



Product designation Product type designation			Power contactor BGF09
Contact characteristics			
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	20
Operational current le			
	AC-1 (≤40°C)	Α	20
	AC-3 (≤440V ≤55°C)	Α	9
	AC-4 (400V)	Α	4
Rated operational power AC-3 (T≤55°C)			
	230V	kW	2.2
	400V	kW	4
	415V	kW	4.3
	440V	kW	4.5
	500V	kW	5
	690V	kW	5
Rated operational power AC-1 (T≤40°C)			
	230V	kW	8
	400V	kW	14
	500V	kW	16
	690V	kW	22
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series		_	
	≤24V	Α	12
	48V	A	10
	75V	A	4
	110V	A	3
IFO	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	10.41.4	•	4.5
	≤24V	A	15
	48V	A	14
	75V	A	9
	110V	A	8
IFC may assemble in DC4 with L/D < 1 me with 2 males in parise	220V	A	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	~2A\	۸	16
	≤24V	A	16
	48V	A	16
	75V	A	10
	110V 220V	A A	10 2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	2201		



	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	Α	10
	220V	Α	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
'	≤24V	Α	7
	48V	Α	6
	75V	Α	2
	110V	Α	_ 1
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
120 max current to in 200 200 with 2112 Tomo with 2 poloc in conce	≤24V	Α	8
	48V	A	8
	75V	A	5
	110V	A	4
	220V	A	
IFC may current to in DC2 DC5 with L/D < 15mg with 2 notes in corios	220 V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	2041 /	^	4.0
	≤24V	A	10
	48V	Α	10
	75V	Α	6
	110V	Α	5
	220V	Α	0.8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	10
	48V	Α	10
	75V	Α	6
	110V	Α	5
	220V	Α	0.8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	Α	10
Making capacity (RMS value)	, ,	Α	92
Breaking capacity at voltage			
	440V	Α	72
	500V	Α	72
	690V	Α	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)		22	
Tower dissipation per pole (average value)	lth	W	4
	AC3	W	0.81
Tightening torque for terminals	7,00	V V	0.01
rigitering torque for terminals	min	Nm	0.8
	min	Nm	0.8 1
	max min	Ibin	0.6
		Ibin	0.6
Tightoning targue for call terminal	max	ווטוו	0.1
Tightening torque for coil terminal		N 1	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.59
	max	lbft	0.74
Max number of wires simultaneously connectable		nr.	2



ENERGY AND AUTOMATION

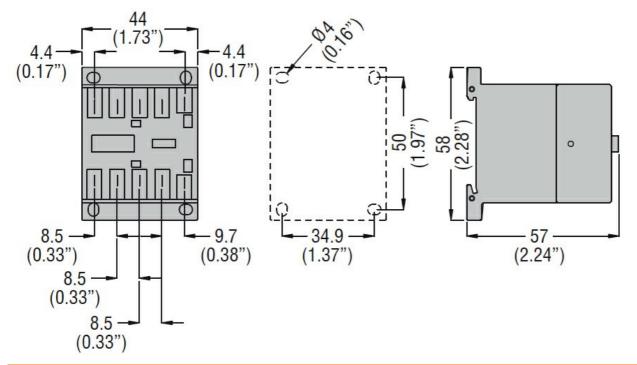
Conductor section				
Conductor Section	Flexible w/o lug conductor section			
	Tickibic w/o lug coriductor section	min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section	max		2.0
	Tiexible of Wing conductor Section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section	max		2.0
	r lexible with insulated space lug conductor section	min	mm²	1.5
		max	mm²	2.5
Power terminal protec	ction according to IEC/EN 60529	max	111111	IP20 when wired
Mechanical features	ction according to IEC/EN 60329			irzo wnen whea
Operating position		normal		Vertical plan
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	224
Auxiliary contact char	acteristics			
Type of contact				1 NC
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - Q600
Operating current AC	-			_
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	:12			
3		110V	Α	2.9
Operating current DC	213			
operaning carrent 2 c		24V	Α	2.9
		48V	A	1.4
		60V	A	1.1
		125V	A	0.3
		220V	A	0.1
		600V	A	0.6
Operations		000 V		0.0
Mechanical life			cycles	20000000
Electrical life			cycles	5000000
Safety related data			Cycles	300000
•	10d according to EN/ISO 13489-1			
renormance level b	Tod according to EN/ISO 13469-1	roted load	ovoloo	E00000
		rated load	cycles	500000
Mirror contate coss		echanical load	cycles	20000000
	ling to IEC/EN 609474-4-1			yes
EMC compatibility				yes
DC coil operating			17	24
DC rated control volta			V	24
DC operating voltage				
	pick-up		0/17	7.5
		min	%Us	75 445
		max	%Us	115
	drop-out		04::	
		min	%Us	10
		max	%Us	25



Average coil consumption ≤20°C in-rush W 3.2 holding W 3.2 Max cycles frequency Mechanical operation cycles/h 3600 Operating times Average time for Us control in AC Closing NO 12 min ms max ms 21 Opening NO min ms 9 18 max ms Closing NC 17 min ms max ms 26 Opening NC 7 min ms ms 17 max in DC Closing NO min ms 18 25 max ms Opening NO 2 min ms max ms 3 Closing NC min ms 3 5 max ms Opening NC min ms 11 17 max ms UL technical data Full-load current (FLA) for three-phase AC motor at 480V Α 7.6 at 600V Α 6.1 Yielded mechanical performance for single-phase AC motor 110/120V HP 0.5 HP 1.5 230V for three-phase AC motor 200/208V HP 2 3 220/230V HP 460/480V HP 5 575/600V HP 5 General USE Contactor AC current 20 Α Short-circuit protection fuse, 600V High fault Short circuit current kΑ 100 Fuse rating Α 30 Fuse class J

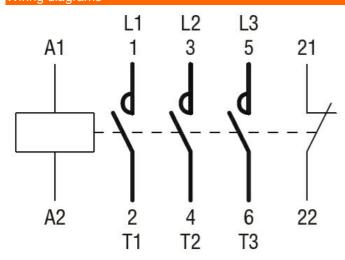


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Standard fault			
	Short circuit current	kA	5
	Fuse rating	Α	30
Contact rating of auxiliary contacts according to UL			A600 - Q600
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	+70
Storage temperature			
	min	°C	-60
	max	°C	+80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3



Wiring diagrams

Dimensions



Certifications and compliance



11BGF0901D024

Stycznik 3 polowy, 9A w AC3, wbudowany zestyk 1NC, 24VDC wersja faston

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Com	pII	an	ce

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 CCCcULus

Certificates

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching