



Product designation Product type designation		•	Power contactor 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		Α	20
Operational current le			
	AC-1 (≤40°C)	Α	20
	AC-1 (≤55°C)	Α	18
	AC-1 (≤70°C)	Α	15
	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	A	
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
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			
	≤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	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	Α	0.8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
·	≤24V	Α	10
	48V	Α	10
	75V	Α	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)	Α	10
Making capacity (RMS value)	()	Α	92
Breaking capacity at voltage			<u> </u>
g cop according	440V	Α	72
	500V	Α	72
	690V	Α	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ith	W	4
	AC3	W	0.81
Tightening torque for terminals	7.00		
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.59
	max	Ibin	0.74
Tightening torque for coil terminal	HIGA	15111	V.1 1
Tighterming torque for contentinual	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8
	111111	.510	0.0



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	max	lbft	0.74
Max number of wires simultaneously connectable		nr.	2
Conductor section			
Flexible w/o lug conductor section			
	min	mm²	0.75
Fig. 11 In advantage of the control	max	mm²	2.5
Flexible c/w lug conductor section	min	mm²	1.5
	min max	mm² mm²	2.5
Flexible with insulated spade lug conductor section	Шах	111111	2.5
Tiexible with insulated space by conductor section	min	mm²	1.5
	max	mm²	2.5
Power terminal protection according to IEC/EN 60529			IP20 when wired
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw / DIN rail
			35mm
Weight		g	220
Auxiliary contact characteristics			
Type of contact			1 NO
Thermal current Ith		Α	10
IEC/EN 60947-5-1 designation			A600 - Q600
Operating current AC15	0001/	۸	0
	230V	A	3
	400V 500V	A	1.9 1.4
Operating current DC12	300 V	A	1.4
Operating current DC12	110V	Α	2.9
Operating current DC13	1100		2.3
operating out on 2010	24V	Α	2.9
	48V	A	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 13489-1	ا د دا اد دا	_,	F00000
maa	rated load	cycles	500000
	hanical load	cycles	20000000
Mirror contats according to IEC/EN 609474-4-1 EMC compatibility			yes Yes
DC coil operating			res
DC rated control voltage		V	12
DC operating voltage		v	12
pick-up			
ριοίν αφ	min	%Us	75
	max	%Us	115

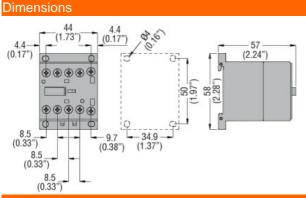


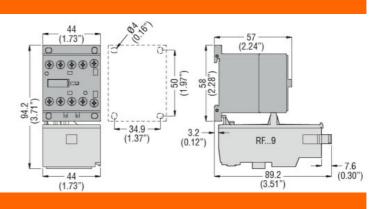
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	drop-out		min	%Us	10
			max	%Us	25
Average coil consumpti	ion ≤20°C			,,,,,	
			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times	. ( )				
Average time for Us cor					
	in AC	Closing NO			
		Closing NO	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
	· . DO		max	ms	17
	in DC	Clasing NO			
		Closing NO	min	ms	18
			max	ms	25
		Opening NO	παλ	1113	20
		Oponing 110	min	ms	2
			max	ms	3
		Closing NC			
			min	ms	3
			max	ms	5
		Opening NC			
			min	ms	11
III. Good Stock Lago			max	ms	17
UL technical data	for three phase A	O matar			
Full-load current (FLA)	ior unee-priase A	O ITIOIOI	at 480V	٨	7.6
			at 480V	A A	6.1
Yielded mechanical per	formance		at 000 V		0.1
o.aoa moonamoa por	for single-phase	AC motor			
	21 211 gro price00		110/120V	HP	0.5
			230V	HP	1.5
	for three-phase A	AC motor			
			200/208V	HP	2
			220/230V	HP	3
			460/480V	HP	5
			575/600V	HP	5
General USE	•				
	Contactor		40	^	20
Short circuit protection	fuco 600V		AC current	A	20
Short-circuit protection	High fault				
	i ligii iault				

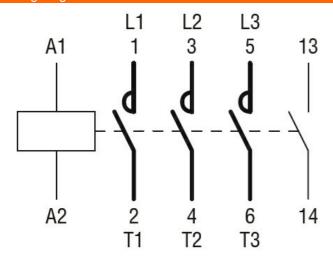


	Short circuit current	kA	100
	Fuse rating	Α	30
	Fuse class		J
Standard fault			
	Short circuit current	kA	5
	Fuse rating	Α	30
Contact rating of auxiliary contacts according to UL			A600 - Q600
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	+70
Storage temperature			
	min	°C	-60
	max	°C	+80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3





## Wiring diagrams



## Certifications and compliance

## Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

UL 60947-1

UL 60947-4-1

## Certificates



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CCC			
cULus	_	_	
EAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching