125V	Α	0.6
	220V	А	0.2
	600V	А	1.2
nperature			
	min	°C	-50
	max	°C	70
perature			
	min	°C	-60
	max		80
		m	3000
	normal		Vertical plan
	normal allowable		Vertical plan +30°
	normal allowable		±30°
	connectable ug conductor section ug conductor section insulated spade lug conductor section to IEC/EN 60529	max min max connectable min max ug conductor section min max ug conductor section min max insulated spade lug conductor section min max to IEC/EN 60529 230V 400V 500V 230V 400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	max Nm min Ibft connectable nr. min mm² ug conductor section min min mm² ug conductor section min min mm² insulated spade lug conductor section min min mm² insulated spade lug conductor section min max mm² insulated spade lug conductor section min max mm² insulated spade lug conductor section min min mm² insulated spade lug conductor section A Max mm² insulated spade lug conductor section A Max mm² Max Mm² Max Mm² Max A 230V A 400V A 500V A 110V A 220V A 60V A 110V A 220V A 600V A 220V A 600V A 220V A 600V A 600V A

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ENERGY AND AUTOMATION Operations Mechanical life Cycles 20000000 Electrical life Cycles 1600000 Safety related data Performance level B10d according to EN/ISO 13489-1 1600000 rated load Cicli mechanical load Cicli 20000000 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 pick-up %Us min 0.8 %Us 1.1 max drop-out %Us 0.2 min %Us 0.55 max of 50/60Hz coil powered at 60Hz pick-up %Us 0.85 min max %Us 1.1 drop-out min %Us 0.2

	max	%Us	0.55	
of 60Hz coil powered at 60Hz				
pick-up				
	min	%Us	0.8	
	max	%Us	1.1	
drop-out				
	min	%Us	0.2	
	max	%Us	0.55	
AC operating voltage				

age		
	of 50/60Hz coil powered at 50Hz	

	in-rush	VA	75
	holding	VA	9
of 50/60Hz coil powered at 60Hz			
	in-rush	VA	70
	holding	VA	6.5
of 60Hz coil powered at 60Hz			
	in-rush	VA	75
	holding	VA	9
n at holding ≤20°C 50Hz		W	2.5
s frequency			
al operations		Cycles/h	3600
times			
me for Lle control			

Average time for Us control

in AC

Closing NO

	min	ms	8	
	max	ms	24	
Opening NO				
	min	ms	10	
	max	ms	20	

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Dissipation Max cycles Mechanica Operating t

Closing NC



min	ms	14
max	ms	28
	mo	20
Opening NC		
min	ms	7
max	ms	18
UL technical data		
Full-load current (FLA) for three-phase AC motor		
at 480V	Α	14
at 600V	А	17
Yielded mechanical performance		
for single-phase AC motor		
at 110/120V	hp	1
at 230V	hp	3
for three-phase AC motor	I.	-
		-
at 200/208V	hp	5
at 220/230V	hp	5
at 460/480V	hp	10
at 575/600V	hp	15
	чр	
Contact rating of auxiliary contacts according to UL		A600 - P600
General USE		
Contactor		
AC current	٨	32
	А	32
Other features		
Pollution degree		3
Dimensions		
6.2 (0.24") (0.43") (0		
7.9 - 14.6 (0.31") (0.57") (0.57")	Ir	

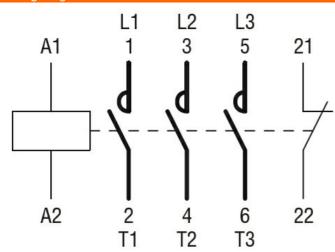
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Wiring diagrams



Certifications and compliance

Certifications

Certifications	
	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	
	CCC
	cULus
	EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching