



Product designation			Power contactor
Product type designation			BG09
Contact characteristics			2000
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	A	9
	110V	A	8
IFO and a summer to be DOA with 1/D < Amount to be produced by a summer to be produced by the summer to	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	40.407		4.0
	≤24V	A	16 16
	48V	A	16
	75V 110V	A	10 10
	220V	A A	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	ZZUV	Α	
ILO max current le in DOT with L/K > This with 4 poles in series	≤24V	۸	16
	≤24V 48V	A A	16
	48 V 75 V	A	10
	75V 110V	A	10
	220V	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in seri			
TEO MAX current le in 200-200 with E/1(= 10ms with 1 poles in sen	es ≤24V	Α	7
	48V	A	6
	70 V	^	



	75V	Α	2
	110V	A	1
	220V	A	<u>-</u>
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V	/\	
TEO MAX CARTON TO III DOC-DOC WITH LITE 2 TOTHS WITH 2 POICS III SCHES	≤24V	Α	8
	48V		
		A	8
	75V	A	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			· · · · · · · · · · · · · · · · · · ·
= 2 00 200 mar art = 10mb mar 1 polocom dolloo	≤24V	Α	10
	48V	A	10
	75V		
		A	6
	110V	A	5
	220V	Α	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	20
- <u></u>	aM (IEC)	Α	10
Making capacity (RMS value)	·	Α	92
Breaking capacity at voltage			
	440V	Α	72
	500V	Α	72
	690V	A	72
Resistance per pole (average value)	000 V	mΩ	10
Power dissipation per pole (average value)		11122	10
Power dissipation per pole (average value)	141-	147	4
	Ith	W	4
	AC3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
		Ibin	0.74
	max	10111	
Tightening torque for coil terminal	max	10111	
Tightening torque for coil terminal			0.8
Tightening torque for coil terminal	min	Nm	0.8
Tightening torque for coil terminal	min max	Nm Nm	1
Tightening torque for coil terminal	min max min	Nm Nm Ibin	1 Prodotti finiti
	min max	Nm Nm Ibin Ibin	1 Prodotti finiti Prodotti finiti
Max number of wires simultaneously connectable	min max min	Nm Nm Ibin	1 Prodotti finiti
Max number of wires simultaneously connectable Conductor section	min max min	Nm Nm Ibin Ibin	1 Prodotti finiti Prodotti finiti
Max number of wires simultaneously connectable	min max min	Nm Nm Ibin Ibin	1 Prodotti finiti Prodotti finiti
Max number of wires simultaneously connectable Conductor section	min max min	Nm Nm Ibin Ibin	1 Prodotti finiti Prodotti finiti
Max number of wires simultaneously connectable Conductor section	min max min max	Nm Nm Ibin Ibin Nr.	1 Prodotti finiti Prodotti finiti 2
Max number of wires simultaneously connectable Conductor section Flexible w/o lug conductor section	min max min max min	Nm Nm Ibin Ibin Nr.	1 Prodotti finiti Prodotti finiti 2
Max number of wires simultaneously connectable Conductor section	min max min max min max	Nm Nm Ibin Ibin Nr. mm²	1 Prodotti finiti Prodotti finiti 2 0.75 2.5
Max number of wires simultaneously connectable Conductor section Flexible w/o lug conductor section	min max min max min	Nm Nm Ibin Ibin Nr.	1 Prodotti finiti Prodotti finiti 2





	min	mm²	1.5
Device towning protection according to IFC/FN COF	max	mm²	2.5
Power terminal protection according to IEC/EN 605	29		IP20 when wired
Mechanical features			
Operating position	normal		Vertical plan
	normal allowable		Vertical plan ±30°
	allowable		Screw / DIN rail
Fixing			35mm
Weight		g	179
Auxiliary contact characteristics			
Type of contact			1 NO
Thermal current Ith		Α	10
IEC/EN 60947-5-1 designation			A600 - Q600
Operating current AC15			
	230V	Α	3
	400V	Α	1.9
	500V	Α	1.4
Operating current DC12			
	110V	Α	2.9
Operating current DC13			
	24V	Α	2.9
	48V	Α	1.4
	60V	Α	1.2
	110V	Α	0.6
	125V	Α	0.55
	220V	Α	0.3
	600V	Α	0.1
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	500000
Safety related data		cycles	500000
	9-1	cycles	500000
Safety related data	9-1 rated load		
Safety related data			
Safety related data	rated load	cycles	500000
Safety related data Performance level B10d according to EN/ISO 1348 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility	rated load	cycles	500000 20000000
Safety related data Performance level B10d according to EN/ISO 1348 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility Rated AC voltage at 60Hz	rated load	cycles	500000 20000000 Yes
Safety related data Performance level B10d according to EN/ISO 1348 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility	rated load	cycles cycles	500000 20000000 Yes Yes
Safety related data Performance level B10d according to EN/ISO 1348 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility Rated AC voltage at 60Hz AC coil operating AC operating voltage	rated load mechanical load	cycles cycles	500000 20000000 Yes Yes
Safety related data Performance level B10d according to EN/ISO 1348 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility Rated AC voltage at 60Hz AC coil operating	rated load mechanical load	cycles cycles	500000 20000000 Yes Yes
Safety related data Performance level B10d according to EN/ISO 1348 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility Rated AC voltage at 60Hz AC coil operating AC operating voltage of 60Hz coil powered at 60Hz	rated load mechanical load	cycles cycles	500000 20000000 Yes Yes
Safety related data Performance level B10d according to EN/ISO 1348 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility Rated AC voltage at 60Hz AC coil operating AC operating voltage of 60Hz coil powered at 60Hz	rated load mechanical load	cycles cycles	500000 20000000 Yes Yes
Safety related data Performance level B10d according to EN/ISO 1348 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility Rated AC voltage at 60Hz AC coil operating AC operating voltage of 60Hz coil powered at 60Hz	rated load mechanical load	cycles cycles V	500000 20000000 Yes Yes 24
Safety related data Performance level B10d according to EN/ISO 1348 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility Rated AC voltage at 60Hz AC coil operating AC operating voltage of 60Hz coil powered at 60Hz	rated load mechanical load	cycles cycles V	500000 20000000 Yes Yes 24
Safety related data Performance level B10d according to EN/ISO 1348 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility Rated AC voltage at 60Hz AC coil operating AC operating voltage of 60Hz coil powered at 60Hz	rated load mechanical load	cycles cycles V %Us %Us	500000 20000000 Yes Yes 24
Safety related data Performance level B10d according to EN/ISO 1348 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility Rated AC voltage at 60Hz AC coil operating AC operating voltage of 60Hz coil powered at 60H pick	rated load mechanical load	cycles cycles V	500000 20000000 Yes Yes 24
Safety related data Performance level B10d according to EN/ISO 1348 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility Rated AC voltage at 60Hz AC coil operating AC operating voltage of 60Hz coil powered at 60Hz	rated load mechanical load	cycles cycles V %Us %Us	500000 20000000 Yes Yes 24
Safety related data Performance level B10d according to EN/ISO 1348 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility Rated AC voltage at 60Hz AC coil operating AC operating voltage of 60Hz coil powered at 60H pick	rated load mechanical load	cycles cycles V %Us %Us	500000 20000000 Yes Yes 24
Safety related data Performance level B10d according to EN/ISO 1348 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility Rated AC voltage at 60Hz AC coil operating AC operating voltage of 60Hz coil powered at 60H pick dro AC average coil consumption at 20°C	rated load mechanical load	cycles cycles V %Us %Us	500000 20000000 Yes Yes 24
Safety related data Performance level B10d according to EN/ISO 1348 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility Rated AC voltage at 60Hz AC coil operating AC operating voltage of 60Hz coil powered at 60H pick dro AC average coil consumption at 20°C	rated load mechanical load Hz K-up min max p-out min max	cycles cycles V %Us %Us %Us %Us	500000 20000000 Yes Yes 24 75 115 20 55
Safety related data Performance level B10d according to EN/ISO 1348 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility Rated AC voltage at 60Hz AC coil operating AC operating voltage of 60Hz coil powered at 60H pick dro AC average coil consumption at 20°C	rated load mechanical load Hz K-up min max p-out min max 50Hz in-rush holding	cycles cycles V %Us %Us %Us %Us	500000 200000000 Yes Yes 24 75 115 20 55
Safety related data Performance level B10d according to EN/ISO 1348 Mirror contats according to IEC/EN 609474-4-1 EMC compatibility Rated AC voltage at 60Hz AC coil operating AC operating voltage of 60Hz coil powered at 60Hz dro AC average coil consumption at 20°C of 50/60Hz coil powered at	rated load mechanical load Hz K-up min max p-out min max 50Hz in-rush holding	cycles cycles V %Us %Us %Us %Us	500000 20000000 Yes Yes 24 75 115 20 55





	of COLIZ anil neurored at COLIZ	holding	VA	3
	of 60Hz coil powered at 60Hz	in-rush	VA	30
		holding	VA	4
Dissipation at holding :	≤20°C 50Hz	110101119	W	0.95
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co				
	in AC			
	Closing NO			40
		min	ms	12 21
	Opening NO	max	ms	21
	Opening NO	min	ms	9
		max	ms	18
	Closing NC			-
	ű	min	ms	17
		max	ms	26
	Opening NC			
		min	ms	7
	- <u></u>	max	ms	17
	in DC			
	Closing NO			4.0
		min	ms	18
	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. de al altra la la de		max	ms	17
UL technical data	for three whose AC mater			
ruii-ioad current (FLA)	for three-phase AC motor	at 480V	Α	7.6
		at 600V	A	6.1
Yielded mechanical pe	erformance	αι σσσ ν	/ \	<u> </u>
pc	for single-phase AC motor			
	U	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
0		575/600V	HP	5
General USE	Contactor			
	Contactor	AC current	٨	20
Short-circuit protection	fuse 600V	AC Current	A	۷۷
GHOR-GIRGUIL PROTECTION	High fault			
	g	Short circuit current	kA	100
		C. C. C. Cart Garrollt		. • •





		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
Contact rating of auxili	ary 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	on			
Pollution degree				3
Dimensions				
Wiring diagrams				
Certifications and com	pliance			
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