





Contact characteristics Number of poles Nime Nime	Product designation Product type designation			Power contactor BGF09
Number of poles	7.7			BG1 00
Rated insulation voltage UirEC/EN V 690 Rated impulse withstand voltage Uimp kV 6 Operational frequency min Hz 25 max Hz 400 Hz 400 IEC Conventional free air thermal current Ith A 20 20 Operational current Ie AC-1 (≤40°C) A 15 AC-1 (≤55°C) A 18 AC-1 (≤70°C) A 15 AC-3 (≤440V ≤55°C) A 9 AC-4 (400V) A 4 Rated operational power AC-3 (T≤55°C) 230V kW 4 4 Rated operational power AC-1 (T≤40°C) 230V kW 4 4 Rated operational power AC-1 (T≤40°C) 230V kW 8 Rated operational power AC-1 (T≤40°C) 230V kW 8 Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 16 690V kW 16 Foot and the power AC-1 (T≤40°C) 230V kW 16 690V<			Nr.	3
Rated impulse withstand voltage Uimp				
Departional frequency				
Figure				
EC Conventional free air thermal current Ith		min	Hz	25
EC Conventional free air thermal current lth				
Operational current le AC-1 (≤45°C) A 20 AC-1 (≤55°C) A 18 AC-1 (≤70°C) A 15 AC-3 (≤440V ≤5°C) A 9 AC-4 (400V) A 4 Rated operational power AC-3 (T≤5°C) 230V kW 4.3 440V kW 5.5 500V kW 5.5 South W 5.5 Falted operational power AC-1 (T≤40°C) 230V kW 8.8 400V kW 14 500V kW 16 690V kW 22 22 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V A 12 48V A 10 75V A 9 110V A 8 220V A - - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 15 48V A 14 75V A 9 110V A 8 220V A - - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 16 48V A 16 48V A 16 48V A 16 48V A 16 48V A 16 48V A 10 75V A 10	IEC Conventional free air thermal current Ith			
AC-1 (≤40°C)				
AC-1 (≤55°C) A 18 AC-1 (≤70°C) A 15 AC-3 (≤440V ≤55°C) A 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 Rated operational power AC-1 (T≤40°C) 230V kW 5 Rated operational power AC-1 (T≤40°C) 230V kW 14 500V kW 14 500V kW 22 EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series 524V A 12 48V A 10 75V A 4 110V A 3 220V A - EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series 524V A 15 48V A 14 75V A 9 110V A 8 220V A - EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series 524V A 15 48V A 16 48V A 10 48V A	•	AC-1 (≤40°C)	Α	20
AC-1 (S70°C)		,		
AC-3 (≤440V ≤55°C) A 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 5 500V kW 5 690V 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 A 12 48V A 10 75V A 4 110V A 3 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 15 48V A 10 75V A 9 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		` ,		
Rated operational power AC-3 (T≤55°C) 230V kW 2.2 400V kW 4 415V kW 4.3 440V kW 5 500V kW 14 500V kW 14 500V kW 16 690V kW 22 500V kW 22 500V 600V				
230V kW 2.2 400V kW 4 415V kW 4.3 440V kW 4.5 500V kW 5 500V kW 14 500V kW 14 500V kW 16 690V kW 22 500V kW			Α	
A00V kW 4 415V kW 4.3 440V kW 4.5 500V kW 5 690V kW 5 690V kW 5 690V kW 14 500V kW 14 500V kW 16 690V kW 22 IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	Rated operational power AC-3 (T≤55°C)			
A15V kW 4.3 440V kW 4.5 500V kW 5 690V kW 14 600V kW 14 600V kW 16 690V kW 22 600V kW 23 600V kW 24 600V kW 24 600V kW 25 600V kW 20 600V kW 4.5 600V		230V	kW	2.2
A40V kW 4.5 500V kW 5 690V kW 14 600V kW 14 600V kW 16 690V kW 22 690V kW 22 690V 6		400V	kW	4
Soov kW 5 690V kW 5		415V	kW	4.3
Rated operational power AC-1 (T≤40°C) 230V kW 8 400V kW 14 500V kW 16 690V kW 22		440V	kW	4.5
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 A 12 48V A 10 75V A 4 110V A 3 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 15 48V A 14 75V A 9 110V A 8 220V A - IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 15 48V A 14 75V A 9 110V A 8 220V A -		500V	kW	5
		690V	kW	5
400V kW 14 500V kW 16 690V kW 22	Rated operational power AC-1 (T≤40°C)			_
S00V kW 16 690V kW 22		230V	kW	8
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series		400V	kW	14
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series ≤24V		500V	kW	16
		690V	kW	22
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
T5V A 4 110V A 3 220V A -		≤24V	Α	12
110V A 3 220V A -			Α	10
EC max current le in DC1 with L/R \leq 1ms with 2 poles in series \leq 24V A 15 48V A 14 75V A 9 110V A 8 220V A -			Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V A 15 48V A 14 75V A 9 110V A 8 220V A − IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 16 48V A 16 75V A 10			Α	3
		220V	A	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				
EC max current le in DC1 with L/R \leq 1ms with 3 poles in series \leq 24V A 16 48V A 16 75V A 10				
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series ≤24V A 16 48V A 16 75V A 10				8
≤24V A 16 48V A 16 75V A 10		220V	A	
48V A 16 75V A 10	IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
75V A 10				
110V A 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	A	10
	110V	A	10
	220V	A	2
IFO	2201	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	A	8
	75V	A	5
	110V	A	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		- , ,	0,0
The max current to in 500-500 with E/N = 10m3 with 4 poles in series	≤24V	Α	10
	48V		10
		A	
	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)	()	A	92
Breaking capacity at voltage			-
broaking outputity at voltage	4401/	۸	72
	440V	A	72
	500V	A	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			
9 · · · · · · · · · · · · · · · · · · ·	min	Nm	0.8
	max	Nm	
			1
	min	lbin	9
	max	Ibin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9





		max	Ibin	9
	s simultaneously connectable		Nr.	2
Conductor section	ANACO III			
	AWG/Kcmil			40
	Florible w/e lug conductor coetion	max		12
	Flexible w/o lug conductor section	min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section	IIIdX	111111	2.0
	r lexible 6/w rug corrudctor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor secti			2.0
	Tionibio Will inculated opado lag contactor cook	min	mm²	1.5
		max	mm²	2.5
.				IP20 when
Power terminal prote	ection according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	224
Auxiliary contact cha	aracteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 c				A600 - Q600
Operating current A	C15			
		230V	Α	3
		400V	Α	1.9
		500V	A	1.4
Operating current D	C12	4.401.4		
	0.40	110V	Α	2.9
Operating current D	C13	241		
		24V	A	2.9
		48V	A	1.4
		60V	A	1.1
		125V 220V	A	0.3 0.1
		600V	A A	0.6
Operations		000 V	A	0.0
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data			0 y 0100	
•	310d according to EN/ISO 13489-1			
. 5.15.11141100 10401 L	2.00 according to 214/100 10 100 1	rated load	cycles	500000
		mechanical load	cycles	2000000
Mirror contats accor	ding to IEC/EN 609474-4-1		2,0.00	Yes
EMC compatibility	g			yes
DC coil operating				
DC rated control vol	tage		V	48
DC operating voltag			<u> </u>	_
: -	pick-up			
	1 777 MF	min	%Us	75
				-

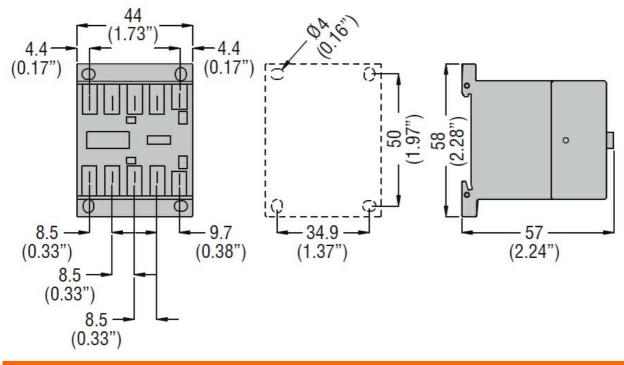




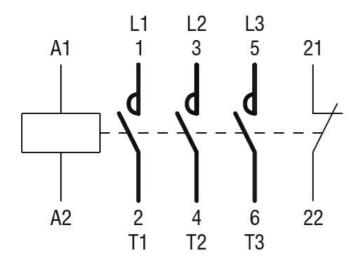
•	max	%Us	115
drop-out	min	%Us	10
	max	%Us	25
Average coil consumption ≤20°C			
	in-rush	W	2.3
Max cycles frequency	holding	W	2.3
Mechanical operation		cycles/h	3600
Operating times		Cy Clock 11	0000
Average time for Us control			
in AC			
Closing NO			
	min	ms	12
Opening NO	max	ms	21
Opening NO	min	ms	9
	max	ms	18
Closing NC	max	1110	10
3.55.mg	min	ms	17
	max	ms	26
Opening NC			
	min	ms	7
·	max	ms	17
in DC			
Closing NO			4.0
	min	ms ms	18 25
Opening NO	max	ms	25
Opening No	min	ms	2
	max	ms	3
Closing NC			
•	min	ms	3
	max	ms	5
Opening NC			
	min	ms	11
III technical data	max	ms	17
UL technical data Rated operational voltage AC (UL)		V	600
Full-load current (FLA) for three-phase AC motor		v	
Tall load carron (LD y for three phase No meter	at 480V	Α	7.6
	at 600V	Α	6.1
Yielded mechanical performance			
for single-phase AC motor			
	110/120V	HP	0.5
	230V	HP	1.5
for three-phase AC motor	222/225		
	200/208V	HP	2
	220/230V	HP	3
	460/480V 575/600V	HP HP	5 5
General USE	373/0001	1 11	
Contactor			
2333.5.	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 au	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