





Product designation Power contactor Product type designation **BG09** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 k۷ Rated impulse withstand voltage Uimp 6 Operational frequency Нъ 25 min Hz 400 max IEC Conventional free air thermal current Ith 20 Α 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) 4 Rated operational power AC-3 (T≤55°C) 2.2 kW 230V 400V kW 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 3 Α 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 Α 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 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	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	A	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			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
<del>-</del>	max	Ibin	9
Tightening torque for coil terminal	_		
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9



		max	Ibin	9
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
		min	mm²	1.5
		max	mm²	2.5
Dower terminal prote	ation apparding to IEC/EN 60520			IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	178
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact cha	racteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 d	<u>-</u>			A600 - Q600
Operating current AC	215			
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DO	212			
		110V	Α	2.9
Operating current DC	213			
Operating current DC	213	24V	А	2.9
Operating current DC	213		A A	2.9 1.4
Operating current DC	213	24V		
Operating current DC	213	24V 48V	Α	1.4
Operating current DC	213	24V 48V 60V	A A	1.4 1.2
Operating current DC	213	24V 48V 60V 110V	A A A	1.4 1.2 0.6
Operating current DC	213	24V 48V 60V 110V 125V	A A A	1.4 1.2 0.6 0.55
	213	24V 48V 60V 110V 125V 220V	A A A A	1.4 1.2 0.6 0.55 0.3
Operations	213	24V 48V 60V 110V 125V 220V	A A A A	1.4 1.2 0.6 0.55 0.3
Operations Mechanical life	213	24V 48V 60V 110V 125V 220V	A A A A	1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life Electrical life	213	24V 48V 60V 110V 125V 220V	A A A A A cycles	1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life Electrical life Safety related data		24V 48V 60V 110V 125V 220V	A A A A A cycles	1.4 1.2 0.6 0.55 0.3 0.1
Operations Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A Cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operations Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A Cycles cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operations Mechanical life Electrical life Safety related data Performance level B	10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A Cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000
	10d according to EN/ISO 13489-1	24V 48V 60V 110V 125V 220V 600V	A A A A A Cycles cycles	1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000



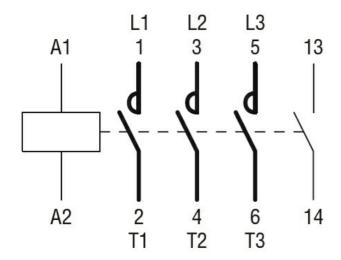


Rated AC voltage at	60Hz			V	460
AC operating voltag					
	of 60Hz coil powered at 60H				
	pick	-up		0/11-	75
			min max	%Us %Us	75 115
	drop	n-Out	Шах	7005	115
	αιορ	, Gut	min	%Us	20
			max	%Us	55
AC average coil cor	sumption at 20°C				
· ·	of 50/60Hz coil powered at 5	50Hz			
		in-	-rush	VA	30
		ho	lding	VA	4
	of 50/60Hz coil powered at 6				
			-rush	VA	25
			lding	VA	3
	of 60Hz coil powered at 60H		-rush	١/٨	30
			-rusn Iding	VA VA	30 4
Dissipation at holdin	 n <20°C 50Hz	no	iuiiig	W	0.95
Max cycles frequent				V V	0.00
Mechanical operatio	•			cycles/h	3600
Operating times					
Average time for Us	control				
_	in AC				
	Clos	sing NO			
			min	ms	12
			max	ms	21
	Ope	ning NO			
			min	ms	9
	Class	in a NC	max	ms	18
	Clos	ing NC	min	ms	17
			max	ms	26
	Ope	ning NC	max	1110	20
	- Ope	9 110	min	ms	7
			max	ms	17
	in DC				
	Clos	ing NO			
			min	ms	18
			max	ms	25
	Ope	ning NO			
			min	ms	2
	01	ing NC	max	ms	3
	Clos	sing NC	min	me	3
			max	ms ms	5
	One	ning NC	шах	1115	5
	Оре	9 110	min	ms	11
					17
JL technical data			max	ms	17
	A) for three-phase AC motor				17
UL technical data Full-load current (FL	A) for three-phase AC motor	at 4			7.6

Yielded mechanica				
	for single-phase AC motor			
		110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
	rot union princes it to motor	200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE				
	Contactor			
		AC current	Α	20
Short-circuit protec	tion fuse, 600V			
- · · · · · · · · · · · · · · · · · · ·	High fault			
	. 11311 14411	Short circuit current	kA	100
			A	30
		Fuse rating	А	
		Fuse class		J
	Standard fault		_	
		Short circuit current	kA	5
		Fuse rating	Α	30
		Fuse class		RK5
Contact rating of au	ixiliary contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
· · · · · · · · · · · · · · · · · · ·	Operating temperature			
	Operating temperature	min	°C	-50
			°C	
		max	C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Prote	ection			
Pollution degree				3
Dimensions				
(1.73") 44 (0.1	17") 8.6° - 57	(1.73") (0 <sup>h</sup> .6)		57 ——
(0.17")	(2.24")	0 0 5	(2	57 .24")
4	0 (2.24)		5	
0 0	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	066	(2.28")	
	(1.97") (2.28")		(2)	
*****		(3.71°) (3.71°) (3.71°) (4.60°) (5.71°) (5.71°)	. 6	
8.5	SE	34.9 3.2 (1.37") (0.12"		7
(0.33")	7 - 34.9 - 8") (1.37")	3.2 (1.37") (0.12"	")	RF9
8.5 (0.33")	a	P	1	76
8.5 (0.33")		44 (1.73")	_	89.2 (3.51") 7.6 (0.30"
		(1.73")		(3.51)
Wiring diagrams				

**ENERGY AND AUTOMATION** 

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 60HZ, 460VAC, 1NO AUXILIARY CONTACT



## 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