Three-pole contactor, IEC operating current le (AC3) = 9A, AC coil 50/60Hz, 230VAC, 1NO auxiliary **ENERGY AND AUTOMATION**



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
150 O	max	Hz	400
IEC Conventional free air thermal current Ith		Α	20
Operational current le	AC 4 (<40°C)	۸	20
	AC-1 (≤40°C) AC-3 (≤440V ≤55°C)	A A	20 9
	AC-3 (\$440V \$55 C) AC-4 (400V)	A	4
Rated operational power AC-3 (T≤55°C)	AO-4 (400V)		
Nated operational power AO-5 (1200 O)	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
	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	A	3
IFO many assembly in DOA with 1/D < 4 are with 0 males in paries	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	<041/	۸	4.5
	≤24V 48V	A	15
	46 V 75 V	A	14
	110V	A A	9 8
	220V	A	-
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	Z20 V		
120 max outlett to in 201 with 2/1 2 mile with 6 poice in series	≤24V	Α	16
	48V	A	16
	75V	Α	10
	110V	Α	10
	220V	Α	2
		-	-



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	≤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	A	-
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
TEO Max current le in Boo-Boo with E/N 3 Toms with 5 poles in series	≤24V	Α	10
	48V		10
	75V	A A	
	110V	A	6
	220V	A	5
IFO are a consent to in DO2 DO5 with 1/D < 45 are with 4 motor in parish	220 V	A	0,8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	40.41.4	•	4.0
	≤24V	Α	10
	48V	A	10
	75V	A	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)	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)		$m\Omega$	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	lbin	9
Tightening torque for coil terminal			
5 5 · · · · · · · · · · · · · · · · · ·	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Max number of wires simultaneously connectable	Παλ		
		Nr.	2



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Conductor section				
	AWG/Kcmil			4.0
		max		12
	Flexible w/o lug conductor section	min	mm²	0.75
		min	mm² mm²	0.75 2.5
		max	IIIIII-	2.5
	Flexible c/w lug conductor section	min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section	шах	111111	2.3
	r lexible with insulated space tog conductor section	min	mm²	1.5
		max	mm²	2.5
Power terminal protect	ction according to IEC/EN 60529	Παλ	111111	IP20 when wired
Mechanical features	ction according to IEC/EN 00329			ii 20 Wileii Wiled
Operating position				
Sporading position	no	rmal		Vertical plan
	allow			±30°
	anow	2210		Screw / DIN rail
Fixing				35mm
Weight			g	182
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara				
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - Q600
Operating current AC	•			
-		30V	Α	3
	4	00V	Α	1.9
	5	00V	Α	1.4
Operating current DC	12			
	1	10V	Α	2.9
Operating current DC	13			
		24V	Α	2.9
		48V	Α	1.4
		60V	Α	1.2
		10V	Α	0.6
		25V	Α	0.55
		20V	Α	0.3
	6	00V	Α	0.1
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
	rated		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 AC operating voltage	50/60Hz		V	230
,,,, en energine en relite en e				

of 50/60Hz coil powered at 50Hz

ENERGY AND AUTOMATION

Three-pole contactor, IEC operating current le (AC3) = 9A, AC coil 50/60Hz, 230VAC, 1NO auxiliary contact

		pick-up			
			min	%Us	75
			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	55
	of 50/60Hz coil power				
		pick-up			
			min	%Us	80
			max	%Us	115
		drop-out		0/11	
			min	%Us	20
A O			max	%Us	55
AC average coil consu					
	of 50/60Hz coil power	ed at 50HZ	مام رس من	١/٨	20
			in-rush	VA	30
	of FO/GOLLT acil masses	ad at 60U=	holding	VA	4
	of 50/60Hz coil power	eu al ou⊓Z	in much	VA	25
			in-rush	VA VA	25 3
	of 60Hz coil powered a	at 60Hz	holding	VA	J
	or ourse con powered a	วเ บบก่	in-rush	VA	30
			holding	VA VA	4
Dissipation at holding	<20°C 50H 7		Holding	W	0.95
Max cycles frequency	320 C 301 IZ			VV	0.93
Mechanical operation				cycles/h	3600
Operating times				0,0.00,	
-					
Average time for Us co	ontrol				
Average time for Us co	ontrol in AC				
Average time for Us of		Closing NO			
Average time for Us o		Closing NO	min	ms	12
Average time for Us o		Closing NO	min max	ms ms	12 21
Average time for Us o		Closing NO Opening NO			
Average time for Us o		-			219
Average time for Us o		Opening NO	max	ms	21
Average time for Us o		-	max min max	ms ms ms	21 9 18
Average time for Us o		Opening NO	max min max min	ms ms ms	2191817
Average time for Us o		Opening NO Closing NC	max min max	ms ms ms	21 9 18
Average time for Us o		Opening NO	max min max min max	ms ms ms ms	21 9 18 17 26
Average time for Us o		Opening NO Closing NC	max min max min max min max	ms ms ms ms	2191817267
Average time for Us o	in AC	Opening NO Closing NC	max min max min max	ms ms ms ms	21 9 18 17 26
Average time for Us o		Opening NO Closing NC Opening NC	max min max min max min max	ms ms ms ms	2191817267
Average time for Us o	in AC	Opening NO Closing NC	max min max min max min max	ms ms ms ms ms	21 9 18 17 26 7 17
Average time for Us of	in AC	Opening NO Closing NC Opening NC	max min max min max min max min max	ms ms ms ms ms	21 9 18 17 26 7 17
Average time for Us of	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max	ms ms ms ms ms	21 9 18 17 26 7 17
Average time for Us of	in AC	Opening NO Closing NC Opening NC	max min max min max min max min max	ms ms ms ms ms ms	21 9 18 17 26 7 17
Average time for Us of	in AC	Opening NO Closing NC Opening NC Closing NO	min max	ms ms ms ms ms ms ms ms ms	21 9 18 17 26 7 17 18 25
Average time for Us of	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	max min max min max min max min max	ms ms ms ms ms ms	21 9 18 17 26 7 17
Average time for Us of	in AC	Opening NO Closing NC Opening NC Closing NO	min max	ms ms ms ms ms ms ms ms ms	21 9 18 17 26 7 17 18 25 2 3
Average time for Us of	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	min max	ms	21 9 18 17 26 7 17 18 25 2 3
Average time for Us of	in AC	Opening NO Closing NC Opening NO Closing NO Opening NO Closing NO Closing NC	min max	ms ms ms ms ms ms ms ms ms	21 9 18 17 26 7 17 18 25 2 3
Average time for Us of	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	min max	ms	21 9 18 17 26 7 17 18 25 2 3
Average time for Us of	in AC	Opening NO Closing NC Opening NO Closing NO Opening NO Closing NO Closing NC	min max	ms	21 9 18 17 26 7 17 18 25 2 3 3

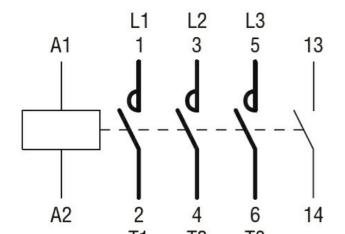
ENERGY AND AUTOMATION

Three-pole contactor, IEC operating current le (AC3) = 9A, AC coil 50/60Hz, 230VAC, 1NO auxiliary contact

UL technical data				
Full-load current (FLA) for three-phase A	AC motor			
, ,		at 480V	Α	7.6
		at 600V	Α	6.1
Yielded mechanical performance				
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				
		AC current	А	20
Short-circuit protection fuse, 600V				
High fault		<u> </u>		400
		Short circuit current		100
		Fuse rating	Α	30
0, 1, 1, 1,		Fuse class		J
Standard fault				F
		Short circuit current		5 30
Contact rating of auxiliary contacts agos	rding to III	Fuse rating	A	A600 - Q600
Contact rating of auxiliary contacts accordance Conditions	iding to OL			A600 - Q600
Temperature				
Operating temp	oraturo			
Operating temp	Ciataic	min	°C	-50
		max	°C	+70
Storage temper	ature	max		.,,
etorago tompo:	atu. o	min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
Dimensions				
(1.73") (0.17")		(1.73") ON (6)		
4.4	— 57 — -		(2	57 .24")
(0.17")	(2.24")	0 0 5	37	
(1.127°) (1.127°) (1.128°) (1.128°) (1.128°) (1.128°)	(2.24")	94.2 (3.71") (3.71") (3.71")	58 (2.28") 5	
(0.33") (0.33") (0.38") (1.37") (0.38")	(2.24")	34.9 (1.37") (0.10)	(2.28") 5	RF9
● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	(2.24")	94.2 (3.71") (3.71") (3.71")	58 (2.28") 5	

ENERGY AND AUTOMATION

Three-pole contactor, IEC operating current le (AC3) = 9A, AC coil 50/60Hz, 230VAC, 1NO auxiliary



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