



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	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

Stycznik 3 polowy, 9A w AC3, wbudowany zestyk 1NC, 48VAC/60Hz wersja faston

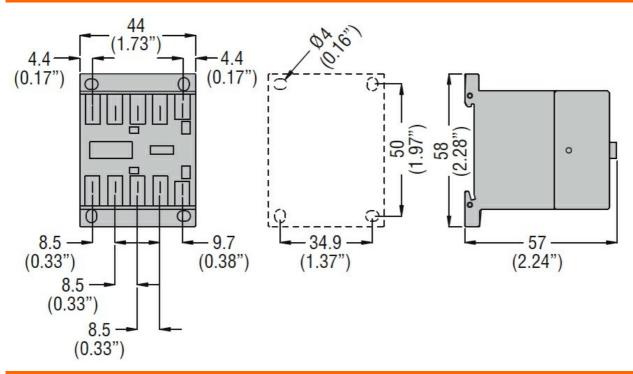
Conductor poetion			
Conductor section	Flovible w/e lug conductor section		
	Flexible w/o lug conductor section min	mm²	0.75
	max	mm²	2.5
	Flexible c/w lug conductor section		2.0
	min	mm²	1.5
	max	mm²	2.5
	Flexible with insulated spade lug conductor section		
	min	mm²	1.5
	max	mm²	2.5
Power terminal protect	ction according to IEC/EN 60529		IP20 when wired
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail 35mm
Weight		g	179
Auxiliary contact chara	acteristics		
Type of contact			1 NC
Thermal current Ith		Α	10
IEC/EN 60947-5-1 de	esignation		A600 - Q600
Operating current AC	15		
	230V	Α	3
	400V	Α	1.9
	500V	Α	1.4
Operating current DC	12		
	110V	Α	2.9
Operating current DC	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
	mechanical load	cycles	20000000
	ing to IEC/EN 609474-4-1		yes
EMC compatibility			yes
Rated AC voltage at 6	50Hz	V	48
AC coil operating			
AC operating voltage			
	of 60Hz coil powered at 60Hz		
	pick-up	0/11	7.5
	min	%Us	75
	max	%Us	115
	drop-out	0/11	00
	min	%Us	20



		max	%Us	55
AC average coil consu	ımption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	30
		holding	VA	4
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	25
		holding	VA	3
	of 60Hz coil powered at 60Hz		١./٨	0.0
		in-rush	VA	30
Dissipation at halding	200°C 501 I-	holding	VA	4
Dissipation at holding	\$20°C 50HZ		W	0.95
Max cycles frequency			avalaa/b	2000
Mechanical operation			cycles/h	3600
Operating times	ontrol			
Average time for Us co	in AC			
	Closing N	NO		
	Ciosing i	Min	ms	12
		max	ms	21
	Opening		1110	_ '
	Spermig	min	ms	9
		max	ms	18
	Closing N			
	3	min	ms	17
		max	ms	26
	Opening	NC		
	•	min	ms	7
		max	ms	17
	in DC			
	Closing N	NO		
		min	ms	18
		max	ms	25
	Opening			
		min	ms	2
		max	ms	3
	Closing N			
		min	ms	3
	Q===::::	max	ms	5
	Opening		ma	11
		min	ms ms	11 17
UL technical data		max	1115	1 /
	for three-phase AC motor			
i un loud ourient (i LA)	Tot tilled phase Ao motor	at 480V	Α	7.6
		at 400V at 600V	A	6.1
Yielded mechanical pe	erformance	at 000 v	/\	J. 1
. Totada modificilioal pe	for single-phase AC motor			
	.e. origio pridocitio motor	110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor	2001		
		200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5

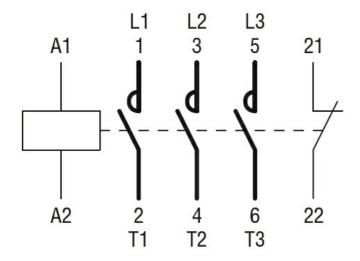


		575/600V	HP	5
General USE				
	Contactor			
		AC current	Α	20
Short-circuit protecti	on fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of auxiliary contacts according to UL				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 & Protect	ction			
Pollution degree				3
Dimensions				



Wiring diagrams

ENERGY AND AUTOMATION



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