





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)	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)	0001/		
	230V	kW	8
	400V	kW	14
	500V	kW	16
IFC many assument to im DC4 with L/D < 4 may with 4 males in agrics	690V	kW	22
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	<041/	۸	40
	≤24V 48V	A	12 10
	46 V 75 V	A A	4
	110V	A	3
	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	Z20 V		
TEO max current to in DOT with E/N = 1m3 with 2 poics in 3chos	≤24V	Α	15
	48V	A	14
	75V	Α	9
	110V	Α	8
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		<u> </u>	
	≤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	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	_
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
TEO MAX CANCING IN BOO BOO WAI ENT = Tomo WAIT + poloci in conce	≤24V	Α	10
	48V	A	10
	75V	A	6
	110V	A	5
	220V	A	0,8
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A	96
Protection fuse			30
1 100000011 1000	gG (IEC)	Α	20
	aM (IEC)	A	10
Making capacity (RMS value)	aivi (ILO)	A	92
Breaking capacity (Kino Value)			32
Droaming dapatity at voltage	440V	Α	72
	500V	A	72 72
	690V	A	72 72
Resistance per pole (average value)	090 V	mΩ	10
Power dissipation per pole (average value)		11122	10
r ower dissipation per pole (average value)	Ith	W	4
	AC-3	W	0.81
Tightening torque for terminals	AC-3	V V	0.01
rightening torque for terminals	min	Nlm	0.8
	min	Nm Nm	
	max	Nm	1
	min	lbin Ibin	9
Tightoning targue for call terminal	max	Ibin	9
Tightening torque for coil terminal		N lora	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9





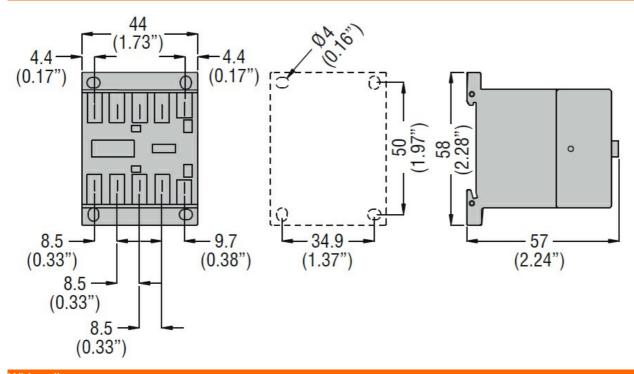
Max number of wires	simultaneously connectable		Nr.	2
Conductor section	•			
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section		2	0.75
		min max	mm² mm²	0.75 2.5
	Flexible c/w lug conductor section	Παλ	111111	2.5
	Tioxidia di Wilag dell'addicti dedicti	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
<u> </u>	ction according to IEC/EN 60529			IP20 when properly wired
Mechanical features				
Operating position				.,
		normal allowable		Vertical plan ±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	224
Conductor section	AWG/kcmil conductor section			
	AVVG/RCITIII CONDUCTOR SECTION	max		12
Auxiliary contact chara	acteristics	max		12
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - Q600
Operating current AC	15			
		230V	A	3
		400V 500V	A A	1.9 1.4
Operating current DC	12	3007	<u> </u>	1.4
Operating current bo		110V	Α	2.9
Operating current DC	13			
		24V	Α	2.9
		48V	Α	1.4
		60V	Α	1.1
		125V	A	0.3
		220V 600V	A A	0.1 0.6
Operations		0007		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
Mirror contate cocard		hanical load	cycles	20000000
EMC compatibility	ing to IEC/EN 609474-4-1			yes yes
DC coil operating				y 0.3
DC rated control volta	nge		V	48
DC operating voltage	•			



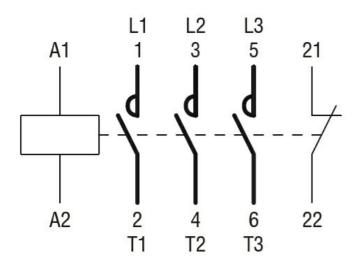


	niale				
	pick-up		min	%Us	75
			max	%Us	115
	drop-out		тих	7003	110
	arop out		min	%Us	10
			max	%Us	25
Average coil consumpt	tion ≤20°C				
			in-rush	W	2.3
			holding	W	2.3
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times	and and				
Average time for Us co	in AC				
	III AC	Closing NO			
		Closing NO	min	ms	12
			max	ms	21
		Opening NO	тах	1110	21
		- ₋ - · · · · · · · · · · · ·	min	ms	9
			max	ms	18
		Closing NC			
		· ·	min	ms	17
			max	ms	26
		Opening NC			
			min	ms	7
			max	ms	17
	in DC				
		Closing NO			
			min	ms	18
		Opening NO	max	ms	25
		Opening NO	min	ms	2
			max	ms	3
		Closing NC	IIIdx	1113	3
		Clooming 110	min	ms	3
			max	ms	5
		Opening NC			
		. 0	min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC mo	otor			
			at 480V	Α	7.6
			at 600V	Α	6.1
Yielded mechanical pe					
	for single-phase AC r	motor	4.40/4001/		
			110/120V	HP	0.5
	for three phase AC	notor	230V	HP	1.5
	for three-phase AC m	IOIOI	200/2001	ПD	2
			200/208V 220/230V	HP HP	2
			460/480V	HP HP	3 5
			575/600V	HP	5
General USE			07 07 00 0 V		
230.0. 002	Contactor				

		AC current	Α	20
Short-circuit protect	ion 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 aux	xiliary 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 & Prote	ction			
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