



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 24VAC, 1NO AUXILIARY CONTACT



Product designation		Power contactor
Product type designation		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
Conventional free air thermal current Ith IEC/EN	A	20
Operational current le		20
•	۸	20
AC-1 (≤40°C)	A	20
AC-3 (≤440V ≤55°C)	A	9
AC-4 (400V)	Α	4
Rated operational power AC-1 (T≤40°C)		
230V	kW	8
400V	kW	14
500V	kW	16
690V	kW	22
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
Short-time allowable current for 10s (IEC/EN60947-1)	Α	96
Protection fuse		
gG (IEC)	Α	20
aM (IEC)	A	10
Making capacity (RMS value)		92
		92
Breaking capacity at voltage	۸	70
440V	A	72
500V	A	72
690V	A	72
Resistance per pole (average value)	mΩ	10
Power dissipation per pole (average value)		
Power dissipation pole (average value) Ith	W	4
AC3	W	0.81
Tightening torque for terminals		
min	Nm	0.8
max	Nm	1
min	lbft	0.59
max	lbft	0.74





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		min	Nm	0.8
		max	Nm	1
		min	lbft	0.8
		max	lbft	0.74
May number of wires	simultaneously connectable	max	nr.	2
Conductor section	Simultaneously connectable		111.	
Conductor section	414/0			
	AWG	_		
		min		18
		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 conduc			2.0
	Flexible with insulated space lug conduc	min	mm²	1.5
		max	mm²	2.5
	ction according to IEC/EN 60529			IP20 when wired
Auxiliary contact char	acteristics			
Type of contact				1 NO
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - Q600
Operational current le	_		Α	20
Operating current AC			- , ,	
Operating current AO	15	230V	۸	3
			A	
		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	1.1
				Screw / DIN rail
		110V	Α	35mm
		405)/	^	
		125V	A	0.3
		220V	A	0.1
		600V	Α	0.6
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-40
		max	°C	60
	Storage temperature		<u>='</u>	
	C.C. ago tomporataro	min	°C	-55
			°C	-55 70
NA1CC L.		max		
Max altitude			m	3000
Operational position				
		Operating position normal		Vertical plan
	O _I	perating position allowable		±30°
Mounting				Screw / DIN rail 35mm
Weight				0.178
vveigni			g	0.170



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Operations				
Mechanical life			Cycles	20000000
Electrical life			Cycles	500000
Safety related data				
Performance level B10	0d according to EN/ISO 13489-1			
		rated load	Cicli	500000
		mechanical load	Cicli	20000000
Mirror contats according	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	0.75
		max	%Us	1.15
	drop-out		0/11-	0.0
		min	%Us	0.2
	-	max	%Us	0.55
	of 50/60Hz coil powered at 60Hz			
	pick-up	min	%Us	0.8
		min	%Us %Us	0.6 1.15
	drop-out	max	/008	1.15
	urop-out	min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz	HIGA	7003	0.00
	pick-up			
	ριοίτ αρ	min	%Us	0.75
		max	%Us	1.15
	drop-out	THO A	7000	
	arop cat	min	%Us	0.2
		max	%Us	0.55
AC operating voltage				
, ,	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
		holding	VA	3
	of 60Hz coil powered at 60Hz			
		in-rush	VA	30
		holding	VA	4
Dissipation at holding :	≤20°C 50Hz		W	0.95
DC coil operating				
DC operating voltage				
Average coil consuption	on ≤20°C			
		in-rush	W	3.2
		holding	W	3.2
Max cycles frequency				
Mechanical operations			Cycles/h	3600
Operating times				
Average time for Us co				
	in AC			
	Closing NO			





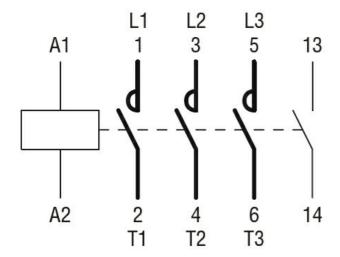
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	min	ms 12	
	max	ms 21	
	Opening NO		
	min	ms 9	
	max	ms 18	
	Closing NC		
	min	ms 17	
	max	ms 26	
	Opening NC		
	min	ms 7	
	max	ms 17	
UL technical data			
Full-load current (FLA) for three-phase AC mot	or		
•	at 480V	A 7.6	
	at 600V	A 6.1	
Yielded mechanical performance for			
for single-phase AC m	otor		
5 1	Yielded mechanical performance at 110/120V	hp 0.5	
	Yielded mechanical performance at 230V	hp 1.5	
for three-phase AC mo		•	-
•	Yielded mechanical performance at 200/208V	hp 2	
	Yielded mechanical performance at 220/230V	-	
	Yielded mechanical performance at 460/480V	•	
	Yielded mechanical performance at 575/600V		
Contact rating of auxiliary contacts according to		A600 -	Q600
General USE			
Contactor			
Comación	AC current	A 20	
Other features	, to building	,, 20	
Pollution degree		3	
Dimensions		Ü	
4.4 (0.17") (0.17") (0.33") (0.33") (0.33") (0.38") (1.37")	44 (1.73") (1.73") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37")		7.6 (0.30")

Wiring diagrams

ENERGY AND AUTOMATION

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Certifications and compliance

Certifications

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

Compliance

CCC

cULus

EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching