





Product designation Power contactor Product type designation **BG09** Contact characteristics Nr. 3 Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 kV 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-1 (≤55°C) Α 0 AC-3 (≤440V ≤55°C) 9 Α AC-4 (400V) Α 4 Rated operational power AC-3 (T≤55°C) 230V kW 2.2 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 Α 3 220V Α IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series ≤24V Α 15 48V 14 Α 75V 9 Α 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	220 V			
120 max out on the middle-boo with E/N = 10m3 with 1 poles in series	≤24V	Α	7	
	48V	A		
	75V	A	6 2	
	110V	A	1	
150	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			-,-	
TEC MARK CANCER IN B CO B CO MARK EITH - TO ME MARK I POLICE IN COME	≤24V	Α	10	
	48V	A	10	
	75V	A	6	
	110V	A	5	
	220V			
Chart time allowable current for 100 (IEC/ENG0047.1)	220 V	A A	0,8 96	
Short-time allowable current for 10s (IEC/EN60947-1)		A	90	
Protection fuse	~O (IFO)	۸	00	
	gG (IEC)	A	20	
	aM (IEC)	A	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	lbin	9	
	max	Ibin	9	
Tightening torque for coil terminal	max	10111		
righterning torque for confictininal	min	Nm	0.8	
	max	Nm	1	
	min	Ibin	9	
	max	lbin	9	





May number of wires	simultaneously connectable		Nr.	2
Conductor section	simultaneously connectable		INI.	2
Conductor Section	AWG/Kcmil			
	7.17 G/1.011111	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	n		
		min	mm²	1.5
		max	mm²	2.5
Power terminal protect	ction according to IEC/EN 60529			IP20 when
Mechanical features				properly wired
Operating position				
Sporating position		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	180
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de				A600 - Q600
Operating current AC	15			
		230V	Α	3
		400V	A	1.9
On a ratio a accurrent DO	10	500V	Α	1.4
Operating current DC	12	110V	۸	2.0
Operating current DC	12	1100	Α	2.9
Operating current DC	15	24V	Α	2.9
		48V	A	1.4
		60V	A	1.2
		110V	A	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	0.1			
Performance level B1	0d according to EN/ISO 13489-1			500000
		rated load	cycles	500000
Mirror contata "		mechanical load	cycles	20000000
	ing to IEC/EN 609474-4-1			yes
EMC compatibility AC coil operating				yes
Rated AC voltage at 5	50/60Hz		V	24
Nation AO voltage at 3	70/ 001 1Z		V	- T





AC operating voltage					
	of 50/60Hz coil	powered at 50Hz			
		pick-up	•	0/11-	75
			min	%Us	75 115
		drop out	max	%Us	110
		drop-out	min	%Us	20
			max	%Us	55
	of 50/60Hz coil	powered at 60Hz	IIIax	/003	33
	01 30/00112 0011	pick-up			
		pick up	min	%Us	80
			max	%Us	115
		drop-out	max	7000	
		ж. ор. от.	min	%Us	20
			max	%Us	55
AC average coil cons	umption at 20°C				
J		powered at 50Hz			
	'	•	in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil	powered at 60Hz			
	·		in-rush	VA	25
			holding	VA	3
	of 60Hz coil pov	vered at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holding				W	0.95
Max cycles frequency					
Mechanical operation					0000
				cycles/h	3600
Operating times				cycles/h	3600
Operating times	control			cycles/h	3600
Operating times				cycles/h	3600
Operating times	control	Closing NO			
Operating times	control	Closing NO	min	ms	12
Operating times	control				
Operating times	control	Closing NO Opening NO	min max	ms ms	12 21
Operating times	control		min max min	ms ms ms	12 21 9
Operating times	control	Opening NO	min max	ms ms	12 21
Operating times	control		min max min max	ms ms ms	12 21 9 18
Operating times	control	Opening NO	min max min max min	ms ms ms ms	12 21 9 18
Operating times	control	Opening NO Closing NC	min max min max	ms ms ms	12 21 9 18
Operating times	control	Opening NO	min max min max min max	ms ms ms ms	12 21 9 18 17 26
Operating times	control	Opening NO Closing NC	min max min max min max min	ms ms ms ms ms	12 21 9 18 17 26
Operating times	control in AC	Opening NO Closing NC	min max min max min max	ms ms ms ms	12 21 9 18 17 26
Operating times	control	Opening NO Closing NC Opening NC	min max min max min max min	ms ms ms ms ms	12 21 9 18 17 26
Operating times	control in AC	Opening NO Closing NC	min max min max min max min max	ms ms ms ms ms	12 21 9 18 17 26 7
Operating times	control in AC	Opening NO Closing NC Opening NC	min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Operating times	control in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max	ms ms ms ms ms	12 21 9 18 17 26 7
Operating times	control in AC	Opening NO Closing NC Opening NC	min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Operating times	control in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max	ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Operating times	control in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Operating times	control in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Operating times Average time for Us o	control in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	min max	ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 18 25 2 3
Operating times	control in AC	Opening NO 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 ms	12 21 9 18 17 26 7 17

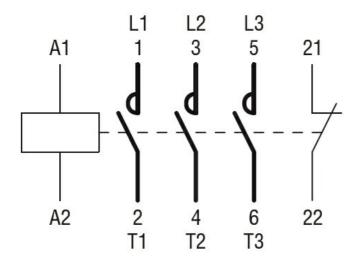




		min	ms	11
UL technical data		max	ms	17
) for three-phase AC motor			
r an road odrront (r Er	y for times prides for motor	at 480V	Α	7.6
		at 600V	Α	6.1
Yielded mechanical po	erformance			
•	for single-phase AC motor			
	.	110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
		200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE	_			
	Contactor		_	
	(000)/	AC current	A	20
Short-circuit protection				
	High fault	Ol and alter Manager		400
		Short circuit current	kA	100
		Fuse rating	Α	30
	Standard fault	Fuse class		J
	Standard fault	Short circuit current	kA	5
		Fuse rating	A	30
Contact rating of auxil	iary contacts according to UL	i use raung		A600 - Q600
Ambient conditions	iary contacts according to the			7000 Q000
Temperature				
	Operating temperature			
	operating temperature	min	°C	-50
		max	°C	+70
	Storage temperature			
	3	min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protecti	on			
Pollution degree				3
Dimensions				
4.4 (0.17") (0.17") (0.33") (0.33") (0.38")	(1.37")	3.2 (1.37") 3.2 (0.12)	(2.28")	89.2 (0.30")
8.5 (0.33")		44 —— (1.73")	7	89.2 (0.30") (3.51")
Wiring diagrams				

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 24VAC, 1NC 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