





Product designation Product type designation			Power contactor BGF09
Contact characteristics			BGF09
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
operation in equations	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
	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





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	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	220 V	, ,	
TEO MAX CANON TO IT DOO-DOO WILL LITE 2 TOMB WILL I POICS III SCHES	≤24V	٨	7
		A	
	48V	A	6
	75V	Α	2
	110V	Α	1
	220V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤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			
120 max outfork to in 200 200 with Lift 2 forths with 6 poles in selles	≤24V	Α	10
	48V	A	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			
T TO COOLON TO CO	gG (IEC)	Α	20
Making canasity (DMC yelus)	aM (IEC)	A	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)			
· · · · · · · · · · · · · · · · · · ·	Ith	W	4
	AC-3	W	0.81
Tightening torque for terminals			
Tightoning torquo for torminato	min	Nm	0.8
		Nm	
	max		1
	min	lbin	9
<del></del>	max	lbin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9





Max number of wires simu	ultaneously connectable	Nr.	2
Conductor section			
A	WG/Kcmil		
=	ma Na silata waka na na kata na na kata na	IX	12
F	lexible w/o lug conductor section m	n mm²	0.75
	mi		2.5
 F	lexible c/w lug conductor section		2.0
·	m	n mm²	1.5
	ma	x mm²	2.5
F	lexible with insulated spade lug conductor section		
	m		1.5
	ma	x mm²	2.5
·	according to IEC/EN 60529		IP20 when properly wired
Mechanical features			
Operating position			
	norm allowab		Vertical plan ±30°
	allowab	е	Screw / DIN rail
Fixing			35mm
Weight		g	179
Conductor section	MC//carell conductor costion		
A	NWG/kcmil conductor section	v	12
Auxiliary contact characte		IA	12
Thermal current Ith	motios	А	10
IEC/EN 60947-5-1 design	nation		A600 - Q600
Operating current AC15			
	230	V A	3
	400		1.9
	500	V A	1.4
Operating current DC12			
On a ratio a accurant DC42	110	V A	2.9
Operating current DC13	24	V A	2.9
	48		1.4
	60		1.1
	125		0.3
	220	V A	0.1
	600	V A	0.6
Operations			2225
Mechanical life		cycles	
Electrical life		cycles	500000
Safety related data Performance level B10d:	according to EN/ISO 13489-1		
i chomiance level bilou (	rated loa	d cycles	500000
	mechanical loa	•	
Mirror contats according t		.,	yes
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 60Hz	Z	V	120
AC operating voltage			



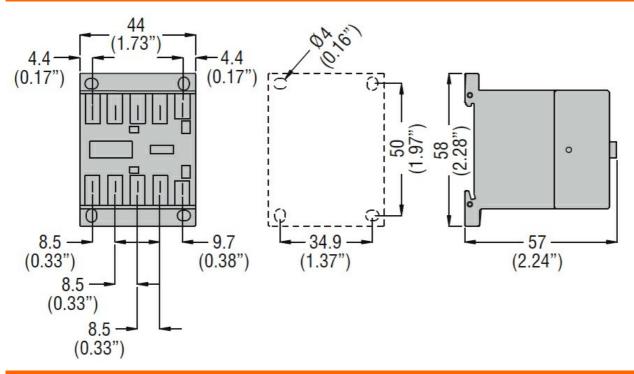


	-f 001  !				
	of 60Hz coil power	pick-up			
		ріск-ар	min	%Us	75
			max	%Us	115
		drop-out	max	7000	110
		arop cut	min	%Us	20
			max	%Us	55
AC average coil consu	umption at 20°C				
-	of 50/60Hz coil po	owered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil po	owered at 60Hz			
			in-rush	VA	25
	_		holding	VA	3
	of 60Hz coil power	ered at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holding	≤20°C 50Hz			W	0.95
Max cycles frequency					0000
Mechanical operation				cycles/h	3600
Operating times	ontrol				
Average time for Us co					
	in AC	Closing NO			
		Closing NO	min	ms	12
			max	ms	21
		Opening NO	IIIax	1113	21
		Opening No	min	ms	9
			max	ms	18
		Closing NC			
		Ü	min	ms	17
			max	ms	26
		Opening NC			
			min	ms	7
			max	ms	17
	in DC				
		Closing NO			
			min	ms	18
		On with MO	max	ms	25
		Opening NO	!		2
			min	ms ms	2
		Closing NC	max	ms	3
		Ciosing NO	min	ms	3
			max	ms	5
		Opening NC	max	1113	J
		oponing 110	min	ms	11
			max	ms	17
UL technical data				5	
Full-load current (FLA)	) for three-phase A(	C motor			
	,		at 480V	Α	7.6
			at 600V	Α	6.1
Yielded mechanical pe	erformance				
	for single-phase	AC motor			
	Э : p				





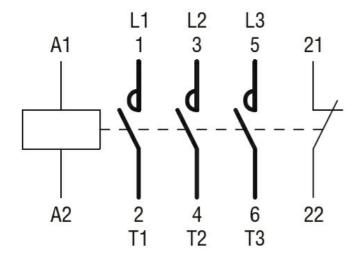
		110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
		200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE				
	Contactor			
		AC current	Α	20
Short-circuit protect	tion fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of au	xiliary contacts according to UL	3		A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature			
	op a company	min	°C	-50
		max	°C	+70
	Storage temperature			
	gop	min	°C	-60
		max	°C	+80
Max altitude		ax	m	3000
Resistance & Prote	ction			0000
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