



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)	A	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 (1) DOA 31 L/D (A) 11 A) 1	223 \$	- • •	

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



ENERGY AND AUTOMATION

Stycznik 3 polowy, 9A w AC3, wbudowany zestyk TNC, 48 VAC wersja fastor

	≤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	A	6
	75V	A	2
	110V	A	1
IFO are a compart to in DO2 DO5 with L/D < 45 are with 0 and a impossing	220V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	.0.11.1		•
	≤24V	Α	8
	48V	Α	8
	75V	Α	5
	110V	Α	4
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	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	220 V		0.0
TEC Max current le in DC3-DC3 with DTC 2 13/113 with 4 poles in series	<24\/	۸	10
	≤24V	A	10
	48V	Α	10
	75V	Α	6
	110V	Α	5
	220V	A	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)			
i one dissipation per pole (average value)	Ith	۱۸/	4
		W	
This character is to the characteristic	AC3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.6
	max	Ibin	0.7
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.59
	max	lbft	0.74
Max number of wires simultaneously connectable		nr.	2



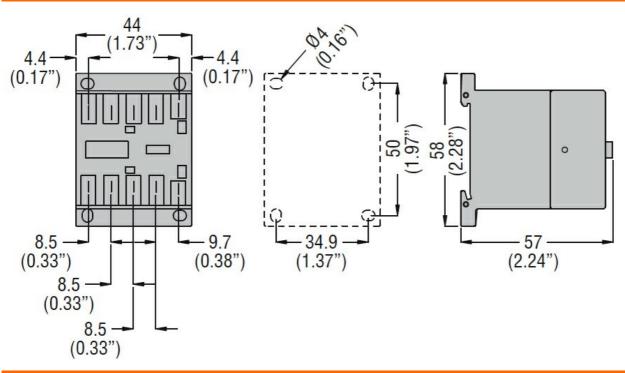
Conductor section	-			
	Flexible w/o lug conductor section	_	_	. ==
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
	tion according to IEC/EN 60529			IP20 when wired
Mechanical 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 des	signation			A600 - Q600
Operating current AC1				
opolaming carronity to	. •	230V	Α	3
		400V	A	1.9
		500V	A	1.4
Operating current DC1	12	0001		
Operating current bo	12	110V	Α	2.9
Operating current DC1	13	1100		2.0
Operating current DC	13	24V	Α	2.9
		48V	A	
				1.4
		60V	A	1.1
		125V	A	0.3
		220V	A	0.1
0 "		600V	Α	0.6
Operations				00000000
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
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	48
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	75
		max	%Us	115
	drop-out			
	·	min	%Us	20



				0/11-	
	of 50/60Hz coil	powered at 60Hz	max	%Us	55
	01 50/6002 0011	pick-up			
		ріск-ар	min	%Us	80
			max	%Us	115
		drop-out	max	7000	110
		arop out	min	%Us	20
			max	%Us	55
AC average coil cons	sumption at 20°C			,,,,,	
J		powered at 50Hz			
	'		in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil	powered at 60Hz	<u> </u>		
	'		in-rush	VA	25
			holding	VA	3
	of 60Hz coil pov	vered at 60Hz	9		
	, ,		in-rush	VA	30
			holding	VA	4
Dissipation at holding	ı ≤20°C 50Hz		<u> </u>	W	0.95
lax cycles frequency					
lechanical operation				cycles/h	3600
perating times					
verage time for Us	control				
-	in AC				
		Closing NO			
		G	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				
	III DC				
	III DC	Closing NO			
	III DC	Closing NO	min	ms	18
	III DC	Closing NO	min max	ms ms	18 25
	III DC	Closing NO Opening NO			
	III DC	-			252
	III DC	Opening NO	max	ms	25
	III DC	-	max min max	ms ms	25 2 3
	III DC	Opening NO	max min	ms ms	25233
	III DC	Opening NO Closing NC	max min max	ms ms ms	25 2 3
		Opening NO	max min max min max	ms ms ms	25 2 3 3 5
		Opening NO Closing NC	max min max min	ms ms ms	2523511
	III DC	Opening NO Closing NC	max min max min max	ms ms ms ms	25 2 3 3 5
IL technical data	III DC	Opening NO Closing NC	max min max min max min	ms ms ms ms	2523511
		Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms	2523511
JL technical data Full-load current (FLA		Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms	2523511

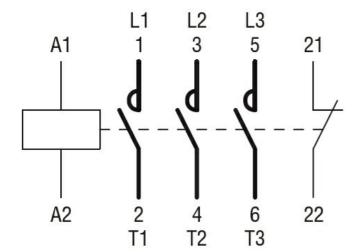


for single-phase AC motor		
110/120V	HP	0.5
230V	HP	1.5
for three-phase AC motor		_
200/208V	HP	2
220/230V	HP	3
460/480V	HP	5
575/600V	HP	5
General USE		
Contactor		
AC current	Α	20
Short-circuit protection fuse, 600V		
High fault		
Short circuit current	kA	100
Fuse rating	Α	30
Fuse class		J
Standard fault		
Short circuit current	kA	5
Fuse rating	Α	30
Contact rating of auxiliary contacts according to UL		A600 - Q600
Ambient conditions		
Tomporatura		
Temperature		
Operating temperature		
	°C	-50
Operating temperature	°C	-50 +70
Operating temperature min		
Operating temperature min max		
Operating temperature min max Storage temperature	°C	+70
Operating temperature min max Storage temperature min	°C	+70 -60
Operating temperature min max Storage temperature min max	°C °C	+70 -60 +80
Operating temperature min max Storage temperature min max Max altitude	°C °C	+70 -60 +80



Wiring diagrams





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Certificat	tione and	Lcomp	lianca
Certillica	liulis aliu	I COILID	lialice

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