

TŘÍPÓLOVÝ STYKAČ, JMENOVITÝ PROUD IE (AC3)=18A, CÍVKA 230VAC, 1V POMOCNÝ



Product designation Product type designation			Power contactor BF18
Contact characteristics			Bi 10
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	A	_
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	A	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
Till to die to en a forte estado	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	A1110 #			
	AWG/Kcmil			4.0
	Florible/e long and doctor and the	max		10
	Flexible w/o lug conductor section	min	mm²	1
		max	mm²	1 6
	Flexible c/w lug conductor section	IIIax	111111	U
	Tickible 6/Wildg 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 protec	otion according to IFC/FN 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	358
Conductor section			9	000
Conductor Cochon	AWG/kcmil conductor section			
	, the Gridenia conductor cocaton	max		10
Auxiliary contact char	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - P600
Operating current AC	15			
operating carrent / to	.0			
operating carrent / to		230V	Α	3
operating carrons re		400V	A A	3 1.9
Operating current DC		400V 500V	Α	1.9 1.4
Operating current DC	12	400V	Α	1.9
	12	400V 500V 110V	A A	1.9 1.4 5.7
Operating current DC	12	400V 500V 110V 24V	A A A	1.9 1.4 5.7 5.7
Operating current DC	12	400V 500V 110V 24V 48V	A A A	1.9 1.4 5.7 5.7 2.9
Operating current DC	12	400V 500V 110V 24V 48V 60V	A A A A	1.9 1.4 5.7 5.7 2.9 2.3
Operating current DC	12	400V 500V 110V 24V 48V 60V 110V	A A A A A	1.9 1.4 5.7 5.7 2.9 2.3 1.25
Operating current DC	12	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
Operating current DC	12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Operating current DC Operating current DC	12	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
Operating current DC Operating current DC Operating current DC	12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DC Operating current DC Operations Mechanical life	12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DC Operating current DC Operations Mechanical life Electrical life	12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DC 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 A Cycles	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	12	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles cycles	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	12 13 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1600000
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	12 13 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1600000 1600000 200000000
Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	12 13 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1600000
Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	12 13 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 1600000 1600000 200000000 yes



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Rated AC voltage at 5	60/60Hz			V	230
AC operating voltage					
	of 50/60Hz coil power	ed at 50Hz			
		pick-up			
			min	%Us	80
			max	%Us	110
		drop-out			
			min	%Us	20
	-		max	%Us	55
	of 50/60Hz coil power				
		pick-up			
			min	%Us	85
			max	%Us	110
		drop-out			
			min	%Us	20
			max	%Us	55
AC average coil consu					
	of 50/60Hz coil power	ed at 50Hz	_		
			in-rush	VA	75
			holding	VA	9
	of 50/60Hz coil power	ed at 60Hz	_		
			in-rush	VA	70
			holding	VA	6.5
	of 60Hz coil powered	at 60Hz			
			in-rush	VA	75
			holding	VA	9
Dissipation at holding				W	2.5
Max cycles frequency					
					0000
Mechanical operation				cycles/h	3600
Operating times				cycles/h	3600
Mechanical operation Operating times Average time for Us of				cycles/h	3600
Operating times	ontrol in AC	Olavia NO		cycles/h	3600
Operating times		Closing NO			
Operating times		Closing NO		ms	8
Operating times		-	min max		
Operating times		Closing NO Opening NO	max	ms ms	8 24
Operating times		-	max min	ms ms	8 24 10
Operating times		Opening NO	max	ms ms	8 24
Operating times		-	max min max	ms ms ms	8 24 10 20
Operating times		Opening NO	max min max min	ms ms ms ms	8 24 10 20
Operating times		Opening NO Closing NC	max min max	ms ms ms	8 24 10 20
Operating times		Opening NO	max min max min max	ms ms ms ms	8 24 10 20 14 28
Operating times		Opening NO Closing NC	max min max min max min	ms ms ms ms	8 24 10 20 14 28
Operating times Average time for Us o		Opening NO Closing NC	max min max min max	ms ms ms ms	8 24 10 20 14 28
Operating times Average time for Us of	in AC	Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms	8 24 10 20 14 28
Operating times Average time for Us of		Opening NO Closing NC Opening NC	max min max min max min max	ms ms ms ms ms	8 24 10 20 14 28 7 18
Operating times Average time for Us of	in AC	Opening NO Closing NC Opening NC	max min max min max min max at 480V	ms ms ms ms ms	8 24 10 20 14 28 7 18
Operating times Average time for Us of UL technical data Full-load current (FLA)	in AC) for three-phase AC mo	Opening NO Closing NC Opening NC	max min max min max min max	ms ms ms ms ms	8 24 10 20 14 28 7 18
Operating times Average time for Us of UL technical data Full-load current (FLA)	in AC) for three-phase AC mo	Opening NO Closing NC Opening NC	max min max min max min max at 480V	ms ms ms ms ms	8 24 10 20 14 28 7 18
Operating times Average time for Us of UL technical data Full-load current (FLA)	in AC) for three-phase AC mo	Opening NO Closing NC Opening NC	max min max min max min max at 480V at 600V	ms ms ms ms ms as	8 24 10 20 14 28 7 18
Operating times Average time for Us of UL technical data Full-load current (FLA)	in AC) for three-phase AC mo	Opening NO Closing NC Opening NC	max min max min max min max at 480V at 600V	ms ms ms ms ms A A	8 24 10 20 14 28 7 18
Operating times Average time for Us of	in AC) for three-phase AC moerformance for single-phase AC m	Opening NO Closing NC Opening NC tor	max min max min max min max at 480V at 600V	ms ms ms ms ms as	8 24 10 20 14 28 7 18
Operating times Average time for Us of UL technical data Full-load current (FLA)	in AC) for three-phase AC mo	Opening NO Closing NC Opening NC tor	max min max min max min max at 480V at 600V 110/120V 230V	ms ms ms ms ms ms	8 24 10 20 14 28 7 18
Operating times Average time for Us of UL technical data Full-load current (FLA	in AC) for three-phase AC moerformance for single-phase AC m	Opening NO Closing NC Opening NC tor	max min max min max min max at 480V at 600V	ms ms ms ms ms A A	8 24 10 20 14 28 7 18

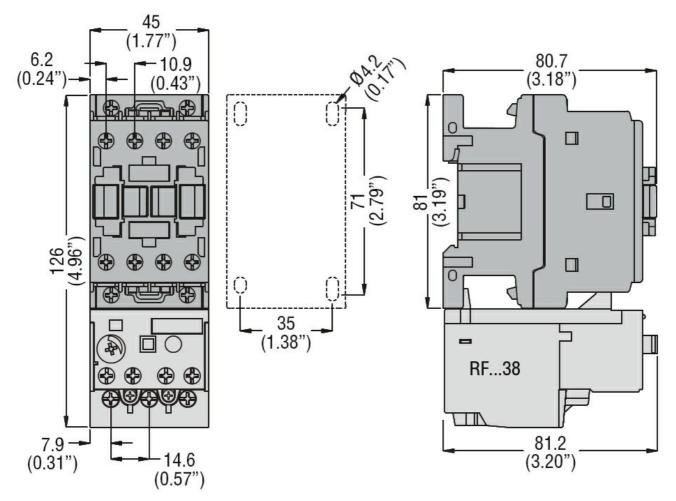




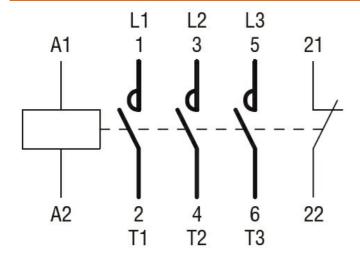
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		220/230V	HP	5
		460/480V	HP	10
		575/600V	HP	15
General USE				
	Contactor			
		AC current	Α	32
	Auxiliary contacts			
		AC voltage	V	600
		AC current	Α	10
		DC voltage	V	250
		DC current	Α	1
Short-circuit protect	ion fuse, 600V			
	High fault			
		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



BF1801A230

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CCC			
cULus			
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching