



Product designation			Power contactor
Product type designation			BG12
Contact characteristics			
Number of poles		nr.	3
Rated insulation voltage Ui		V	690
Rated impulse withstand voltage Uimp		kV	6
Operating frequency		IX V	0
Operating nequency	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith	Operational frequency max	A	20
		A	20
Operating current			00
	Operational current AC1 (≤40°C)	A	20
	Operational current AC3 (≤440V ≤55°C)	A	12
	Operational current AC4 (400V)	A	4.8
Rated operational power AC1 (T≤40°C)			
	230V	kW	8
	400V	kW	14
	500V	kW	16
	690V	kW	22
Rated operational power AC3A (T≤55°C)			
	Rated operational power AC3 (T≤55°C) 230		3.2
	Rated operational power AC3 (T≤55°C) 400		57
	Rated operational power AC3 (T≤55°C) 415		6.2
	Rated operational power AC3 (T≤55°C) 440		5.5
	Rated operational power AC3 (T≤55°C) 500		5
	Rated operational power AC3 (T≤55°C) 690)V kW	5
Short-time allowable current for 10s (IEC/EN	60947-1)	Α	96
Protection fuse			
	gG (IEC)	А	20
	aM (IEC)	А	16
Making capacity (RMS value)		А	120
Breaking capacity at voltage			
-	Breaking capacity 440V	А	96
	Breaking capacity 500V	А	72
	Breaking capacity 690V	А	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Power dissipation pole (average value) Ith	W	4
	AC3	W	1.44
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.59
	max	lbft	0.74
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Tightening torque for coil terminal



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min Nm 0.8 max Nm 1 lbft 0.8 min 0.74 max lbft max number of wires simultaneously connectable 2 nr. Conductor section AWG min 18 12 max Flexible w/o lug conductor section min mm² 0.75 mm² 2.5 max Flexible c/w lug conductor section 1.5 mm² min max mm² 2.5 Flexible with insulated spade lug conductor section mm² 1.5 min max mm² 2.5 Power terminal protection according to IEC/EN 60529 IP20 when wired Auxiliary contact characteristics 1 NO Type of contact Thermal current Ith А 10 IEC/EN 60947-5-1 designation A600 - Q600 Operational current AC1 (≤40°C) А 20 **Operating current AC15** А 3 230V 400V А 1.9 500V А 1.4 Operating current DC12 110V А 2.9 **Operating current DC13** 24V А 2.9 48V А 1.4 60V А 1.1 Screw / DIN rail 110V А 35mm 125V А 0.3 220V А 0.1 600V А 0.6 Ambient conditions Temperature Operating temperature °C -40 min °C 60 max Storage temperature °C -55 min °C 70 max Max altitude m 3000 Operating position Vertical plan normal ±30° allowable Screw / DIN rail Mounting 35mm Weight 0.179 g

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Operations				
Mechanical life			Cycles	20000000
Electrical life			Cycles	500000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	Cicli	500000
		mechanical load	Cicli	20000000
Mirror contats accordi	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	0.75
		max	%Us	1.15
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	0.8
		max	%Us	1.15
	drop-out			
		min	%Us	0.2
		max	%Us	0.55
	of 60Hz coil powered at 60Hz			
	, pick-up			
		min	%Us	0.75
		max	%Us	1.15
	drop-out			-
	p - z	min	%Us	0.2
		max	%Us	0.55
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	30
		holding	VA	4
	of 50/60Hz coil powered at 60Hz	noiding	• • •	· .
		in-rush	VA	25
		holding	VA VA	3
	of 60Hz coil powered at 60Hz	noiding	v/ (~
		in-rush	VA	30
		holding	VA VA	4
Dissipation at holding	<20°C 50Hz	noiding	W	0.95
DC coil operating			vv	0.30
DC rated control voltage	Je		17	490
		max	V	480
DC operating voltage				
Average coil consuption	on ≤20°C			
		in-rush	W	3.2
		holding	W	3.2
Max cycles frequency				
Mechanical operations			Cycles/h	3600
Operating times				
Average time for Us co	ontrol			

11BG1210A110 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

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in AC			
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
	max	ms	17
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	t 480V	А	11
	t 600V	Α	11
Yielded mechanical performance			
for single-phase AC motor			
at 110)/120V	hp	0.5
a	t 230V	hp	1.5
for three-phase AC motor			
at 200)/208V	hp	3
at 220)/230V	hp	3
at 460)/480V	hp	7.5
	5/600V	hp	10
Contact rating of auxiliary contacts according to UL			A600 - Q600
General USE			
Contactor			
	current	А	20
Other features			
Pollution degree			3
Dimensions			
$\begin{array}{c} 4.4 \\ (0.17') \\ (0.17') \\ (0.17') \\ (2.24'') \\ (2.24'') \\ (2.24'') \\ (2.24'') \\ (2.24'') \\ (2.24'') \\ (2.24'') \\ (2.24'') \\ (2.24'') \\ (3.17'') \\ ($		5 (2.2	24")

58 (2.28")

e

8.5 (0.33")

8.5

8.5 (0.33")

Wiring diagrams

0

9.7 - 34.9 -(0.38") (1.37") 58 (2.28")

貦

RF...9

89.2 -(3.51") _

320

3.2 -(0.12")

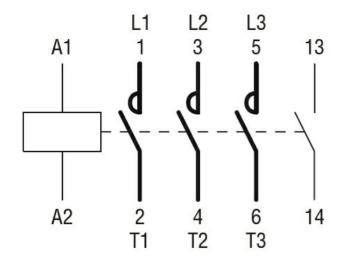
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____ 44 ____ (1.73") 10

- 34.9 --(1.37")

94.2 (3.71")





Certifications and compliance

Certifications

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	
	CCC
	cULus
	EAC
ETHAO HANNEL CONTRACT	

ETIM 6 classification

EC000066 - Power contactor, AC switching