



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



Product designation Product type designation			Power contactor 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
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	20
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)	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
150	690V	kW	22
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	<0.417	۸	10
	≤24V	A	12
	48V 75V	A	10
	75V 110V	A A	4 3
	220V	_	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	220 V	Α	
TEC max current le in DCT with E/N = mis with 2 poles in series	≤24V	Α	15
	48V	A	14
	75V	A	9
	110V	A	8
	220V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	220 V		
120 max outlone to in DOT with LIVE title with a police in selice	≤24V	Α	16
	48V	A	16
	75V	A	10
	110V	A	10
	1100	73	. 0





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	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	A	10
	220V	A	2
IFO	2201	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	A	8
	75V	A	5
	110V	A	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		- , ,	0,0
The max current to in 500-500 with E/N = 10m3 with 4 poles in series	≤24V	Α	10
	48V		10
		A	
	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)	()	A	92
Breaking capacity at voltage			-
broaking outputity at voltage	4401/	۸	72
	440V	A	72
	500V	A	72
	690V	Α	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			
9 · · · · · · · · · · · · · · · · · · ·	min	Nm	0.8
	max	Nm	
			1
	min	lbin	9
	max	Ibin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9



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		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
Power terminal protect	ction according to IEC/EN 60529			IP20 when
Mechanical features	-			properly wired
Operating position				
Operating position		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	180
Auxiliary contact char	acteristics		9	
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - Q600
Operating current AC				
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	12			
		110V	Α	2.9
Operating current DC	13			
		24V	Α	2.9
		48V	Α	1.4
		60V	Α	1.2
		110V	Α	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				
Performance level B1	10d according to EN/ISO 13489-1			
		rated load	cycles	500000
		mechanical load	cycles	20000000
	ing to IEC/EN 609474-4-1			Yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5			V	24
AC operating voltage				

of 50/60Hz coil powered at 50Hz





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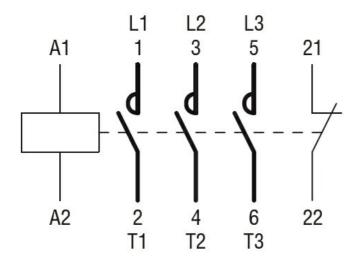
	pick-up		0/11	7-
		min	%Us	75
	drop out	max	%Us	115
	drop-out	min	%Us	20
		max	%Us %Us	55
	of 50/60Hz coil powered at 60Hz	max	7003	
	pick-up			
	F1711 SF	min	%Us	80
		max	%Us	115
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consu	mption at 20°C			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	30
		holding	VA	4
	of 50/60Hz coil powered at 60Hz		1.74	0.5
		in-rush	VA	25
	of COUT and naviored at COUT	holding	VA	3
	of 60Hz coil powered at 60Hz	ما مدرس من	١/٨	20
		in-rush holding	VA VA	30 4
Dissipation at holding	<20°C 50H-7	riolaling	W	0.95
Max cycles frequency	20 C 30HZ		VV	0.95
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co	ontrol			
	in AC			
	in AC	min	ms	12
	in AC Closing NO	min max	ms ms	12 21
	in AC	max	ms	21
	in AC Closing NO	max min	ms ms	9
	in AC Closing NO Opening NO	max	ms	21
	in AC Closing NO	max min max	ms ms ms	21918
	in AC Closing NO Opening NO	max min max min	ms ms ms	2191817
	in AC Closing NO Opening NO Closing NC	max min max	ms ms ms	21918
	in AC Closing NO Opening NO	max min max min max	ms ms ms ms	219181726
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	in AC Closing NO Opening NO Closing NC Opening NC Opening NC In DC Closing NO	max min max min max min max	ms ms ms ms ms ms	21 9 18 17 26 7 17
	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max min max	ms ms ms ms ms ms ms ms ms	21 9 18 17 26 7 17 18 25
	in AC Closing NO Opening NO Closing NC Opening NC Opening NC In DC Closing NO	max min max min max min max min max min max	ms	21 9 18 17 26 7 17 18 25
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	in AC Closing NO Opening NO Closing NC Opening NC Opening NC In DC Closing NO	max min max min max min max min max min max	ms	21 9 18 17 26 7 17 18 25 2 3
	in AC Closing NO Opening NO Closing NC Opening NC Opening NC In DC Closing NO Opening NO	max min	ms	21 9 18 17 26 7 17 18 25 2 3
	in AC Closing NO Opening NO Closing NC Opening NC in DC Closing NO Opening NO Closing NO Closing NO	max min max min max min max min max min max	ms	21 9 18 17 26 7 17 18 25 2 3
	in AC Closing NO Opening NO Closing NC Opening NC Opening NC In DC Closing NO Opening NO	max min max	ms	21 9 18 17 26 7 17 18 25 2 3 3 5
-	in AC Closing NO Opening NO Closing NC Opening NC in DC Closing NO Opening NO Closing NO Closing NO	max min	ms	21 9 18 17 26 7 17 18 25 2 3

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UL technical data				
Rated operational vol			V	600
Full-load current (FLA	A) for three-phase AC motor			
		at 480V	Α	7.6
		at 600V	Α	6.1
rielded mechanical p	performance			
·	for single-phase AC motor			
		110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
	р	200/208V	HP	2
		220/230V	HP	3
		460/480V	HP	5
		575/600V	HP	5
General USE		27 0,000 V		
Joneral OOL	Contactor			
	Contactor	AC current	Α	20
Short-circuit protection	on fuce 600V	AC current	Α	20
onort-circuit protectio				
	High fault	Chart singuit account	IαA	100
		Short circuit current	kΑ	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
		Fuse class		RK5
	liary contacts according to UL			A600 - Q600
Ambient conditions Temperature				
	Operating temperature			
	Operating temperature	min	°C	-50
		max	°C	+70
	Storage temperature	max		170
	Storage temperature	min	°C	-60
			°C	+80
Max altitude		max		3000
	da.		m	3000
Resistance & Protect	lion			2
Pollution degree				3
Dimensions				
4.4 (0.17") (0.17") (0.17") (0.17") (0.38") (0.33") (0.38")	(2.24") (2.24") (2.74")	44 (1.73") (1.73") (2.65) (1.37") (1.37") (1.37") (1.37") (1.37") (1.37")	(2.28")	57 .24") RF9
8.5 (0.33")		(1.73")	-	89.2 (3.51") (0.30
(0.00)		(1.70)		,,

ENERGY AND AUTOMATION

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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