



Product designation Power contactor Product type designation **BG12** Contact characteristics 3 Number of poles nr. Rated insulation voltage Ui V 690 Rated impulse withstand voltage Uimp kV 6 **Operating frequency** Operational frequency min Hz 25 Operational frequency max Hz 400 Conventional free air thermal current Ith 20 А Operating current Operational current AC1 (≤40°C) А 20 Operational current AC3 (≤440V ≤55°C) А 12 Operational current AC4 (400V) А 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) 230V kW 3.2 Rated operational power AC3 (T≤55°C) 400V kW 57 Rated operational power AC3 (T≤55°C) 415V kW 6.2 Rated operational power AC3 (T≤55°C) 440V kW 5.5 Rated operational power AC3 (T≤55°C) 500V kW 5 Rated operational power AC3 (T≤55°C) 690V kW 5 Short-time allowable current for 10s (IEC/EN60947-1) 96 А Protection fuse gG (IEC) 20 А aM (IEC) А 16 Making capacity (RMS value) А 120 Breaking capacity at voltage Breaking capacity 440V А 96 Breaking capacity 500V 72 А 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 W 1.44 AC3 Tightening torque for terminals min Nm 0.8

Tightening torque for coil terminal

max

min max Nm

lbft

lbft

1

0.59

0.74



11BG1210A024 THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 24VAC, 1NO AUXILIARY CONTACT

Weight			g	0.18
				35mm
Mounting				Screw / DIN rail
		allowable		±30°
		normal		Vertical plan
Operating position				
Max altitude		Παλ	 	3000
		min max	°C	-55 70
	Storage temperature	min	°C	-55
	Storage temperature	max	°C	60
		min	°C	-40
	Operating temperature	<u>.</u>	~ ~	40
Temperature				
Ambient conditions				
		600V	А	0.6
		220V	А	0.1
		125V	А	0.3
		110V	A	35mm
				Screw / DIN rail
		48V 60V	A	1.4
		24V 48V	A A	2.9 1.4
Operating current DC	513	0414	^	2.0
On another the second second	240	110V	A	2.9
Operating current DC	212			
-		500V	A	1.4
		400V	А	1.9
		230V	А	3
Operating current AC	215			
Operational current A	AC1 (≤40°C)		А	20
IEC/EN 60947-5-1 de	esignation			A600 - Q600
Thermal current Ith			А	10
Type of contact				1 NO
Auxiliary contact chai				
Power terminal prote	ction according to IEC/EN 60529	Παλ		IP20 when wire
		max	mm²	2.5
	Flexible with insulated spade lug conductor section	min	mm²	1.5
	Elevible with inculated enode lug conductor acction	max	mm²	2.5
		min	mm²	1.5
	Flexible c/w lug conductor section	<u>.</u>	2	
		max	mm²	2.5
		min	mm²	0.75
	Flexible w/o lug conductor section			
		max		12
		min		18
	AWG			
Conductor section				2
max number of wires	simultaneously connectable	Παλ	nr.	2
		min max	Ibri	0.8 0.74
		max	Nm Ibft	1 0.8
		min	Nm	0.8

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Operations				
Mechanical life			Cycles	2000000
Electrical life			Cycles	500000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	Cicli	500000
		mechanical load	Cicli	2000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating AC operating voltage				
AC operating voltage	of 50/60Hz coil powered at 50Hz			
	pick-up			
	ριοις αρ	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		0/11-	
		min	%Us %Us	0.2
	of 60Hz coil powered at 60Hz	max	%US	0.55
	pick-up			
	ρισκ-αρ	min	%Us	0.75
		max	%Us	1.15
	drop-out		,	
		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			
		in-rush	VA	25
		holding	VA	3
	of 60Hz coil powered at 60Hz	in-rush	VA	30
		holding	VA VA	4
Dissipation at holding	<20°C 50Hz	noiding	W	0.95
DC coil operating				
DC rated control volta	ge			
	<u> </u>	max	V	480
DC operating voltage				
Average coil consuptie	on ≤20°C			
		in-rush	W	3.2
		holding	W	3.2
Max cycles frequency				
Mechanical operations	3		Cycles/h	3600
Operating times				
Average time for Us c	ontrol			

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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
JL technical data				
ull-load current (FLA) for three-phase A	C motor			
		at 480V	А	11
		at 600V	А	11
ielded 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	3
		at 220/230V	hp	3
		at 460/480V	hp	7.5
		at 575/600V	hp	10
Contact rating of auxiliary contacts accord	ding to UL			A600 - Q600
General USE				
Contactor				
		AC current	А	20
Other features				
Pollution degree				3
Dimensions				
44 4.4		11 (2)		
(1.73") (0.17")	- 57	(1.73") 0 ⁵ ,50		57

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비비 0 Q

____ 44 ____ (1.73")

94.2 (3.71")

4.4-(0.17")

8.5 (0.33"

8.5

8.5 (0.33")

Wiring diagrams

9.7 (0.38")

- 34.9 (1.37")

____ 57 ____ (2.24")

58 (2.28")

— 57 — (2.24")

RF...9

89.2 -(3.51")

-7.6 (0.30")

58

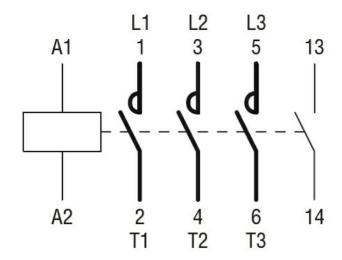
3.2 — (0.12")

J.

320

- 34.9 -(1.37")





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