



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



Product designation			Auxiliary
Draduat type decignation			contactor
Product type designation Contact characteristics			BG09
			2
Number of poles		nr.	3
Rated insulation voltage Ui		V	690
Rated impulse withstand voltage Uir	mp	kV	6
Operating frequency			
	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal curren	t ith	Α	20
Operating current			_
	Operational current AC3 (≤440V ≤55°C)	Α	9
	Operational current AC4 (400V)	Α	4
Short-time allowable current for 10s	s (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			
	Breaking capacity 440V	Α	72
	Breaking capacity 500V	Α	72
	Breaking capacity 690V	Α	72
Resistance per pole (average value)	mΩ	10
Power dissipation per pole (average	e 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
Tightening torque for coil terminal			
- · ·	min	Nm	0.8
	max	Nm	1
	min	lbft	0.59
	max	lbft	0.74
max number of wires simultaneously		nr.	2
Conductor section	•		
AWG			
	min		18
	max		12
Flexible w/o	b lug conductor section		. -
1 Ioxidio W/C	min	mm²	0.75
	max	mm²	2.5
	TIMA		•





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	Flexible c/w lug conductor section			_
		min	mm²	1.5
		max	mm²	2.5
	Flexible with insulated spade lug conductor section			
	The state of the s	min	mm²	1.5
		max	mm²	2.5
Power terminal protect	tion according to IEC/EN 60529			IP20
Auxiliary contact chara				0
Type of contact				1 NA
Thermal current Ith			Α	10
IEC/EN 60947-5-1 des	signation			A600
Ambient conditions	Signation			7,000
Temperature				
remperature	Operating temperature			
	Operating temperature	min	°C	-40
		min	°C	
	Storage temperature	max		60
	Storage temperature		°C	E E
		min	°C °C	-55 70
Maria del Carta		max		
Max altitude			m	3,000
Operating position				
		normal		Vertical plan
		allowable		±30°
Mounting				Screw / DIN rail
				35mm
Weight			g	0.18
Operations				
•			<u> </u>	
Mechanical life			Cycles	20,000,000
Mechanical life Electrical life			Cycles Cycles	20,000,000 500000
Mechanical life Electrical life Safety related data				500000
Mechanical life Electrical life Safety related data Mirror contats according	ng to IEC/EN 609474-4-1			500000 Yes
Mechanical life Electrical life Safety related data Mirror contats according EMC compatibility	ng to IEC/EN 609474-4-1			500000
Mechanical life Electrical life Safety related data Mirror contats according	ng to IEC/EN 609474-4-1			500000 Yes
Mechanical life Electrical life Safety related data Mirror contats according EMC compatibility				500000 Yes
Mechanical life Electrical life Safety related data Mirror contats accordine EMC compatibility AC coil operating		min		500000 Yes
Mechanical life Electrical life Safety related data Mirror contats accordine EMC compatibility AC coil operating		min max	Cycles	Yes Yes
Mechanical life Electrical life Safety related data Mirror contats accordine EMC compatibility AC coil operating			Cycles	500000 Yes Yes
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5			Cycles	500000 Yes Yes
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	0/60Hz, 60Hz		Cycles	500000 Yes Yes
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	0/60Hz, 60Hz of 50/60Hz coil powered at 50Hz		Cycles	500000 Yes Yes
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	0/60Hz, 60Hz of 50/60Hz coil powered at 50Hz	max	V V	500000 Yes Yes 12 575
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	0/60Hz, 60Hz of 50/60Hz coil powered at 50Hz	max	V V	500000 Yes Yes 12 575
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	0/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	max	V V	500000 Yes Yes 12 575
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	0/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	max min max	V V V	75 115
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	0/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	max min max min	V V V *Us %Us	500000 Yes Yes 12 575 75 115
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	V V V *Us %Us	500000 Yes Yes 12 575 75 115
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	max min max min	V V V *Us %Us	500000 Yes Yes 12 575 75 115
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min max	V V V %Us %Us %Us	500000 Yes Yes 12 575 75 115 20 55
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	min max min max	V V V *Us *Us *Us	500000 Yes Yes 12 575 75 115 20 55
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	min max min max min max	V V V *Us *Us *Us	500000 Yes Yes Yes 12 575 75 115 20 55 80 115
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	min max min max min max min max	V V V W S WUS WUS WUS WUS WUS WUS	500000 Yes Yes Yes 12 575 75 115 20 55 80 115 20
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min max	V V V *Us *Us *Us	500000 Yes Yes Yes 12 575 75 115 20 55 80 115
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out drop-out	min max min max min max min max	V V V W S WUS WUS WUS WUS WUS WUS	500000 Yes Yes Yes 12 575 75 115 20 55 80 115 20
Mechanical life Electrical life Safety related data Mirror contats accordin EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min max min max	V V V W S WUS WUS WUS WUS WUS WUS	500000 Yes Yes Yes 12 575 75 115 20 55 80 115 20





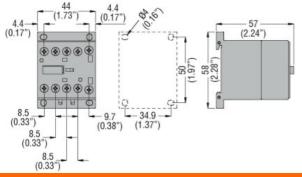
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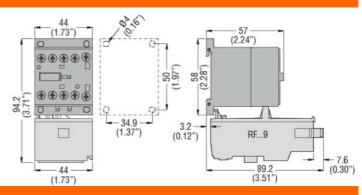
			max	%Us	115
		drop-out			
		•	min	%Us	20
			max	%Us	55
AC operating voltage				,,,,,	
710 operating voltage	of 50/60Hz coil po	owered at 50Hz			
	01 30/00112 COII pc	owered at 50Hz	in-rush	VA	30
	. (50/0011 '1		holding	VA	4
	of 50/60Hz coil po	owered at 60Hz			
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil power	ered at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holding :	≤20°C 50Hz			W	0.95
DC coil operating					
DC rated control voltage	ge				
	•		min	V	6
			max	V	250
DC aparating valtage			IIIax	v	230
DC operating voltage	adala a				
	pick-up			0/11	75
			min	%Us	75
			max	%Us	115
	drop-out				
			min	%Us	10
			max	%Us	20
Average coil consuption	on ≤20°C				
					0.0
			in-rush	W	3.2
					3.2 3.2
Max cycles frequency			in-rush holding	W	3.2
Max cycles frequency Mechanical operations			holding	W	3.2
Mechanical operations			holding		3.2
Mechanical operations Operating times			holding	W	3.2
Mechanical operations	ontrol		holding	W	3.2
Mechanical operations Operating times		Olasia a NO	holding	W	3.2
Mechanical operations Operating times	ontrol	Closing NO	holding	W Cycles/h	3,600
Mechanical operations Operating times	ontrol	Closing NO	holding	W Cycles/h ms	3,600
Mechanical operations Operating times	ontrol	-	holding	W Cycles/h	3,600
Mechanical operations Operating times	ontrol	Closing NO Opening NO	holding min max	W Cycles/h ms ms	3.2 3,600 12 21
Mechanical operations Operating times	ontrol	-	holding	W Cycles/h ms ms	3.2 3,600 12 21
Mechanical operations Operating times	ontrol	Opening NO	holding min max	W Cycles/h ms ms	3.2 3,600 12 21
Mechanical operations Operating times	ontrol	-	holding min max min	W Cycles/h ms ms	3.2 3,600 12 21
Mechanical operations Operating times	ontrol	Opening NO	holding min max min	W Cycles/h ms ms	3.2 3,600 12 21
Mechanical operations Operating times	ontrol	Opening NO	min max min max	W Cycles/h ms ms ms	3.2 3,600 12 21 9 18
Mechanical operations Operating times	ontrol	Opening NO Closing NC	min max min max	W Cycles/h ms ms ms ms	3.2 3,600 12 21 9 18
Mechanical operations Operating times	ontrol	Opening NO	min max min max min max	ms ms ms ms ms	3.2 3,600 12 21 9 18 17 26
Mechanical operations Operating times	ontrol	Opening NO Closing NC	min max min max min max	W Cycles/h ms ms ms ms ms ms	3.2 3,600 12 21 9 18 17 26 7
Mechanical operations Operating times	ontrol in AC	Opening NO Closing NC	min max min max min max	ms ms ms ms ms	3.2 3,600 12 21 9 18 17 26
Mechanical operations Operating times	ontrol	Opening NO Closing NC Opening NC	min max min max min max	W Cycles/h ms ms ms ms ms ms	3.2 3,600 12 21 9 18 17 26 7
Mechanical operations Operating times	ontrol in AC	Opening NO Closing NC	min max min max min max min max	ms ms ms ms ms ms	3.2 3,600 12 21 9 18 17 26 7 17
Mechanical operations Operating times	ontrol in AC	Opening NO Closing NC Opening NC	min max min max min max min max	W Cycles/h ms ms ms ms ms ms ms ms	3.2 3,600 12 21 9 18 17 26 7 17
Mechanical operations Operating times	ontrol in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max	ms ms ms ms ms ms	3.2 3,600 12 21 9 18 17 26 7 17
Mechanical operations Operating times	ontrol in AC	Opening NO Closing NC Opening NC	min max min max min max min max min max	W Cycles/h ms ms ms ms ms ms ms ms ms	3.2 3,600 12 21 9 18 17 26 7 17
Mechanical operations Operating times	ontrol in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max min max	W Cycles/h ms	3.2 3,600 12 21 9 18 17 26 7 17
Mechanical operations Operating times	ontrol in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	min max min max min max min max min max	W Cycles/h ms ms ms ms ms ms ms ms ms	3.2 3,600 12 21 9 18 17 26 7 17
Mechanical operations Operating times	ontrol in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max min max	W Cycles/h ms	3.2 3,600 12 21 9 18 17 26 7 17



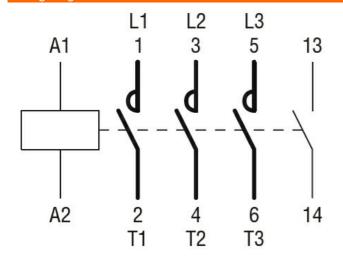
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	min	200.0	2
	min	ms	3
	max	ms	5
Opening NC			
	min	ms	11
	max	ms	17
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	Α	7.6
	at 600V	Α	6.1
Yielded mechanical performance			
for single-phase AC motor			
	at 110/120V	hp	0.5
	at 230V	hp	1.5
for three-phase AC motor			
	at 200/208V	hp	2
	at 220/230V	hp	3
	at 460/480V	hp	5
	at 575/600V	hp	5
Dimensions			





Wiring diagrams



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



11BG0910A024

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CCC		
cULus		
EAC		

ETIM 6 classification

EC000066 - Power contactor, AC switching