

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 18A, DC COIL, 24VDC, **1NO AUXILIARY CONTACT**



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		Α	32
Operating current			
	Operational current AC1 (≤40°C)	Α	32
	Operational current AC3 (≤440V ≤55°C)	Α	18
	Operational current AC4 (400V)	Α	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)	Α	200
Protection fuse	,		
	gG (IEC)	Α	32
	aM (IEC)	Α	20
Making capacity (RMS value)	, ,	Α	180
Breaking capacity at voltage			
	Breaking capacity 440V	Α	144
	Breaking capacity 500V	Α	120
	Breaking capacity 690V	Α	94
Resistance per pole (average value)	<u> </u>	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
		Nm	1.8
	max		
	min	lbft	1.1



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		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
max number of wires	simultaneously connectable		nr.	2
Conductor section				_
Conductor Section	AWG			
	AWG			10
		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			
	Troductor with modifical operatoring confidences continu	min	mm²	1
			mm²	4
D (max	ШШ	
	ction according to IEC/EN 60529			IP20 when wired
Auxiliary contact char	acteristics			
Type of contact				1 NO
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - P600
Operational current A			Α	32
Operating current AC				
oporating carrone re		230V	Α	3
		400V	A	1.9
		500V	Α	1.4
Operating current DC	12			
		110V	Α	5.7
Operating current DC	213			
		24V	Α	5.7
		48V	Α	2.9
		60V	Α	2.3
			, ,	Screw / DIN rail
		110V	Α	35mm
		405\/	٨	
		125V	A	0.6
		220V	Α	0.2
		600V	Α	1.2
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			<u> </u>
	C.C. ago tomporatoro	min	°C	-60
			°C	80
Marrate's 1:		max		
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		±30°
Mountie ~				Screw / DIN rail
Mounting				35mm
Weight			g	0.492
			<u> </u>	



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Operations					
Mechanical life				Cycles	20000000
Electrical life				Cycles	1600000
Safety related data					
Performance level B10	od according to EN	N/ISO 13489-1			
			rated load	Cicli	1600000
			mechanical load	Cicli	20000000
Mirror contats according	ng to IEC/EN 6094	174-4-1			yes
EMC compatibility					yes
DC coil operating					
DC rated control voltage	je				
			min	V	6
DC operating voltage					
	pick-up				
			min	%Us	0.7
			max	%Us	1.25
	drop-out			0/11	0.4
			min	%Us	0.1
Averes = !! · · · ·	- <00°C		max	%Us	0.40
Average coil consuption	on ≤20°C			14/	F 4
			in-rush	W	5.4
May avalos fraguesav			holding	W	5.4
Max cycles frequency				Cycles/b	2600
Mechanical operations Operating times				Cycles/h	3600
Average time for Us co	ontrol				
Average unie ioi os co	in AC				
	111 / 10	Closing NC			
		Olooling 140	min	ms	14
			max	ms	28
		Opening NC	max	1110	20
		5 p s 9	min	ms	7
			max	ms	18
	in DC				
		Closing NO			
		Ŭ	min	ms	54
			max	ms	66
		Opening NO			
			min	ms	14
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase A	C motor			
			at 480V	Α	14
			at 600V	Α	17
Yielded mechanical pe					
	for single-phase	AC motor			
			at 110/120V	hp	1
			at 230V	hp	3
	for three-phase	AC motor		_	_
			at 200/208V	hp	5
			. ==	-	_
			at 220/230V	hp	5
			at 220/230V at 460/480V at 575/600V	hp hp hp	5 10 15

ENERGY AND AUTOMATION

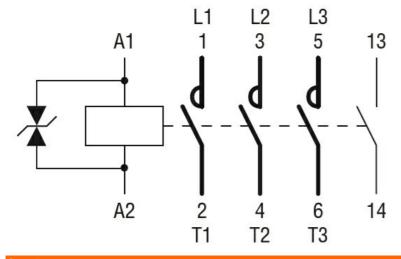
Dimensions

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Contact rating of auxiliary contacts according to UL		A600 - P600	
General USE			
Contactor			
	AC current	Α	32
Other features			
Pollution degree			3

6.2 (0.24") (0.43") (0.43") (0.43") (3.88") (3.88") (3.88") (1.38") (1.38") (3.20")

Wiring diagrams



(0.57")

Certifications and compliance

Certifications



BF1810D024

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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	
	CCC
	cULus
	EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching