



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)	А	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 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/EN	60947-1)	А	200
Protection fuse			
	gG (IEC)	А	32
	aM (IEC)	А	20
Making capacity (RMS value)		А	180
Breaking capacity at voltage			
	Breaking capacity 440V	А	144
	Breaking capacity 500V	А	120
	Breaking capacity 690V	А	94
Resistance per pole (average value)		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

Tightening torque for coil terminal



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		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
· · ·		max	lbft	0.74
	imultaneously connectable		nr.	2
Conductor section				
	AWG			4.0
		min		16
		max		10
	Flexible w/o lug conductor section			4
		min	mm² mm²	1 6
	Elevible elucidade conductor apotion	max	11111	0
	Flexible c/w lug conductor section	min	mm ²	4
		min	mm² mm²	1
	Elevible with inculated anode lug conductor acction	max	11111	4
	Flexible with insulated spade lug conductor section	min	mm²	1
		min	mm²	4
Dower terminal protect	tion opporting to IEC/EN COE20	max	11111	IP20 when wired
Auxiliary contact chara	tion according to IEC/EN 60529			IP20 when wired
Type of contact				1 NO
Thermal current Ith			А	10
IEC/EN 60947-5-1 des	signation		~	A600 - P600
Operational current AC			А	32
	• •		A	32
Operating current AC1	5	2201/	٨	2
		230V 400V	A A	3 1.9
		400V 500V	A	1.9
Operating ourrept DC1	2	500 v	A	1.4
Operating current DC1	2	110V	٨	E 7
Operating ourrest DC1	2	1100	A	5.7
Operating current DC1	3	2414	٨	F 7
		24V	A	5.7
		48V 60V	A	2.9
		60 V	A	2.3 Screw / DIN rail
		110V	А	35mm
		125V	А	0.6
		220V	A	0.2
		600V	A	1.2
Ambient conditions		0001	~	1.2
Temperature				
	Operating temperature			
	- 1 -	min	°C	-50
		max	°Č	70
	Storage temperature			
		min	°C	-60
		max	°C	80
				3000
Max altitude			m	3000
Max altitude Operating position			m	3000
Max altitude Operating position		normal	m	
		normal allowable	m	Vertical plan
		normal allowable	m	

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400VAC, INO AUXILIARY CONTACT

Operations Mechanical life			Cycles	20000000
Electrical life			Cycles	1600000
Safety related data			Cycles	1000000
	0d according to EN/ISO 13489-1			
		rated load	Cicli	1600000
		mechanical load	Cicli	20000000
Mirror contats accordi	ng to IEC/EN 609474-4-1	meenamearidad	Oldi	yes
EMC compatibility				yes
AC coil operating				yes
AC operating voltage				
re operating relage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	plott up	min	%Us	0.8
		max	%Us	1.1
	drop-out	Пах	/000	
		min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz	Пах	/000	0.00
	pick-up			
	plott dp	min	%Us	0.85
		max	%Us	1.1
	drop-out		,	
		min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz		,	0.00
	pick-up			
	Pierc ap	min	%Us	0.8
		max	%Us	1.1
	drop-out		,	
		min	%Us	0.2
		max	%Us	0.55
AC operating voltage				
1 0 0	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz	3		
		in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz	3		
	•	in-rush	VA	75
		holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
Max cycles frequency				
Mechanical operations			Cycles/h	3600
Operating times				
Average time for Us c	ontrol			
0	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
			-	
	Openina NO			
	Opening NO	min	ms	10

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min

ms

14

Closing NC

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	min me		
	max m	s 28	
Opening NC			
	min me		
	max m	s 18	
UL technical data			
Full-load current (FLA) for three-phase AC motor			
at 4	80V A	14	
at 6	00V A	17	
Yielded mechanical performance			
for single-phase AC motor			
at 110/1.	20V hp	o 1	
at 2	30V hp) 3	
for three-phase AC motor			
at 200/2	08V hp	o 5	
at 220/2			
at 460/4			
at 575/6	•		
Contact rating of auxiliary contacts according to UL	<u></u>) - P600
General USE		AUU	000
Contactor		00	
AC cur	rrent A	32	
Other features			
Pollution degree		3	
Dimensions			
Dimensions	80.7 (3.18")		

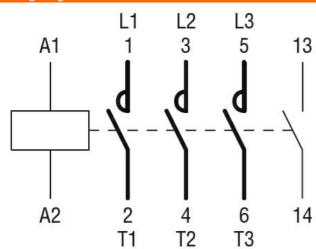
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Wiring diagrams



Certifications and compliance

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	

ETIM 6 classification

EC000066 - Power contactor, AC switching