



Product designation Power contactor Product type designation **BG12** Contact characteristics Nr. 3 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 18 AC-1 (≤70°C) Α 15 AC-3 (≤440V ≤55°C) Α 12 AC-4 (400V) 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 ≤24V Α 12 48V Α 10 75V Α 4 110V 3 Α 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 Α 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 10



	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	_
	48V	A	_
	75V	A	_
	110V	A	_
			_
	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	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
The max sarront to in 200 200 with 210 = 10mb with 2 polos in conto	≤24V	Α	8
	48V	A	
			8
	75V	A	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	A	0,8
IEC may current to in DC2 DC5 with L/D < 15mg with 4 poles in series	220 V		0,0
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	2041 /	^	
	≤24V	A	_
	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)	aw (ILO)	A	120
			120
Breaking capacity at voltage	,	_	
	440V	Α	96
	500V	Α	72
	690V	Α	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
, , , ,	lth	W	4
	AC-3	W	1.44
Tightening torque for terminals	7.0 0	V V	
rightoning torque for terminals	:-	Nima	Λ 0
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
	max	Ibin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	9
			-



		max	Ibin	9
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	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		2	
		min	mm²	1.5
		max	mm²	2.5
Power terminal prote	ction according to IEC/EN 60529			IP20 when
	•			properly wired
Mechanical features				
Operating position		normal		Vertical slas
		normal allowable		Vertical plan ±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight				187
Conductor section			g	107
Conductor Section	AWG/kcmil conductor section			
	AVVG/kcmii conductor section	may		12
Auxiliary contact char	ractoristics	max		12
Auxiliary Cortiact Criar	acteriones			
Thermal current Ith			Δ	10
Thermal current Ith	esignation		A	10 A600 - O600
IEC/EN 60947-5-1 de	-		A	10 A600 - Q600
	-	2301/		A600 - Q600
IEC/EN 60947-5-1 de	-	230V	A	A600 - Q600 3
IEC/EN 60947-5-1 de	-	400V	A A	A600 - Q600 3 1.9
IEC/EN 60947-5-1 de Operating current AC	15		A	A600 - Q600 3
IEC/EN 60947-5-1 de	15	400V 500V	A A A	A600 - Q600 3 1.9 1.4
Operating current AC	15	400V	A A	A600 - Q600 3 1.9
IEC/EN 60947-5-1 de Operating current AC	15	400V 500V 110V	A A A	A600 - Q600 3 1.9 1.4 2.9
Operating current AC	15	400V 500V 110V 24V	A A A	A600 - Q600 3 1.9 1.4 2.9
Operating current AC	15	400V 500V 110V 24V 48V	A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4
Operating current AC	15	400V 500V 110V 24V 48V 60V	A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2
Operating current AC	15	400V 500V 110V 24V 48V 60V 110V	A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6
Operating current AC	15	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
Operating current AC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3
Operating current DC Operating current DC Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V	A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55
Operating current DC	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life Electrical life	15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life Electrical life Safety related data	212	400V 500V 110V 24V 48V 60V 110V 125V 220V	A A A A A A A Cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1
Operating current DC Operations Mechanical life Electrical life Safety related data	15	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operating current DC Operations Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000
Operating current DC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	115 112 113 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000
Operating current DC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level BC Mirror contats accord	10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000 500000 yes
Operating current DC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B	115 112 113 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V 600V	A A A A A A A A Cycles cycles	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4 1.2 0.6 0.55 0.3 0.1 20000000 500000 500000





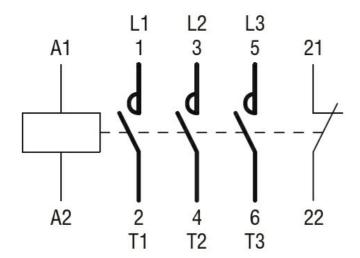
AC operating voltage of 60Hz coil powered at 60Hz pick-up min	Rated AC voltage at 60	Hz		V	220
Pick-up	AC operating voltage				
March Mar					
Max Wus 115 Max Mus 20 Max Wus 55		pick-up			
A					
Min			max	%Us	115
C average coil consumption at 20°C of 50/60Hz coil powered at 50Hz in-rush VA 30 holding VA 4		drop-out		0/11	
AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz In-rush VA 30 holding VA 4					
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 4 in-rush VA 30 in-rush VA 4 in-rush VA 30 in-rush VA 4 in-rush VA 30 in-rush VA 30 in-rush VA 4 in-rush VA 30 in-rush VA 30 in-rush VA 4 in-rush VA 30 in-rush VA 4 in-rush VA Vales in-rush VA Vales in-rush VA Vales in-rush VA Vales i			max	%Us	55
In-rush VA 30 Noldring VA 4	C average coll consu				
Molding VA 4		of 50/60Hz coil powered at 50Hz	:	١/٨	20
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 4 20issipation at holding ≤20°C 50Hz W 0.95 4ax cycles frequency 5ax cycles frequ					
In-rush NA 25 Noldring VA 3 3		-f 50/001	nolaing	VA	4
Molding VA 3 3 3 3 3 3 3 3 3		of 50/60Hz coil powered at 60Hz	:	١/٨	25
of 60Hz coil powered at 60Hz in-rush VA 30 holding VA 4 20issipation at holding ≤20°C 50Hz W 0.95 Max cycles frequency Mechanical operation cycles/h 3600 Deperating times Vocating times Vocating times Vocating time Vocating					
In-rush holding		of COLLE and newared at COLLE	noiding	VA	ა
Molding VA 4		or ounz coil powered at ounz	in ruch	١/٨	30
Sissipation at holding ≤20°C 50Hz W 0.95					
Max cycles frequency Mechanical operation cycles/h 3600 Operating times Closing NO min ms 12 Max ms 21 Opening NO min ms 18 Closing NC min ms 17 Max ms 17 in DC Closing NO min ms 18 Closing NO min ms 18 Max ms 25 Opening NC min ms 3 Max ms 3 Closing NC min ms 3 Max ms 3 Closing NC min ms 3 Max ms 5 Opening NC min ms 3 min ms 3					



Yielded mechanica	l performance			
	for single-phase AC motor			
	<u> </u>	110/120V	HP	0.5
		230V	HP	1.5
	for three-phase AC motor	2001		1.0
	ioi tillee-pilase AC Illotoi	200/2081/	UD	2
		200/208V	HP	3
		220/230V	HP	3
		460/480V	HP	7.5
		575/600V	HP	10
General USE				
	Contactor			
		AC current	Α	20
Short-circuit protec	tion fuse 600V			
Jiloit-circuit protec				
	High fault	Object of the Maria	1. 4	400
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	30
		Fuse class		RK5
Contact rating of a	uxiliary contacts according to UL	1 400 01400		A600 - Q600
Ambient conditions				7000 Q000
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
	5 1	min	°C	-60
		max	°C	+80
Max altitude		Пах		3000
	ation.		m	3000
Resistance & Prote	ection			
Pollution degree				3
Dimensions				
(1.73") (0.	4	11 00 00		
4.4 (1.73") (0.	17")	(1.73") O ^N .(6)		57 .24")
(0.17")	(2.24")	0 0 5	8 (2	.24)
*****	[¹ / ₂			
	50 (1.97") 58 (2.28")	1 2 2 2 2 2	(2.28")	
***	(2) (1) (2)	2(3	
		45. O H H O O C		
0.5	7 - 349		-	
(0.33")	7 - 34.9 - 8") (1.37")	(1.37") 3.2 (0.12") 3.2	")	RF9
8.5 (0.33")			L	
8.5 (0.33")		(1.73")	_	89.2 (3.51")
		(1.73")		(3.51")
Wiring diagrams				

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 60HZ, 220VAC, 1NC 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