

TŘÍPÓLOVÝ STYKAČ, JMENOVITÝ PROUD IE (AC3)=9A, CÍVKA 24VAC, 1V POMOCNÝ KONTAKT



Product designation			Power contactor
Product type designation			BF09
Contact characteristics		N I	2
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		1.1-	0.5
	min	Hz	25
IFO Commention of free painth annual assessment life	max	Hz	400
IEC Conventional free air thermal current Ith		Α	25
Operational current le	AO 4 (440°O)	Δ.	0.5
	AC-1 (≤40°C)	A	25
	AC-1 (≤55°C)	A	20
	AC-1 (≤70°C)	A	18
	AC-3 (≤440V ≤55°C)	A	9
D. I. J	AC-4 (400V)	Α	4.9
Rated operational power AC-3 (T≤55°C)	0001/		2.2
	230V	kW	2.2
	400V	kW	4.2
	415V	kW	4.5
	440V	kW	4.8
	500V	kW	5.5
D-t1	690V	kW	7.5
Rated operational power AC-1 (T≤40°C)	0001	1-107	٥.5
	230V	kW	9.5
	400V	kW	16
	500V 690V	kW kW	21 27
IEC may current to in DC1 with L/D < 1 mg with 1 notes in paries	090 V	KVV	
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	<0.417	۸	4.5
	≤24V 48V	A	15
	46 V 75 V	A A	13 12
	110V	A	6
	220V	A	0
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	220 V		
120 max current le in DOT with E/N 3 mis with 2 poles in series	≤24V	۸	18
	≤24∨ 48V	A A	18
	75V	A	17
	110V	A	12
	220V	A	1
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	220 V		<u> </u>
TEO THAN OUT OUT DO I WILL LITE IT IN WILL O POICS IT SCHOOL	≤24V	Α	20
	48V	A	20
	75V	A	20
	110V	A	15
	1100	7.	.0



TŘÍPÓLOVÝ STYKAČ, JMENOVITÝ PROUD IE (AC3)=9A, CÍVKA 24VAC, 1V POMOCNÝ KONTAKT

	220V	Α	10
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	20
	48V	Α	20
	75V	Α	20
	110V	Α	16
	220V	A	12
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	220 V		12
TEC max current le in DO3-DO3 with E/R = 13ms with 1 poles in series	~ 241/	۸	40
	≤24V	A	10
	48V	A	9
	75V	Α	8
	110V	Α	2
	220V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	13
	48V	Α	11
	75V	Α	10
	110V	Α	7
	220V	Α	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	2201	- , ,	
TEO Max current le in 200-200 with E/N = 15ms with 5 poles in series	≤24V	Α	15
	48V	A	15
	75V	Α	13
	110V	Α	11
	220V	Α	6
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	15
	48V	Α	15
	75V	Α	15
	110V	Α	12
	220V	Α	7
Short-time allowable current for 10s (IEC/EN60947-1)		Α	150
Protection fuse			
Totalian ruda	gG (IEC)	Α	25
	aM (IEC)	A	10
Making apposity (DMC value)	aivi (IEC)		
Making capacity (RMS value)		Α	90
Breaking capacity at voltage		_	
	440V	Α	72
	500V	Α	72
	690V	Α	71
Resistance per pole (average value)		$m\Omega$	2.5
Power dissipation per pole (average value)			_
	Ith	W	1.6
	AC-3	W	0.2
Tightening torque for terminals			
O O 1	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
Tightening towns for call to write 1	max	lbin	1.5
Tightening torque for coil terminal			2.2
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8



TŘÍPÓLOVÝ STYKAČ, JMENOVITÝ PROUD IE (AC3)=9A, CÍVKA 24VAC, 1V POMOCNÝ

		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section	AMIO (14)			
	AWG/Kcmil			4.0
	Florible/s los conductos continu	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 prote	otion appording to IFC/FN 60520			IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
			~	35mm
Weight Conductor section			g	360
Conductor section	AWG/kcmil conductor section			
	AVVG/KCITIII COTIQUCTOT Section	max		10
Auxiliary contact char	acteristics	IIIax		10
Thermal current Ith	400000		Α	10
IEC/EN 60947-5-1 de	esignation			A600 - P600
IEC/EN 60947-5-1 de Operating current AC	-			A600 - P600
IEC/EN 60947-5-1 de Operating current AC	-	230V	A	A600 - P600 3
	-	230V 400V	A A	
	-			3
	15	400V	Α	3 1.9
Operating current AC	15	400V	Α	3 1.9
Operating current AC	15	400V 500V 110V	A A	3 1.9 1.4 5.7
Operating current AC	15	400V 500V 110V 24V	A A A	3 1.9 1.4 5.7
Operating current AC	15	400V 500V 110V 24V 48V	A A A A	3 1.9 1.4 5.7 5.7 2.9
Operating current AC	15	400V 500V 110V 24V 48V 60V	A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3
Operating current AC	15	400V 500V 110V 24V 48V 60V 110V	A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25
Operating current AC	15	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
Operating current AC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55
Operating current AC Operating current DC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1
Operating current AC Operating current DC Operating current DC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current AC Operating current DC Operating current DC Operating current DC Operating current DC Mechanical life	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	212	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A A Cycles	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	15	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A Cycles cycles	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data	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	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 20000000
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	115 112 113 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	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 2000000 2000000
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level BC Mirror contats accord	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	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 20000000 20000000 20000000 20000000 yes
Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	115 112 113 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	3 1.9 1.4 5.7 5.7 2.9 2.3 1.25 1.1 0.55 0.2 2000000 2000000



TŘÍPÓLOVÝ STYKAČ, JMENOVITÝ PROUD IE (AC3)=9A, CÍVKA 24VAC, 1V POMOCNÝ KONTAKT

Rated AC voltage at				V	24
C operating voltag					
	of 50/60Hz coil p				
		pick-up	min	0/116	9.0
			min max	%Us %Us	80 110
		drop-out	Шах	/ ₀ US	110
		diop out	min	%Us	20
			max	%Us	55
	of 50/60Hz coil p	owered at 60Hz	max	7000	
	o. oo, oo oo p	pick-up			
		provide	min	%Us	85
			max	%Us	110
		drop-out			
		·	min	%Us	20
			max	%Us	55
C average coil cor	sumption at 20°C				
	of 50/60Hz coil p	owered at 50Hz			
			in-rush	VA	75
			holding	VA	9
	of 50/60Hz coil p	owered at 60Hz			
			in-rush	VA	70
			holding	VA	6.5
	of 60Hz coil pow	ered at 60Hz			
			in-rush	VA	75
	10000 5011		holding	VA	9
Dissipation at holdin	g ≤20°C 50Hz			W	2.5
OC coil operating	anting <00°C				
Average coil consur	ription ≥20 C		in ruch	W	5.4
			in-rush holding	W	5.4 2.4
				V V	2.4
May cycles frequenc	N/		riolaling		
				cycles/h	3600
/lechanical operatio				cycles/h	3600
Mechanical operatio Operating times	n			cycles/h	3600
Mechanical operatio Operating times	control			cycles/h	3600
Mechanical operatio Operating times	n	Closing NO		cycles/h	3600
Mechanical operatio Operating times	control	Closing NO			
Mechanical operatio Operating times	control	Closing NO		cycles/h ms ms	3600 8 24
Mechanical operatio Operating times	control	Closing NO Opening NO	min	ms	8
Mechanical operatio Operating times	control	•	min	ms	8
Mechanical operatio Operating times	control	•	min max	ms ms	8 24
Mechanical operatio Operating times	control	•	min max min	ms ms	8 24 10
Mechanical operatio Operating times	control	Opening NO	min max min	ms ms	8 24 10 20
Mechanical operatio Operating times	control	Opening NO Closing NC	min max min max	ms ms ms	8 24 10 20
Mechanical operatio Operating times	control	Opening NO	min max min max min max	ms ms ms ms	8 24 10 20 14 28
Mechanical operatio Operating times	control	Opening NO Closing NC	min max min max min	ms ms ms ms	8 24 10 20 14 28
Mechanical operation operation operation operating times overage time for Us	control	Opening NO Closing NC	min max min max min max	ms ms ms ms	8 24 10 20 14 28
Mechanical operation operation operating times overage time for Us	control in AC	Opening NO Closing NC Opening NC	min max min max min max min	ms ms ms ms ms	8 24 10 20 14 28
Mechanical operation Degrating times Average time for Us JL technical data	control	Opening NO Closing NC Opening NC	min max min max min max min max	ms ms ms ms ms	8 24 10 20 14 28 7 18
Max cycles frequence Mechanical operation Deprating times Average time for Us JL technical data Full-load current (FL	control in AC	Opening NO Closing NC Opening NC	min max min max min max min	ms ms ms ms ms	8 24 10 20 14 28

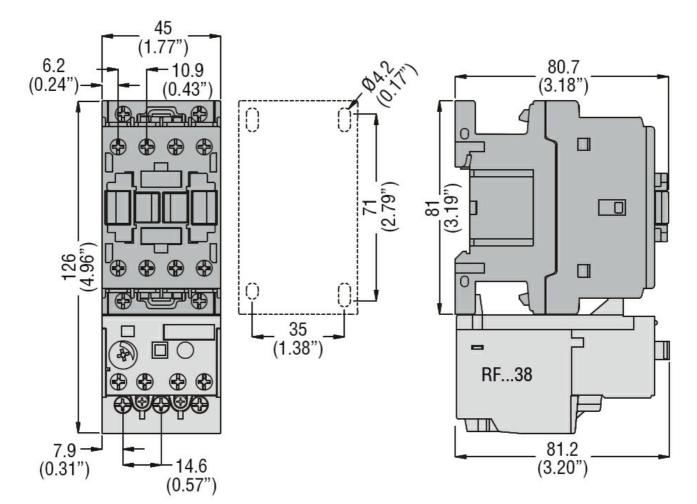




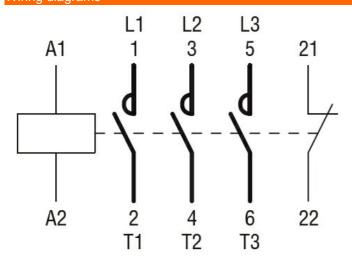
TŘÍPÓLOVÝ STYKAČ, JMENOVITÝ PROUD IE (AC3)=9A, CÍVKA 24VAC, 1V POMOCNÝ

		110/120V	HP	0.75
		230V	HP	2
	for three-phase AC motor			
	•	200/208V	HP	3
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	7.5
General USE		3.0,000.		
30110101 GGE	Contactor			
	Contactor	AC current	Α	25
	Auxiliary contacts	AO current		
	Auxiliary contacts	A.C. voltago	17	600
		AC voltage	V	600
		AC current	A	10
		DC voltage	V	250
		DC current	Α	
Short-circuit protectio				
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	60
Contact rating of auxil	iary contacts according to UL	<u> </u>		A600 - P600
Ambient conditions	ian'y commission describing to the			
Temperature				
Tomporataro	Operating temperature			
	Operating temperature	min	°C	-50
			°C	70
	Ctorogo tomporatura	max	<u> </u>	10
	Storage temperature		۰.	00
		min	°C	-60
* * * * * * * * * * * * * * * * * * *		max	°C	80
Max altitude			m	3000
Resistance & Protecti	on			
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



BF0901A024

TŘÍPÓLOVÝ STYKAČ, JMENOVITÝ PROUD IE (AC3)=9A, CÍVKA 24VAC, 1V POMOCNÝ KONTAKT

CCC		
cULus		
EAC		

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching