

TŘÍPÓLOVÝ STYKAČ, JMENOVITÝ PROUD IE (AC3)=18A, CÍVKA 24VAC, 1Z POMOCNÝ KONTAKT



Product designation			Power contactor
Product type designation			BF18
Contact characteristics		NI.	•
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	32
Operational current le			
	AC-1 (≤40°C)	Α	32
	AC-1 (≤55°C)	Α	26
	AC-1 (≤70°C)	Α	23
	AC-3 (≤440V ≤55°C)	Α	18
	AC-4 (400V)	Α	8.5
Rated operational power AC-3 (T≤55°C)			
	230V	kW	4
	400V	kW	7.5
	415V	kW	9
	440V	kW	9
	500V	kW	10
	690V	kW	10
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 ≤ 1ms with 1 poles in series			
	≤24V	Α	17
	48V	Α	15
	75V	Α	15
	110V	Α	6
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	20
	48V	Α	20
	75V	Α	20
	110V	Α	13
	220V	Α	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
·	≤24V	Α	22
	48V	Α	22
	75V	Α	20
	110V	Α	16
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	220V	Α	11
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	22
	48V	Α	22
	75V	Α	20
	110V	Α	18
	220V	Α	13
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
·	≤24V	Α	12
	48V	Α	11
	75V	Α	11
	110V	Α	2
	220V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
The max current to in 500-500 with E/N = 10m3 with 2 poics in 3cmc3	≤24V	Α	15
	48V	A	
	48 V 75 V		13
		A	13
	110V	A	8
150	220V	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	-0.01		4.0
	≤24V	A	18
	48V	Α	18
	75V	Α	16
	110V	Α	12
	220V	Α	6
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	18
	48V	Α	18
	75V	Α	16
	110V	Α	13
	220V	Α	8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	200
Protection fuse			
	gG (IEC)	Α	32
	aM (IEC)	Α	20
Making capacity (RMS value)	, ,	Α	180
Breaking capacity at voltage			
	440V	Α	144
	500V	A	120
	690V	A	94
Resistance per note (average value)	090 v	mΩ	2.5
Resistance per pole (average value)		11177	۷.ن
Power dissipation per pole (average value)	141	107	2.0
	Ith	W	2.6
Title de la constant	AC-3	W	0.8
Tightening torque for terminals			4.5
	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
	max	Ibin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8



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		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			4.0
	Flavible vyla han ann dantan an ation	max		10
	Flexible w/o lug conductor section	min	mm²	1
		max	mm²	1 6
	Flexible c/w lug conductor section	IIIax	111111	0
	r lexible 6/w lug conductor section	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section			<u> </u>
		min	mm²	1
		max	mm²	4
Dower terminal protect	ation according to IEC/EN 60520			IP20 when
Power terminal protec	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	364
Conductor section			<u> </u>	
	AWG/kcmil conductor section			
		max		10
Auxiliary contact char	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - P600
Operating current AC	15			
		230V	Α	3
				1.0
		400V	Α	1.9
			A A	1.4
Operating current DC	12	400V 500V	Α	1.4
		400V		
Operating current DC		400V 500V 110V	A A	5.7
		400V 500V 110V 24V	A A	1.45.75.7
		400V 500V 110V 24V 48V	A A A	5.7 5.7 2.9
		400V 500V 110V 24V 48V 60V	A A A A	5.7 5.7 2.9 2.3
		400V 500V 110V 24V 48V 60V 110V	A A A A A	5.7 5.7 2.9 2.3 1.25
		400V 500V 110V 24V 48V 60V 110V 125V	A A A A A	1.4 5.7 5.7 2.9 2.3 1.25 1.1
		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Operating current DC		400V 500V 110V 24V 48V 60V 110V 125V	A A A A A	1.4 5.7 5.7 2.9 2.3 1.25 1.1
Operating current DC		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DC Operations Mechanical life		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DC Operations Mechanical life Electrical life		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DC Operations Mechanical life Electrical life Safety related data	13	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DC Operations Mechanical life Electrical life Safety related data		400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles cycles	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DC Operations Mechanical life Electrical life Safety related data	Od according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1600000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	Od according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1600000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	0d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1600000 1600000 20000000
Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1 Mirror contats accord	0d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A Cycles cycles	1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1600000 1600000 20000000 yes



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Rated AC voltage at 5	50/60Hz			V	24
AC operating voltage					
	of 50/60Hz coil powered a				
	рі	ck-up	min	%Us	80
			min max	%Us	110
	dr	op-out	IIIax	/003	110
	ui	op out	min	%Us	20
			max	%Us	55
	of 50/60Hz coil powered a	at 60Hz			
		ck-up			
			min	%Us	85
			max	%Us	110
	dr	op-out			
			min	%Us	20
			max	%Us	55
AC average coil cons	•				
	of 50/60Hz coil powered a	at 50Hz	_		
			in-rush	VA	75
	(= 0 /0 0 L L L L L L L L L L L L L L L L		holding	VA	9
	of 50/60Hz coil powered a	at 60Hz	*	1/4	70
			in-rush	VA	70
	of COLIT and powered at CO	OLI-	holding	VA	6.5
	of 60Hz coil powered at 60	UHZ	ماميريس ميا	VA	75
			in-rush		
Dissination at holding	<20°C 50H7		holding	VA	9
Dissipation at holding Max cycles frequency Mechanical operation			holding	VA W	9 2.5
Max cycles frequency Mechanical operation			holding	VA	9 2.5
Max cycles frequency Mechanical operation Operating times			holding	VA W	9 2.5
Max cycles frequency Mechanical operation Operating times			holding	VA W	9 2.5
Max cycles frequency Mechanical operation Operating times	ontrol in AC	losing NO	holding	VA W	9 2.5
Max cycles frequency Mechanical operation Operating times	ontrol in AC	losing NO	holding	VA W	9 2.5
Max cycles frequency Mechanical operation Operating times	ontrol in AC Ci	-	holding	VA W cycles/h	9 2.5 3600
Max cycles frequency Mechanical operation Operating times	ontrol in AC Ci	losing NO pening NO	holding	VA W cycles/h	9 2.5 3600 8 24
Max cycles frequency Mechanical operation Operating times	ontrol in AC Ci	-	holding	VA W cycles/h ms ms	9 2.5 3600 8 24 10
Max cycles frequency Mechanical operation Operating times	ontrol in AC Ci	pening NO	holding min max	VA W cycles/h ms ms	9 2.5 3600 8 24
Max cycles frequency Mechanical operation Operating times	ontrol in AC Ci	-	min max min max	VA W cycles/h ms ms	9 2.5 3600 8 24 10 20
Max cycles frequency Mechanical operation Operating times	ontrol in AC Ci	pening NO	min max min max	VA W cycles/h ms ms ms ms	9 2.5 3600 8 24 10 20
Max cycles frequency Mechanical operation Operating times	ontrol in AC C	pening NO losing NC	min max min max	VA W cycles/h ms ms	9 2.5 3600 8 24 10 20
Max cycles frequency Mechanical operation Operating times	ontrol in AC C	pening NO	min max min max min max	VA W cycles/h ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28
Max cycles frequency Mechanical operation Operating times	ontrol in AC C	pening NO losing NC	min max min max min max min max	ws ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28
Max cycles frequency Mechanical operation Operating times Average time for Us o	ontrol in AC C	pening NO losing NC	min max min max min max	VA W cycles/h ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28
Max cycles frequency Mechanical operation Operating times Average time for Us o	ontrol in AC C	pening NO losing NC	min max min max min max min max	ws ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28
Max cycles frequency Mechanical operation Operating times Average time for Us o	ontrol in AC C	pening NO losing NC	min max min max min max min max	W cycles/h ms ms ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28 7 18
Max cycles frequency Mechanical operation Operating times Average time for Us o	ontrol in AC C	pening NO losing NC	min max min max min max at 480V	W cycles/h ms ms ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28 7 18
Max cycles frequency Mechanical operation Operating times Average time for Us of	ontrol in AC C C C O C O for three-phase AC motor	pening NO losing NC	min max min max min max min max	W cycles/h ms ms ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28 7 18
Max cycles frequency Mechanical operation Operating times Average time for Us of	ontrol in AC Ci O Ci O or on three-phase AC motor erformance	pening NO losing NC pening NC	min max min max min max at 480V	W cycles/h ms ms ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28 7 18
Max cycles frequency Mechanical operation Operating times Average time for Us of	ontrol in AC C C C O C O for three-phase AC motor	pening NO losing NC pening NC	min max min max min max at 480V at 600V	W cycles/h ms ms ms ms ms ms ms	9 2.5 3600 8 24 10 20 14 28 7 18
Max cycles frequency Mechanical operation Operating times Average time for Us o	ontrol in AC Ci O Ci O or on three-phase AC motor erformance	pening NO losing NC pening NC	min max min max min max at 480V	W cycles/h ms ms ms ms ms ms A A	9 2.5 3600 8 24 10 20 14 28 7 18
Max cycles frequency Mechanical operation Operating times Average time for Us of	ontrol in AC Ci O Ci O or on three-phase AC motor erformance	pening NO losing NC pening NC	min max min max min max at 480V at 600V	W cycles/h ms ms ms ms ms ms A A HP	9 2.5 3600 8 24 10 20 14 28 7 18

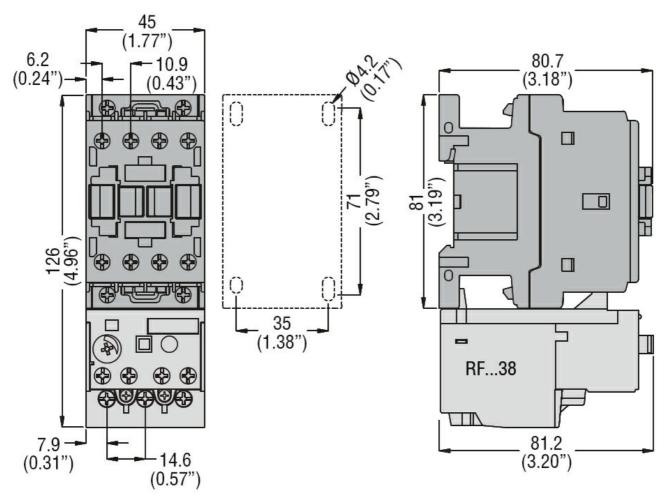




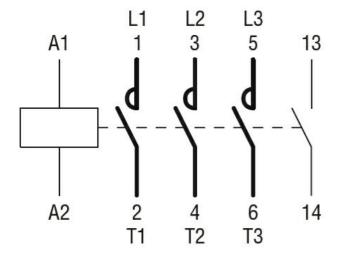
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		220/230V	HP	5
		460/480V	HP	10
		575/600V	HP	15
General USE				
	Contactor			
		AC current	Α	32
	Auxiliary contacts			
	·	AC voltage	V	600
		AC current	Α	10
		DC voltage	V	250
		DC current	Α	1
Short-circuit protect	ion fuse, 600V			
	High fault			
	•	Short circuit current	kA	100
		Fuse rating	Α	60
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	80
Contact rating of au	xiliary contacts according to UL			A600 - P600
Ambient conditions				
Temperature				
•	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Prote	ction			
Pollution degree				3
Dimensions				





Wiring diagrams



Certifications and compliance

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

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cULus		
FAC		

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching