



Product designation			Power contactor
Product type designation			BG09
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
150 O	max	Hz	400
IEC Conventional free air thermal current Ith		Α	20
Operational current le	AC 4 (<40°C)	۸	20
	AC-1 (≤40°C) AC-3 (≤440V ≤55°C)	A A	20 9
	AC-3 (\$440V \$55 C) AC-4 (400V)	A	4
Rated operational power AC-3 (T≤55°C)	AO-4 (400V)		
Nated operational power AO-5 (1200 O)	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	A	3
IFO many assembly in DOA with 1/D < 4 are with 0 males in paries	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	<041/	۸	4.5
	≤24V 48V	A	15
	46 V 75 V	A	14
	110V	A A	9 8
	220V	A	-
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	Z20 V		
120 max outlett to in 201 with 2/1 2 mile with 6 poice in series	≤24V	Α	16
	48V	A	16
	75V	Α	10
	110V	Α	10
	220V	Α	2
		-	-





	≤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	<u>.</u>	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series				
The max carrent to in Boo Boo man Brit - Tomo man 2 police in conice	≤24V	Α	8	
	48V	A	8	
	75V	Α	5	
	110V	Α	4	
	220V	A	_	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	220 V			
TEC Max current le in DC3-DC3 with E/N 3 Toms with 3 poles in series	≤24V	۸	10	
	≥24 V 48 V	A	10	
		A		
	75V	A	6	
	110V 220V	A	5	
IFO	2201	Α	8.0	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	.0.11.1		4.0	
	≤24V	Α	10	
	48V	Α	10	
	75V	Α	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	
	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)		mΩ	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	0.59	
	max	Ibin	0.74	
Tightening torque for coil terminal				
	min	Nm	0.8	
	max	Nm	1	
	min	lbft	0.8	
	max	lbft	0.74	
Max number of wires simultaneously connectable	Ш	Nr.	2	
			_	





Conductor section				
Flexible w/o l	lug conductor section			0.75
		min	mm²	0.75
Florible alv.	ua conductor costion	max	mm²	2.5
Flexible C/W I	ug conductor section	min	mm²	1.5
		min max	mm²	2.5
Florible with	insulated spade lug conduc		111111	2.3
Flexible with	insulated spade lug conduc	min	mm²	1.5
		max	mm²	2.5
Power terminal protection according	to IEC/EN 60520	Παλ	111111	IP20 when wired
Mechanical features	10 1EO/EN 00329			ii 20 when whea
Operating position				
Operating position		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	182
Auxiliary contact characteristics			9	102
Type of contact				1 NO
Thermal current Ith			Α	10
IEC/EN 60947-5-1 designation			,,	A600 - Q600
Operating current AC15				71000 0000
Operating out one 700		230V	Α	3
		400V	A	1.9
		500V	A	1.4
Operating current DC12		300 V		1.7
Operating editent BO12		110V	Α	2.9
Operating current DC13		1100		2.9
Operating current DC13		24V	Α	2.9
		48V	A	1.4
		60V	A	1.2
		110V	A	0.6
		125V	A	0.55
		220V	A	0.3
		600V	A	0.1
Operations		000 V	A	0.1
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data			Cyclcs	300000
Performance level B10d according to	FN/ISO 13489-1			
i chamiliance level brod according to) LIV/100 10700-1	rated load	cycles	500000
		mechanical load	cycles cycles	2000000
Mirror contats according to IEC/EN 6	Λ9474-4-1	medianida idau	Cycles	Yes
EMC compatibility	10371 111 1			Yes
AC coil operating				1 00
Rated AC voltage at 50/60Hz			V	230
AC operating voltage			V	200
	oil powered at 50Hz			
01 30/00H2 C	pick-up			
	ρισκ-αρ	min	%Us	75
		max	%Us	115
	drop-out	IIIdX	/003	113
	urop-out			

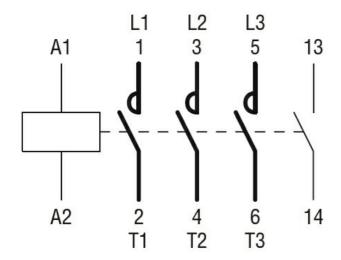




			min	%Us	20
			max	%Us	55
	of 50/60Hz coil pow				
		pick-up			
			min	%Us	80
		Lance of	max	%Us	115
		drop-out	min	%Us	20
			min max	%Us	55
AC average coil consu	imption at 20°C		IIIdx	7003	33
Ao average con consc	of 50/60Hz coil pow	vered at 50Hz			
	01 00/001 12 0011 pow	0100 01 001 12	in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil pow	rered at 60Hz			
	, , , , , , , , , , , , , , , , , , ,		in-rush	VA	25
			holding	VA	3
	of 60Hz coil powere	ed at 60Hz			
	•		in-rush	VA	30
			holding	VA	4
Dissipation at holding	≤20°C 50Hz			W	0.95
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us of					
	in AC	01 1 110			
		Closing NO			40
			min	ms ms	12 21
		Opening NO	max	ms	21
		Opening NO	min	ms	9
			max	ms	18
		Closing NC		•	. •
		3 · · · · · · · · · · · · · · · · · · ·	min	ms	17
			max	ms	26
		Opening NC			
			min	ms	7
			max	ms	17
	in DC				
		Closing NO			
			min	ms	18
		Omanie NO	max	ms	25
		Opening NO	!	m c	2
			min	ms ms	2
		Closing NC	max	ms	3
		Closing INC	min	ms	3
			max	ms	5
		Opening NC	HUA		-
		- F 3 · · · •	min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA)	for three-phase AC r	notor			
			at 480V	Α	7.6
			at 600V	Α	6.1

ENERGY AND AUTOMATION

Yielded mechanica	•			
	for single-phase AC motor			
		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				
30110101 00L	Contactor			
	Contactor	AC current	Α	20
Chart aircuit protoc	ation fuga. 600V	Ao caren		20
Short-circuit protec				
	High fault	Object of the first	1. 4	400
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
	uxiliary contacts according to UL			A600 - Q600
Ambient conditions	S			
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
	out and the second	min	°C	-60
		max	°C	+80
Max altitude		max	 	3000
Resistance & Prote	action		111	3000
	ection i			3
Pollution degree				3
Dimensions				
(0.17")	4.4 17") 8.6 (2.24")	(1.73")	(2	57
(v.17) (v.17	(1.97°) (1.97°) (1.97°) (1.97°) (1.97°) (1.97°)	3.74.2 ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕	(2.28") 5	
8.5 (0.33") (0.3 (0.33")	7.7 — 34.9 — 34.9 — (1.37")	3.2 (0.12'	")	RF9 7.6
8.5 (0.33")		(1.73")		89.2 (3.51") (0.30
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