



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 230VAC, 1NC AUXILIARY CONTACT



Product designation Product type designation		•	Power contactor BG09
Contact characteristics			D000
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	0
	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
	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	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	Α	10
	220V	Α	2





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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	2201	- , ,	_
The max deficit to in 500 500 with 510 = 10mb with 1 poles in series	≤24V	Α	7
	48V	A	6
	75V	A	2
	110V		1
		A	
150 DOO DOO 111 L/D 145 111 0 1 1 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	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	A	0,8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	220 V		0,0
TEC max current le in DC3-DC3 with E/K ≥ 13ms with 4 poles in series	<24)/	۸	10
	≤24V	A	10
	48V	A	10
	75V	Α	6
	110V	Α	5
	220V	A	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)		Α	92
Breaking capacity at voltage			
	440V	Α	72
	500V	Α	72
	690V	Α	72
Resistance per pole (average value)	300 v	mΩ	10
		11122	10
Power dissipation per pole (average value)	141	147	4
	Ith	W	4
	AC3	W	0.81
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	lbin	0.74
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8
	max	lbft	0.74
	111624		



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Max number of wires simultaneously connectable		nr.	2
Conductor section			
Flexible w/o lug conductor s	section		
	min	mm²	0.75
	max	mm²	2.5
Flexible c/w lug conductor s			
	min	mm²	1.5
	max	mm²	2.5
Flexible with insulated spad	_	•	
	min	mm²	1.5
D	max	mm²	2.5
Power terminal protection according to IEC/EN 605	29		IP20 when wired
Mechanical features			
Operating position			Vertical plan
	normal allowable		Vertical plan ±30°
	allowable		Screw / DIN rail
Fixing			35mm
Weight		g	182
Auxiliary contact characteristics		9	102
Type of contact			1 NC
Thermal current Ith		Α	10
IEC/EN 60947-5-1 designation			A600 - Q600
Operating current AC15			
- Ferenand comments	230V	Α	3
	400V	Α	1.9
	500V	Α	1.4
Operating current DC12			
,	110V	Α	2.9
Operating current DC13			
	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 B10d according to EN/ISO 1348	39-1		
	rated load	cycles	500000
	mechanical load	cycles	20000000
Mirror contats according to IEC/EN 609474-4-1			yes
EMC compatibility			Yes
AC coil operating			
Rated AC voltage at 50/60Hz, 60Hz			
	min	V	12
	max	V	575
AC operating voltage			

pick-up

of 50/60Hz coil powered at 50Hz





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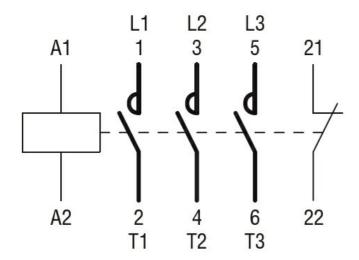
		min	%Us	75
		max	%Us	115
	drop-out			
		min	%Us	20
		max	%Us	55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	115
	drop-out			
		min	%Us	20
		max	%Us	55
AC operating voltage a				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	30
	(TO (OOL)	holding	VA	4
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	25
		holding	VA	3
	of 60Hz coil powered at 60Hz		1.74	0.0
		in-rush	VA	30
		holding	VA	4
Dissipation at holding:	≨20°C 50Hz		W	0.95
Max cycles frequency			ovelee/b	2600
Mechanical operation Operating times			cycles/h	3000
	nntrol			
Average time for Us co				
Average time for US CC	in AC			
Average time for US CC		min	ms	12
Average time for US CC	in AC	min max	ms ms	12 21
Average time for US CC	in AC Closing NO	min max	ms ms	12 21
Average time for US CC	in AC	max	ms	21
Average time for US CC	in AC Closing NO	max min	ms ms	9
Average time for US CC	in AC Closing NO Opening NO	max	ms	21
Average time for US CC	in AC Closing NO	max min max	ms ms ms	21 9 18
Average time for Os co	in AC Closing NO Opening NO	max min	ms ms ms	2191817
Average time for US CC	in AC Closing NO Opening NO Closing NC	max min max min	ms ms ms	21 9 18
Average time for US CC	in AC Closing NO Opening NO	max min max min	ms ms ms	2191817
Average time for 0s co	in AC Closing NO Opening NO Closing NC	max min max min max	ms ms ms ms	21 9 18 17 26
Average time for US CC	in AC Closing NO Opening NO Closing NC	max min max min max min	ms ms ms ms ms	21 9 18 17 26
Average time for 0s co	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms	21 9 18 17 26
Average time for 0s co	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms	21 9 18 17 26
Average time for Os co	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max	ms ms ms ms ms	21 9 18 17 26 7 17
Average time for Os co	in AC Closing NO Opening NO Closing NC Opening NC	max min max min max min max	ms ms ms ms ms ms ms ms	21 9 18 17 26 7 17
Average time for Os co	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 ms ms	21 9 18 17 26 7 17
Average time for Os co	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	ms ms ms ms ms ms ms ms ms	21 9 18 17 26 7 17
Average time for Os co	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
Average time for Os co	in AC Closing NO Opening NO Closing NC Opening NC Opening NC In DC Closing NO Opening NO	max min max min max min max min max min max	ms	21 9 18 17 26 7 17 18 25 2 3
Average time for Os co	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
Average time for Os co	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
Average time for Os co	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
UL technical data	in AC Closing NO Opening NO Closing NC Opening NC In DC Closing NO Opening NO Closing NO Closing NO	max min max	ms	21 9 18 17 26 7 17 18 25 2 3 3 5

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 230VAC, 1NC AUXILIARY CONTACT

Full-load current (FLA) for three-phase 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	
Contact rating of auxiliary contacts according to UL			A600 - Q600	
General USE				
Contactor				
	AC current	Α	20	
Ambient conditions				
Temperature				
Operating temperature				
	min	°C	-40	
	max	°C	60	
Storage temperature				
	min	°C	-55	
	max	°C	70	
Max altitude		m	3000	
Resistance & Protection				
Pollution degree			3	
Dimensions				
4.4 (0.17") (0.17") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.33") (0.30") (0.30") (0.30") (0.30")				

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 230VAC, 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