





Product designation Product type designation			Power contactor 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-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
150	690V	kW	22
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	40 AV /	•	4.0
	≤24V	A	12
	48V	A	10
	75V	A	4
	110V 220V	A	3
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	220 V	A	_
TEC max current le in DCT with L/R \(\simes \) mis with 2 poles in series	≤24V	۸	15
	≤24 V 48 V	A A	15 14
	75V	A	9
	110V	A	8
	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	220 V	77	
120 max surrout to in 201 with 2/1 = 1110 with 6 polos in selles	≤24V	Α	16
	48V	A	16
	75V	A	10
	110V	A	10
	220V	A	2
	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			_
The max sarron to in 8 co 8 co with Erry - Tomo with a poloco in conce	≤24V	Α	7
	48V	A	6
	75V	A	2
	110V	A	1
	220V	A	
IEC may current to in DC2 DC5 with L/D < 15mg with 2 males in series	220 V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	-0.4V.		•
	≤24V	A	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	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)	u (v)	A	92
Breaking capacity at voltage		- , ,	<u> </u>
Distance outputity at voltage	440V	Α	72
	500V	A	72 72
	690V	A	72 72
Posietaneo por polo (averago value)	090 v		
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)	1.1	147	4
	Ith	W	4
-	AC-3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9



	simultaneously connectable		Nr.	2
Conductor section	A1A/C/// are:I			
	AWG/Kcmil	max		12
	Flexible w/o lug conductor section	IIIdx		12
	Tickible wie 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	n		
		min	mm²	1.5
		max	mm²	2.5
	ction according to IEC/EN 60529			IP20 when properly wired
Mechanical features				
Operating position		_		
		normal		Vertical plan
		allowable		±30° Screw / DIN rail
Fixing				35mm
Weight			g	210
Conductor section	ANNO ()			
	AWG/kcmil conductor section			40
Auxiliary contact chara	actoristics	max		12
Thermal current Ith	aciensiles		А	10
IEC/EN 60947-5-1 de	signation			A600 - Q600
Operating current AC	~			
, 0		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	A	1.4
		60V	A	1.1
		125V 220V	A A	0.3 0.1
		600V	A	0.6
Operations		000 V		0.0
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
DC coil operating			\ .	222
DC rated control volta	ge		V	220
DC operating voltage				

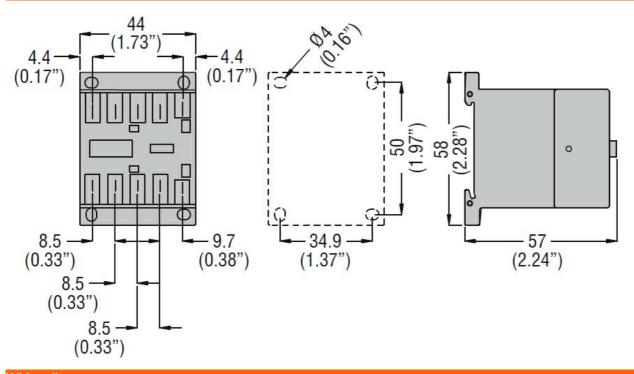




	minlem				
	pick-up		min	%Us	75
			min	%Us	75 115
			max	%US	110
	drop-out			0/116	10
			min	%Us	10
A	L' 400°O		max	%Us	25
Average coil consump	tion ≤20°C				
			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	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			
		. 0	min	ms	7
			max	ms	17
	in DC		-		
	20	Closing NO			
		Cidening 110	min	ms	18
			max	ms	25
		Opening NO	max	1110	20
		Opening 140	min	ms	2
			max	ms	3
		Closing NC	IIIdX	1113	5
		Ciosing NC	min	me	3
				ms ms	5 5
		Opening NC	max	ms	J
		Opening NC		me	11
			min	ms	11
III to obvioel dete			max	ms	17
UL technical data	A familiana a salar	A.C. resistan			
Full-load current (FLA)	ı ıor tnree-phase	AC MOTOR			7.0
			at 480V	A	7.6
			at 600V	Α	6.1
Yielded mechanical pe					
	for single-phas	se AC motor			
			110/120V	HP	0.5
			230V	HP	1.5
	for three-phase	e AC motor			
			200/208V	HP	2
			220/230V	HP	3
			460/480V	HP	5
			575/600V	HP	5
General USE					
	Contactor				



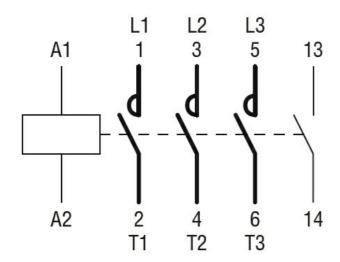
		AC current	Α	20
Short-circuit protecti	ion fuse, 600V			
·	High fault			
	Ğ	Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of auxiliary contacts according to UL				A600 - Q600
Ambient conditions				
Temperature				
	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

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, DC COIL, 220VDC, 1NO AUXILIARY CONTACT, FASTON TERMINALS



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