



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	A	10
	110V	Α	10
	220V	Α	2
IFC may current le in DC1 with L/R < 1ms with 4 notes in series	220 V		

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	Α	· _
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
TEO Max outfork to in 200 200 with ETC = Tomo with 2 poloc in dolloo	≤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 parise	220 V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	<b>-041</b> /	^	40
	≤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)			
Tower dissipation per pere (average value)	Ith	W	4
	AC3	W	0.81
Tightening torque for terminals	7,00	V V	0.01
rightening torque for terminals	min	Nlm	0.8
	min	Nm Nm	0.8 1
	max	Ibin	0.6
	min	Ibin	
Tightoning targue for coil terminal	max	וווווו	0.7
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



Conductor				
Conductor section	Elevible w/e lug conductor costica			
	Flexible w/o lug conductor section		mm²	0.75
		min	mm² mm²	0.75 2.5
	Florible of the conductor acction	max	HIHI	2.5
	Flexible c/w lug conductor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section		111111	2.3
	Flexible with insulated space lug conductor section	min	mm²	1.5
		max	mm²	2.5
Power terminal protec	tion according to IEC/EN 60529	IIIax	111111	IP20 when wired
Mechanical features	tion according to IEC/EN 00329			IF 20 When whea
Operating position				
Operating position		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	224
Auxiliary contact chara	acteristics			
Type of contact				1 NC
Thermal current Ith			Α	10
IEC/EN 60947-5-1 des	signation			A600 - Q600
Operating current AC1	15			_
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC1	12			_
		110V	Α	2.9
Operating current DC1	13			
		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
	n	nechanical load	cycles	20000000
Mirror contats accordi	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
DC coil operating				
DC rated control voltage	ge		V	12
DC operating voltage				
	pick-up			
		min	%Us	75
		max	%Us	115
	drop-out			
		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 co	ontrol			
_	in AC			
	Closing NO			
		min	ms	12
		max	ms	21
	Opening NO			
		min	ms	9
		max	ms	18
	Closing NC			
		min	ms	17
		max	ms	26
	Opening NC	_		
		min	ms	7
		max	ms	17
	in DC			
	Closing NO			4.0
		min	ms	18
	On ania a NO	max	ms	25
	Opening NO			0
		min	ms	2
	Closing NC	max	ms	3
	Closling NC	min	ms	3
		max	ms	5
	Opening NC	IIIdx	1113	3
	Opening No	min	ms	11
		max	ms	17
UL technical data		тах	1110	
	) for three-phase AC motor			
()	, .o. uco pdccccc.	at 480V	Α	7.6
		at 600V	Α	6.1
Yielded mechanical pe	erformance			
	for single-phase AC motor			
	3 1 3 1	110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
	·	200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE				
	Contactor			
		AC current	Α	20
Short-circuit protection	fuse, 600V			
	High fault			

Short circuit current

Fuse rating

Fuse class

kΑ

Α

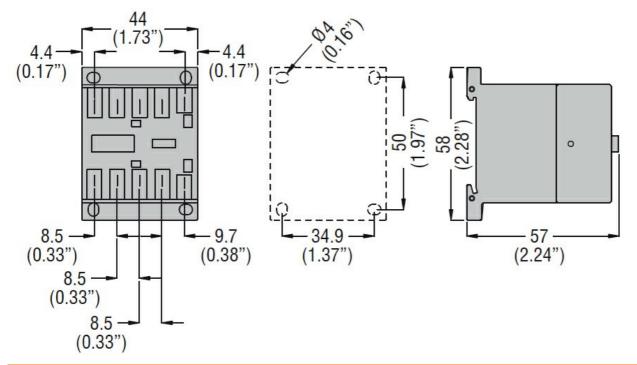
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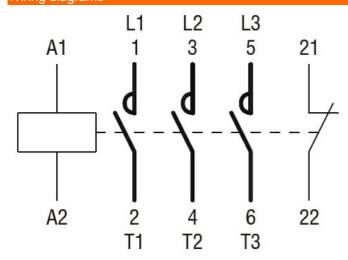
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	-			
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of au	xiliary contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature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



## Wiring diagrams



## Certifications and compliance



## 11BGF0901D012

Stycznik 3 polowy, 9A w AC3, wbudowany zestyk 1NC, 12VDC wersja faston

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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

CCC

CULus

Certificates

ETIM classification

EAC

ETIM 8.0

EC000066 -Power contactor, AC switching