



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 9A, AC COIL 50/60HZ, 230VAC, 1NC 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
IEC Conventional free air thermal current Ith		A	20
Operational current le	10.4 (11000)		
	AC-1 (≤40°C)	A	20
	AC-1 (≤55°C)	A	0
	AC-3 (≤440V ≤55°C)	A	9
Detail an author of a constant of the constant	AC-4 (400V)	A	4
Rated operational power AC-3 (T≤55°C)	2201/	LAAZ	2.2
	230V	kW	2.2
	400V	kW	4
	415V 440V	kW kW	4.3 4.5
	500V	kW	4.5 5
	690V	kW	5
Rated operational power AC-1 (T≤40°C)	090 V	KVV	<u> </u>
Nated operational power AOT (1240 O)	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	A	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	A	1
150 DOO DOO WALE WAS A STATE OF THE STATE OF	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	A	72
	690V	A	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
	111024		





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Max number of wires	simultaneously connectable		Nr.	2
Conductor section				_ -
	Flexible w/o lug conductor section			
	3	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	r section		
		min	mm²	1.5
		max	mm²	2.5
Power terminal protect	ction according to IEC/EN 60529			IP20 when wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	182
Auxiliary contact chara	acteristics			
Type of contact				1 NC
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de				A600 - Q600
Operating current AC	15			
		230V	Α	3
		400V	Α	1.9
		500V	A	1.4
Operating current DC	12			
		110V	A	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	0.1			
Performance level B1	0d according to EN/ISO 13489-1			500000
		rated load	cycles	500000
B.4*		mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			Yes
EMC compatibility				Yes
AC coil operating	20/0011			200
Rated AC voltage at 5	ou/oumz		V	230
AC operating voltage	(FO/0011			
	of 50/60Hz coil powered at 50Hz			
	pick-up		0/17	75
		min	%Us	75 445
		max	%Us	115





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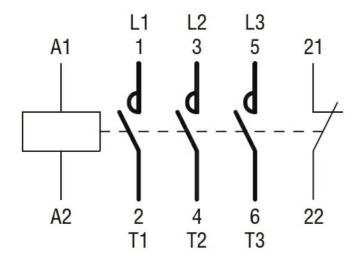
		drop-out			
		drop-out	min	%Us	20
			max	%Us	55
	of 50/60Hz coil power	red at 60Hz	Пах	7000	
	01 00/00112 0011 powol	pick-up			
		pion up	min	%Us	80
			max	%Us	115
		drop-out			
		·	min	%Us	20
			max	%Us	55
AC average coil consu	mption at 20°C				
	of 50/60Hz coil power	red at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil power	red 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
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC				
		Closing NO			
			_		
			min	ms	12
			min max	ms ms	12 21
		Opening NO	max	ms	21
		Opening NO	max min	ms ms	9
			max	ms	21
		Opening NO Closing NC	max min max	ms ms ms	21918
			max min max min	ms ms ms	2191817
		Closing NC	max min max	ms ms ms	21918
			max min max min max	ms ms ms ms	219181726
		Closing NC	max min max min max min	ms ms ms ms	2191817267
	in DC	Closing NC	max min max min max	ms ms ms ms	219181726
	in DC	Closing NC Opening NC	max min max min max min	ms ms ms ms	2191817267
	in DC	Closing NC	max min max min max min max	ms ms ms ms ms	21 9 18 17 26 7 17
	in DC	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
	in DC	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
	in DC	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
	in DC	Closing NC Opening NC Closing NO	max min max min max min max min max	ms ms ms ms ms ms ms ms	21 9 18 17 26 7 17
	in DC	Closing NC Opening NC Closing NO	max min max min max min max min max min max min	ms ms ms ms ms ms ms ms ms	21 9 18 17 26 7 17 18 25 2
	in DC	Closing NC Opening NC Closing NO Opening NO	max min max min max min max min max min max min	ms ms ms ms ms ms ms ms ms	21 9 18 17 26 7 17 18 25 2
	in DC	Closing NC Opening NC Closing NO Opening NO	max min max min max min max min max min max min max	ms	21 9 18 17 26 7 17 18 25 2 3
	in DC	Closing NC Opening NC Closing NO Opening NO	max min	ms	21 9 18 17 26 7 17 18 25 2 3
	in DC	Closing NC Opening NO Closing NO Opening NO Closing NC	max min	ms	21 9 18 17 26 7 17 18 25 2 3
	in DC	Closing NC Opening NO Closing NO Opening NO Closing NC	max min max min max min max min max min max min max min max	ms	21 9 18 17 26 7 17 18 25 2 3 3 5
UL technical data	in DC	Closing NC Opening NO Closing NO Opening NO Closing NC	max min	ms m	21 9 18 17 26 7 17 18 25 2 3 3 5
UL technical data Full-load current (FLA)		Closing NC Opening NO Closing NO Opening NO Closing NC Opening NC	max min	ms m	21 9 18 17 26 7 17 18 25 2 3 3 5
		Closing NC Opening NO Closing NO Opening NO Closing NC Opening NC	max min	ms m	21 9 18 17 26 7 17 18 25 2 3 3 5

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	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	• • • • • • • • • • • • • • • • • • • •		0.0	
<u> </u>	AC current	Α	20	
Short-circuit protection fuse, 600V				
High fault	0		400	
	Short circuit current	kA	100	
	Fuse rating	Α	30	
0. 1. 16. 16	Fuse class		J	
Standard fault			_	
	Short circuit current	kA	5	
Outset asting of smillions contacts according to LII	Fuse rating	Α	30	0000
Contact rating of auxiliary contacts according to UL Ambient conditions			A600 -	- Q600
Temperature Operating temperature				
Operating temperature	min	°C	-50	
	min max	°C	-30 +70	
Storage temperature	IIIdx		+10	
Storage temperature	min	°C	-60	
	max	°C	+80	
Max altitude	max	m	3000	
Resistance & Protection		111	3000	
Pollution degree			3	
Dimensions				
4.4 (0.17") (0.17") (0.17") (0.17") (0.38") (1.37") (0.38") (1.37")	3.2 (1.37") (0.12'	(2.28")	57 .24") RE9	7.6 (0.30")
(0.33")	44————————————————————————————————————	-	89.2 (3.51")	- (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

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching