





Product designation Power contactor Product type designation **BG12** Contact characteristics 3 Nr. Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 k۷ Rated impulse withstand voltage Uimp 6 Operational frequency Нъ 25 min Hz 400 max IEC Conventional free air thermal current Ith 20 Α Operational current le AC-1 (=40°C) Α 20 AC-1 (=55°C) Α 0 AC-3 (=440V =55°C) Α 12 AC-4 (400V) Α 4.8 Rated operational power AC-3 (T=55°C) 230V kW 3.2 400V kW 5.7 415V kW 6.2 440V kW 5.5 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 Α 12 =24V 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 9 Α 110V Α 8 220V _ 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 2





IEC max current le in DC1 with L/R = 1ms with 4 poles in series			
	=24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	Α	_
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	<u>-</u>
IEC max current le in DC3-DC5 with L/R = 15ms with 2 poles in series			
120 max out one to in 200 200 man are a forme with 2 poloo in conce	=24V	Α	8
	48V	A	8
	75V	A	5
	110V	A	4
	220V	A	4 _
IEC may current to in DC2 DC5 with L/D = 45mg with 2 polog in series	2201	^	-
IEC max current le in DC3-DC5 with L/R = 15ms with 3 poles in series	0417	۸	10
	=24V	A	10
	48V	A	10
	75V	A	6
	110V	A	5
	220V	Α	0,8
IEC max current le in DC3-DC5 with L/R = 15ms with 4 poles in series			
	=24V	Α	_
	48V	Α	_
	75V	Α	_
	110V	Α	_
	220V	Α	_
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	Α	20
	aM (IEC)	Α	16
Making capacity (RMS value)		Α	120
Breaking capacity at voltage			
• -	440V	Α	96
	500V	Α	72
	690V	Α	72
Resistance per pole (average value)		m?	10
Power dissipation per pole (average value)			
	lth	W	4
	AC3	W	1.44
Tightening torque for terminals	7.00	• •	
rightening torque for terminate	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
		lbin	9
Tightoning targue for coil terminal	max	ווטוו	3
Tightening torque for coil terminal		N I.a.:	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9



simultaneously connectable		Nr.	2
•			
AWG/Kcmil			
	max		12
Flexible w/o lug conductor section			
	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 section			
			1.5
	max	mm²	2.5
ction according to IEC/EN 60529			IP20 when wired
	normal		Vertical plan
			Vertical plan ±30°
	allowable		Screw / DIN rail
			35mm
		g	180
AWG/kcmil conductor section			
	max		12
acteristics			
		Α	10
			A600 - Q600
15			
		Α	3
		_	1.9
	5007	Α	1.4
12	440\/	٨	0.0
40	1100	Α	2.9
13	24\/	٨	2.9
			1.4
			1.2
			0.6
			0.55
	220V	A	0.3
	600V	Α	0.1
		cycles	20000000
		cycles	500000
10d according to EN/ISO 13489-1			
-	rated load	cycles	500000
mech	rated load anical load	cycles cycles	20000000
-		•	20000000 yes
mech		•	20000000
mech		•	20000000 yes
	AWG/Kcmil Flexible w/o lug conductor section Flexible c/w lug conductor section Flexible with insulated spade lug conductor section ction according to IEC/EN 60529 AWG/kcmil conductor section	AWG/Kcmil max Flexible w/o lug conductor section Flexible c/w lug conductor section min max Flexible with insulated spade lug conductor section min max Flexible with insulated spade lug conductor section min max stion according to IEC/EN 60529 AWG/kcmil conductor section max acteristics assignation 15 230V 400V 500V 110V 13 24V 48V 60V 1110V 125V 220V	AWG/Kcmil





	of 60Hz coil po	wered at 60Hz			
	01 001 12 con po	pick-up			
		pion up	min	%Us	75
			max	%Us	115
		drop-out		,,,,,	
		a. op 0 a.	min	%Us	20
			max	%Us	55
AC average coil cons	sumption at 20°C				
3		powered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil	powered at 60Hz	<u> </u>		
		•	in-rush	VA	25
			holding	VA	3
	of 60Hz coil po	wered at 60Hz	<u> </u>		
	•		in-rush	VA	30
			holding	VA	4
Dissipation at holding	j =20°C 50Hz			W	0.95
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us	control				
Ü	in AC				
		Closing NO			
		S .	min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
			max	ms	18
		Closing NC			
		G	min	ms	17
			max	ms	26
		Opening NC			
			min	ms	7
			max	ms	17
	in DC				
		Closing NO			
		-	min	ms	18
			max	ms	25
		Opening NO			
			min	ms	2
			max	ms	3
		Closing NC			
			min	ms	3
			max	ms	5
		Opening NC			
			min	ms	11
			max	ms	17
JL technical data					
	A) for three-phase	AC motor			
			-+ 400\/	۸	11
Full-load current (FLA			at 480V	Α	11
			at 480V at 600V	A	11

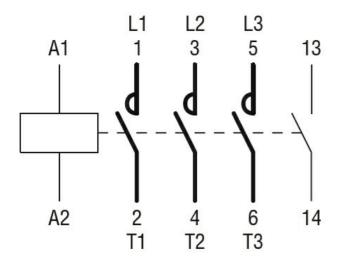
for single-phase AC motor



		110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor			
	•	200/208V	HP	3
		220/230V	HP	3
		460/480V	HP	7.5
		575/600V	HP	10
General USE		373/0007	I IF	10
General USE	0			
	Contactor			
		AC current	Α	20
Short-circuit protect				
	High fault			
		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 au	ixiliary contacts according to UL	1 doe rating		A600 - Q600
Ambient conditions				A000 - Q000
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Prote	ection			
Pollution degree				3
Dimensions				
Diffictionorio				
4.4 (0.17") (0.1 (0.17") (0.3") (0.3") (0.3") (0.33") (0.33")	4.7") 57 (2.24") (2.24") (3.37") (1.37")	44 (1.73") (0.12") 44 (1.37") (0.12") (0.12")	(2.28")	89.2 (3.51")
Wiring diagrams				

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 60HZ, 120VAC, 1NO 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