



Product designation Power contactor Product type designation **BG09** Contact characteristics 3 Number of poles nr. Rated insulation voltage Ui IEC/EN ٧ 690 k۷ Rated impulse withstand voltage Uimp 6 Operational frequency Н 25 min Hz 400 max IEC Conventional free air thermal current Ith 20 Α 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 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 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 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	A	8
	75V	Α	5
	110V	A	4
	220V	A	<del>-</del>
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	220 V		
ied max current le in bd5-bd5 with br ≥ 15ms with 5 poles in series	<24\/	۸	10
	≤24V	A	
	48V	A	10
	75V	A	6
	110V	A	5
150 U.S. DOO DOE 311 L/D 4.45 311 4 1 1 3	220V	Α	0.8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series		_	
	≤24V	Α	10
	48V	Α	10
	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)		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			
5 12 13 22 422 121 121 121 131 14 15 15 15 15 15 15 15 15 15 15 15 15 15	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	Ibin	0.74
Tightening torque for coil terminal	Παλ	.0111	J.7 1
Tighterming torque for contentinual	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8
May number of wires cimultaneously connectable	max	Ibft	2
Max number of wires simultaneously connectable		nr.	۷



0 1 :				
Conductor section	<b>-</b>			
	Flexible w/o lug conductor section			0.75
		min	mm²	0.75
	Clavible abulum assistant assistant	max	mm²	2.5
	Flexible c/w lug conductor section	:	ma 2	4.5
		min	mm²	1.5
	Florible with inculated and delice and destance of the	max	mm²	2.5
	Flexible with insulated spade lug conductor section	:	mm²	1 5
		min	mm² mm²	1.5 2.5
Dower terminal protes	tion according to IEC/EN 60520	max	1111117	
Mechanical features	tion according to IEC/EN 60529			IP20 when wired
Operating position		normal		Vortical plan
		normal allowable		Vertical plan ±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	178
Auxiliary contact chara	acteristics			
Type of contact				1 NO
Thermal current Ith			Α	10
IEC/EN 60947-5-1 des				A600 - Q600
Operating current AC1	15			
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC1	12		•	
	40	110V	Α	2.9
Operating current DC1	13		_	
		24V	A	2.9
		48V	A	1.4
		60V	A	1.2
		110V	A	0.6
		125V	A	0.55
		220V	A	0.3
0		600V	Α	0.1
Operations				00000000
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data	0d			
Performance level B1	0d according to EN/ISO 13489-1			<b>50000</b>
		rated load	cycles	500000
N.C		chanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				Yes
AC coil operating	0/0011		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0.4
Rated AC voltage at 5	U/bUHZ		V	24
AC operating voltage	(50/001)			
	of 50/60Hz coil powered at 50Hz			
	pick-up	_	0.11	
		min	%Us	75
		max	%Us	115
	drop-out			



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			min	%Us	20
	_		max	%Us	55
	of 50/60Hz coil power				
		pick-up			
			min	%Us	80
			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	55
AC average coil consu	mption at 20°C				
	of 50/60Hz coil power	ered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil power	ered at 60Hz			_
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil powered	d 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 co	ontrol				
-	in AC				
		Closing NO			
		-	min	ms	12
			max	ms	21
			111007		
		Opening NO			
		Opening NO	min	ms	9
		Opening NO		ms ms	9 18
		Opening NO  Closing NC	min		
			min		
			min max	ms	18
			min max min	ms ms	18 17
		Closing NC	min max min	ms ms	18 17
		Closing NC	min max min max	ms ms ms	18 17 26
	in DC	Closing NC	min max min max min	ms ms ms	18 17 26 7
	in DC	Closing NC	min max min max min	ms ms ms	18 17 26 7
	in DC	Closing NC Opening NC	min max min max min	ms ms ms	18 17 26 7
	in DC	Closing NC Opening NC	min max min max min max	ms ms ms ms	18 17 26 7 17
	in DC	Closing NC Opening NC	min max min max min max	ms ms ms ms ms	18 17 26 7 17
	in DC	Closing NC Opening NC Closing NO	min max min max min max	ms ms ms ms ms	18 17 26 7 17
	in DC	Closing NC  Opening NC  Closing NO  Opening NO	min max min max min max	ms ms ms ms ms	18 17 26 7 17
	in DC	Closing NC Opening NC Closing NO	min max min max min max min max min max min max	ms ms ms ms ms	18 17 26 7 17 18 25 2
	in DC	Closing NC  Opening NC  Closing NO  Opening NO	min max min max min max min max min max min max	ms ms ms ms ms	18 17 26 7 17 18 25
	in DC	Closing NC  Opening NO  Closing NO  Opening NO  Closing NC	min max min max min max min max min max min max	ms ms ms ms ms ms ms	18 17 26 7 17 18 25 2
	in DC	Closing NC  Opening NC  Closing NO  Opening NO	min max	ms ms ms ms ms ms ms ms ms	18 17 26 7 17 18 25 2 3 3 5
	in DC	Closing NC  Opening NO  Closing NO  Opening NO  Closing NC	min max	ms ms ms ms ms ms ms ms ms	18 17 26 7 17 18 25 2 3 3 5
	in DC	Closing NC  Opening NO  Closing NO  Opening NO  Closing NC	min max	ms	18 17 26 7 17 18 25 2 3 3 5
UL technical data		Closing NC  Opening NO  Closing NO  Opening NO  Closing NC  Opening NC	min max	ms	18 17 26 7 17 18 25 2 3 3 5
UL technical data Full-load current (FLA)		Closing NC  Opening NO  Closing NO  Opening NO  Closing NC  Opening NC	min max	ms	18 17 26 7 17 18 25 2 3 3 5
		Closing NC  Opening NO  Closing NO  Opening NO  Closing NC  Opening NC	min max	ms	18 17 26 7 17 18 25 2 3 3 5
		Closing NC  Opening NO  Closing NO  Opening NO  Closing NC  Opening NC	min max	ms	18 17 26 7 17 18 25 2 3 3 5

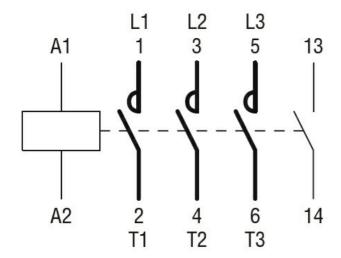


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Yielded mechanical	performance			
	for single-phase AC motor			
	5 1	110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
	for three phase //e motor	200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	nr HP	5 5
0		575/6007	ПР	ე
General USE	0			
	Contactor		_	
		AC current	Α	20
Short-circuit protection				
	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	iliary contacts according to UL	<u> </u>		A600 - Q600
Ambient conditions	,			
Temperature				
romporataro	Operating temperature			
	Operating temperature	min	°C	-50
		max	°C	+70
	Storage temperature	IIIax		+70
	Storage temperature		°C	00
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protec	tion			
Pollution degree				3
Dimensions				
4.4 (0.17") (0.17") (0.17") (0.17") (0.33") (0.33") (0.33") (0.33") (0.33")	(2.24") (2.24") (2.24")	44 (1.73") (1.73") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37")	(2.28")	RF9 -7.6 89.2 (3.51")
Wiring diagrams				



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## 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