





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 230V kW 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	A	10
	110V	A	10
	220V	A	2
IFO	220 V	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	Α	8
	75V	A	5
	110V	A	4
150	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	A	10
	75V	A	6
	110V	A	5
	220V	Α	0,8
Short-time allowable current for 10s (IEC/EN60947-1)		A	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	A	72
	690V	A	72
Posietaneo por polo (avorago valuo)	090 v		
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
	max	Ibin	9
Tightening torque for coil terminal	11107		-
Tighterning torque for conficilitial	min	Nm	0.8
	min		
	max	Nm	1
	min	lbin	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		2	
		min	mm²	1.5
		max	mm²	2.5
Power terminal prote	ction according to IEC/EN 60529			IP20 when
	<u> </u>			properly wired
Mechanical features				
Operating position		normal		Vertical plan
		normal allowable		Vertical plan ±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight				180
Conductor section			g	100
Conductor Section	AWG/kcmil conductor section			
	AVVG/kcmii conductor section	may		12
Auxiliary contact char	ractoristics	max		12
Auxiliary Cortiact Criar	aciensiles			
Thermal current Ith			Δ	10
Thermal current Ith	esignation		A	10 A600 - O600
IEC/EN 60947-5-1 de	-		A	10 A600 - Q600
	-	230\/		A600 - Q600
IEC/EN 60947-5-1 de	-	230V	A	A600 - Q600 3
IEC/EN 60947-5-1 de	-	400V	A A	A600 - Q600 3 1.9
IEC/EN 60947-5-1 de Operating current AC	15		A	A600 - Q600 3
IEC/EN 60947-5-1 de	15	400V 500V	A A A	A600 - Q600 3 1.9 1.4
Operating current AC	15	400V	A A	A600 - Q600 3 1.9
IEC/EN 60947-5-1 de Operating current AC	15	400V 500V 110V	A A A	A600 - Q600 3 1.9 1.4 2.9
Operating current AC	15	400V 500V 110V 24V	A A A	A600 - Q600 3 1.9 1.4 2.9
Operating current DC	15	400V 500V 110V 24V 48V	A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4
Operating current DC	15	400V 500V 110V 24V 48V 60V	A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2
Operating current DC	15	400V 500V 110V 24V 48V 60V 110V	A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6
Operating current AC	15	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
Operating current AC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Operating current DC Operating current DC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life Electrical life	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life Electrical life Safety related data	212	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life Electrical life Safety related data	15	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operating current DC Operations Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operating current DC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	115 112 113 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000
Operating current DC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level BC Mirror contats accord	10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 500000 yes
Operating current DC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	115 112 113 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000



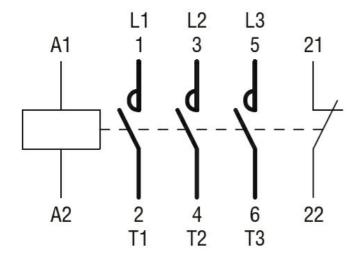


Rated AC voltage at	60Hz		V	24
AC operating voltage				
	of 60Hz coil powered at 60Hz			
	pick-up		0/11	
		min	%Us	75
	drop-out	max	%Us	115
	drop-out	min	%Us	20
		max	%Us	55
AC average coil con	sumption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	30
		holding	VA	4
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	25
	of 60Hz coil powered at 60Hz	holding	VA	3
	of 60Hz coil powered at 60Hz	in-rush	VA	30
		holding	VA VA	4
Dissipation at holdin	g ≤20°C 50Hz	noiding	W	0.95
Max cycles frequenc	-			0.00
Mechanical operation	•		cycles/h	3600
Operating times				
Average time for Us	control			
	in AC			
	Closing NO			40
		min	ms	12
	Opening NO	max	ms	21
	Opening NO	min	ms	9
		max	ms	18
	Closing NC			
	-	min	ms	17
		max	ms	26
	Opening NC			
		min	ms	7
	in DC	max	ms	17
	in DC Closing NO			
	Glosling NO	min	ms	18
		max	ms	25
	Opening NO	ax		
		min	ms	2
		max	ms	3
	Closing NC			
		min	ms	3
	On anti- a NO	max	ms	5
	Opening NC	min	me	11
		max	ms ms	17
UL technical data		IIIdx	1110	17
- 100 ii iiodi data	Δ) for three-phase ΔC motor			
Full-load current (FL	A) IOI LITICO PHASO AO ITIOLOI			
Full-load current (FL	Ay for three phase Ao motor	at 480V	Α	7.6



Yielded mechanica	I performance			
	for single-phase AC motor			
	5 1	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		3.3.33		
	Contactor			
	Comación	AC current	Α	20
Short-circuit protec	tion fuse 600V	, to carrent	- , ,	
onort circuit protec	High fault			
	riigiriauit	Short circuit current	kA	100
		Fuse rating	Α	30
	0. 1.16.1	Fuse class		J
	Standard fault			_
		Short circuit current	kA	5
		Fuse rating	Α	30
		Fuse class		RK5
	ixiliary 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	ection			
Pollution degree				3
Dimensions				
4.4	.4 17") \$.6 13 (2.24")	(1.73") (1.73") (1.73")	F (2	57
(0.17")	(2.24")		37	
			88	
	(1.97°) (2.28°)	2.2 1.1) 	(2.28")	
******		21 - aaaaa	6	
Ф н н Ф		349		
8.5 (0.33") (0.3	7 - 34.9 - 8") (1.37")	34.9 3.2 (0.12	")	RF9
8.5 (0.33")	- /			
8.5		44 (1.73")		89.2 (3.51") 7.6 (0.30")
(0.33")		(1.73")		(3.51")
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