





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-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			

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			
·	≤24V	Α	8
	48V	Α	8
	75V	Α	5
	110V	Α	4
	220V	Α	<u>-</u>
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	2201	- / (
120 max current to in 200-200 with 2/1 2 forms with 5 poles in series	≤24V	Α	10
	48V	A	10
	75V	A	6
	110V		5
	220V	A	
IFO	220 V	A	0,8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	40.4V.		4.0
	≤24V	A	10
	48V	A	10
	75V	A	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)		$m\Omega$	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal			•
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
		lbin	9
Max number of wires simultaneously connectable	max	Nr.	2
Max number of wires simultaneously connectable		INI.	۷





Conductor costion				
Conductor section	AWG/Kcmil			
	AWO/Normi	max		12
	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		2	4.5
		min max	mm² mm²	1.5 2.5
		IIIax	111111	IP20 when
Power terminal protect	ction according to IEC/EN 60529			properly wired
Mechanical features				ртор оту
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	180
Conductor section				
	AWG/kcmil conductor section			
A Programme of the standard services		max		12
Auxiliary contact chara	acteristics		^	10
Thermal current Ith	scianation		Α	10 A600 - Q600
IEC/EN 60947-5-1 de Operating current AC				A600 - Q600
operating current AO	10	230V	Α	3
		400V	A	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	A	1.1
		125V	A	0.3
		220V 600V	A A	0.1 0.6
Operations		6007	^	0.0
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data			.,	
·	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
AC coil operating				
Rated AC voltage at 6	60Hz		V	24
AC operating voltage				
	of 60Hz coil powered at 60Hz			



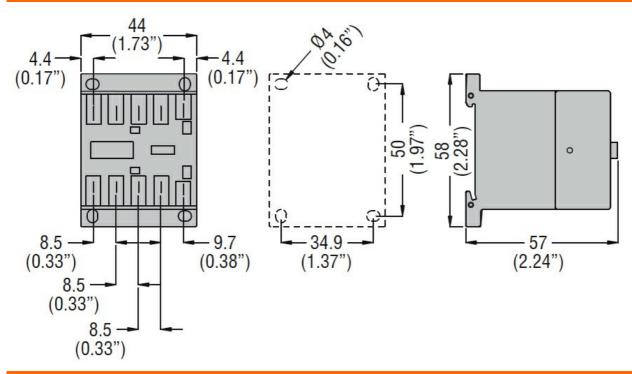


		pick-up			
			min	%Us	75
			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	55
AC average coil consu					
	of 50/60Hz coil por	wered at 50HZ	in much	١/٨	20
			in-rush	VA VA	30
	of FO/COLLT poil no	wared at COUT	holding	VA	4
	of 50/60Hz coil por	wered at 60H2	in much	١/٨	25
			in-rush	VA VA	25 3
	of COLLT and name	end at COUT	holding	VA	<u> </u>
	of 60Hz coil power	ed at 60HZ	in much	١/٨	20
			in-rush	VA VA	30
Dissipation at halding	<20°C F0U~		holding	VA	4
Dissipation at holding Max cycles frequency				W	0.95
Mechanical operation				cycles/h	3600
Operating times				Cycles/II	3000
Average time for Us of	ontrol				
7 Wordgo timo for Go o	in AC				
	111710	Closing NO			
		Closing 110	min	ms	12
			max	ms	21
		Opening NO	max	1110	
		oponing 110	min	ms	9
			max	ms	18
		Closing NC	max		.0
		G.55g 5	min	ms	17
			max	ms	26
		Opening NC			
		- F	min	ms	7
			max	ms	17
	in DC				.
		Closing NO			
		J	min	ms	18
			max	ms	25
		Opening NO			
		. •	min	ms	2
			max	ms	3
		Closing NC			
		-	min	ms	3
			max	ms	5
		Opening NC			
		-	min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA) for three-phase AC	motor			
			at 480V	Α	7.6
			at 600V	Α	6.1
Yielded mechanical pe					
	erformance for single-phase A	C motor			
		C motor	110/120V	HP	0.5





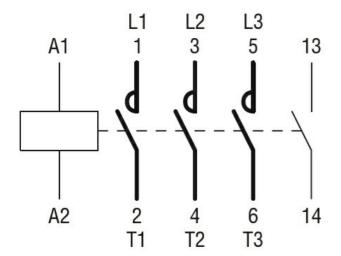
		230V	HP	1.5
	for three-phase AC motor	2001	• • • • • • • • • • • • • • • • • • • •	1.0
	ter and prides rie meter	200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE				
	Contactor			
		AC current	Α	20
Short-circuit protection	fuse, 600V			
	High fault			
		Short circuit current	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				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protection	<u></u>			
resolutarios de l'istostic	Л			
Pollution degree Dimensions				3



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