





Product designation Product type designation			Power contactor BGF09
Contact characteristics			BGI 09
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
operational moduloney	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-1 (≤55°C)	Α	18
	AC-1 (≤70°C)	Α	15
	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
150 11 : BO4 : 11 1/B 44 : 11 0 1 : :	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	.0.41.4		
	≤24V	A	15
	48V	A	14
	75V	A	9
	110V	A	8
IFC may current to in DC1 with L/D < 1 mg with 2 notes in cories	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	~2A\/	۸	16
	≤24V 48V	A	16 16
	48 V 75 V	A A	16 10
	110V	A	10
	1100	^	10





	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
·	≤24V	Α	16
	48V	Α	16
	75V	A	10
	110V	A	10
	220V	A	2
IFO	220 V	A	
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			
	≤24V	Α	8
	48V	Α	8
	75V	A	5
	110V	A	4
150	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	Α	0,8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			,
	≤24V	Α	10
	48V	A	10
	75V	A	6
	110V	A	5
	220V	Α	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		A	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	A	72
	690V	A	72
Posietaneo por polo (avorago valuo)	090 v		
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC-3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	Ibin	9
Tightening torque for coil terminal	11107		<del>-</del>
Tighterning torque for conficilitial	min	Nm	0.8
	min		
	max	Nm	1
	min	lbin	9





		max	Ibin	9
Max number of wires s	simultaneously connectable		Nr.	2
Conductor section				_
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section		2	4 =
		min	mm²	1.5
	Florible with insulated and deliver and between a sti	max	mm²	2.5
	Flexible with insulated spade lug conductor section		mama <sup>2</sup>	1 E
		min	mm² mm²	1.5 2.5
-		max	ППП	IP20 when
Power terminal protec	tion according to IEC/EN 60529			properly wired
Mechanical features				property wired
Operating position				
1 J F		normal		Vertical plan
		allowable		±30°
				Screw / DIN rail
Fixing				35mm
Weight			g	210
Auxiliary contact chara	cteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 des	signation			A600 - Q600
Operating current AC1	5			
		230V	Α	3
		400V	Α	1.9
		500V	A	1.4
Operating current DC1	2		_	
		110V	Α	2.9
Operating current DC1	13		_	
		24V	A	2.9
		48V	A	1.4
		60V	A	1.1
		125V 220V	A A	0.3 0.1
		600V	A	0.6
Operations		0007	Α	0.0
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data			5,0.00	
	0d according to EN/ISO 13489-1			
	3	rated load	cycles	500000
		mechanical load	cycles	20000000
EMC compatibility			<u>,</u>	yes
DC coil operating				
DC rated control voltage	ge		V	48
DC operating voltage	-			
. 5 5	pick-up			
	•	min	%Us	75
		max	%Us	115



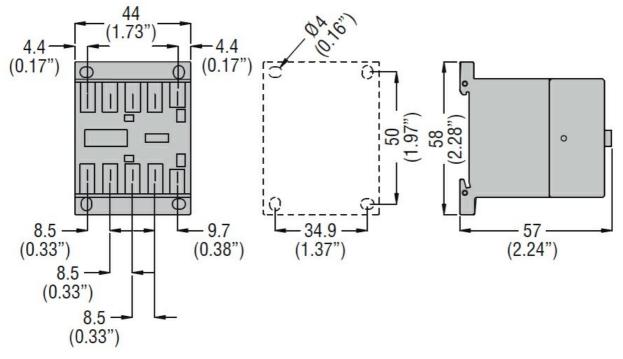


	drop-out		0/11-	40
		min	%Us	10
Average coil consumpt	on <20°C	max	%Us	25
Average con consumpt	011 ≤20 C	in-rush	W	2.3
		holding	W	2.3
Max cycles frequency		riolaling	• • • • • • • • • • • • • • • • • • • •	2.0
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co	ntrol			
	in AC			
	Closing NO			
		min	ms	12
		max	ms	21
	Opening NO			•
		min	ms	9
	Closing NC	max	ms	18
	Closing NC	min	ms	17
		max	ms	26
	Opening NC	Παλ	1113	20
	Opening No	min	ms	7
		max	ms	17
	in DC			
	Closing NO			
		min	ms	18
		max	ms	25
	Opening NO			
		min	ms	2
		max	ms	3
	Closing NC			
		min	ms	3
	Opening NC	max	ms	5
	Opening NC	min	mc	11
		max	ms ms	17
UL technical data		max	1110	17
Rated operational volta	de AC (UL)		V	600
-	for three-phase AC motor			
( 2 4)	•	at 480V	Α	7.6
		at 600V	Α	6.1
Yielded mechanical per	formance			
	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 HD	5 5
General USE		575/600V	HP	<u> </u>
General USE	Contactor			
	Contactor	AC current	Α	20
Short-circuit protection	fuse. 600V	, 10 Garront	- / \	
	·, - <b></b>			

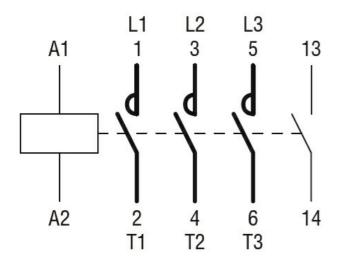




	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of auxilia	ry contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protection	n			
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