



Product designation			Power contactor
Product type designation			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	Α	10
	75V	Α	4
	110V	Α	3
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
·	≤24V	Α	15
	48V	Α	14
	75V	Α	9
	110V	Α	8
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
•	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	110V	Α	10
	220V	Α	2
IFO	223 \$	- • •	_ _

IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series



	≤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	A	<u>.</u>
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	2201		
120 max current to in 200 200 mar 210 = 10 mo mar 2 poloc in conce	≤24V	Α	8
	48V	A	8
	75V	A	5
	110V	A	4
IFC many augment to in DC2 DC5 with L/D < 45 may with 2 males in acrise	220V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	-0.4V	^	10
	≤24V	A	10
	48V	Α	10
	75V	Α	6
	110V	Α	5
	220V	A	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)			
	lth	W	4
	AC3	W	0.81
Tightening torque for terminals	7.00		
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.6
	max	Ibin	0.7
Tightening torque for coil terminal	HIGA	10111	<u> </u>
ngnioning torque for contentinal	min	Nm	0.8
	min		0.8 1
	max	Nm Ibft	
	min	lbft	0.59
Many annual and a finite and a simulation of the second of	max	lbft	0.74
Max number of wires simultaneously connectable		nr.	2



Conductor section			
	Flexible w/o lug conductor section	2	0.75
	min	mm² mm²	0.75 2.5
	Flexible c/w lug conductor section	111111	2.0
	min	mm²	1.5
	max	mm²	2.5
	Flexible with insulated spade lug conductor section		2.0
	min	mm²	1.5
	max	mm²	2.5
Power terminal protect	ction according to IEC/EN 60529		IP20 when wired
Mechanical features			
Operating position			
1 01	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight		<u> </u>	180
Auxiliary contact chara	acteristics	g	100
Type of contact			1 NO
Thermal current Ith		Α	10
IEC/EN 60947-5-1 de	esignation		A600 - Q600
Operating current AC			A000 - Q000
Operating current AO	230V	Α	3
	400V	A	1.9
	500V	A	1.4
Operating current DC		,,	
opolating outlone 20	110V	Α	2.9
Operating current DC			
operaning carrent 2 c	24V	Α	2.9
	48V	Α	1.4
	60V	Α	1.1
	125V	Α	0.3
	220V	Α	0.1
	600V	Α	0.6
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	500000
Safety related data			
Performance level B1	0d according to EN/ISO 13489-1		
	rated load	cycles	500000
	mechanical load	cycles	20000000
·	ing to IEC/EN 609474-4-1		yes
EMC compatibility			yes
Rated AC voltage at 6	60Hz	V	48
AC coil operating			
AC operating voltage			
	of 60Hz coil powered at 60Hz		
	pick-up		
	min	%Us	75
	max	%Us	115
	drop-out	0/11	00
	min	%Us	20

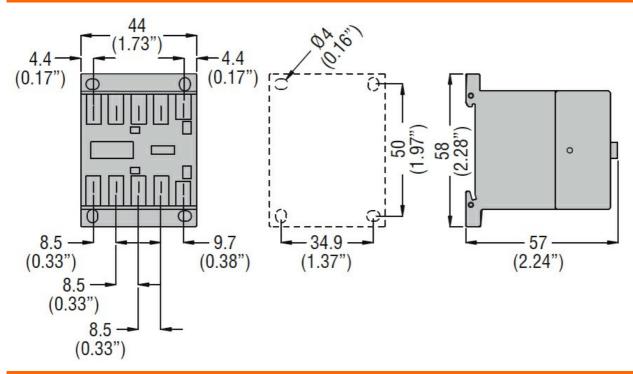


Stycznik 3 polowy, 9A w AC3, wbudowany zestyk 1NO, 48VAC/60Hz wersja faston

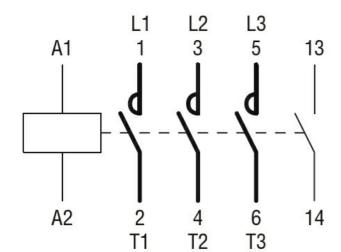
			max	%Us	55
AC average coil con					
	of 50/60Hz coil po	owered at 50Hz	in much	١/٨	20
			in-rush holding	VA VA	30 4
	of 50/60Hz coil po	owered at 60Hz	Holding	V/\	4
	01 00/00112 0011 p	owered at our iz	in-rush	VA	25
			holding	VA	3
	of 60Hz coil power	ered at 60Hz	<u> </u>		
	•		in-rush	VA	30
			holding	VA	4
Dissipation at holding	-			W	0.95
Max cycles frequenc					
Mechanical operation	า			cycles/h	3600
Operating times	4 1				
Average time for Us					
	in AC	Clocing NO			
		Closing NO	min	ms	12
			max	ms	21
		Opening NO	max	0	
		- P	min	ms	9
			max	ms	18
		Closing NC			
			min	ms	17
			max	ms	26
		Opening NC			
			min	ms	7
	DO		max	ms	17
	in DC	Closing NO			
		Closing NO	min	ms	18
			max	ms	25
		Opening NO			
		3 -	min	ms	2
			max	ms	3
		Closing NC			
			min	ms	3
			max	ms	5
		Opening NC			4.4
			min	ms	11
JL technical data			max	ms	17
	A) for three-phase A(C motor			
an load outlott (I L	, 101 till 00 pila00 / (at 480V	Α	7.6
			at 600V	Α	6.1
rielded mechanical	performance				
'	for single-phase	AC motor			
	- •		110/120V	HP	0.5
			230V	HP	1.5
	for three-phase A	C motor			
			200/208V	HP	2
			220/230V	HP	3
			460/480V	HP	5

Stycznik 3 polowy, 9A w AC3, wbudowany zestyk 1NO, 48VAC/60Hz wersja faston

		575/600V	HP	5
General USE				
	Contactor			
		AC current	Α	20
Short-circuit protect	ction fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
	uxiliary contacts according to UL			A600 - Q600
Ambient conditions	S			
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Prote	ection			
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 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching