



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 corios	220 V		0,0
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	<b>2041</b> /	^	
	≤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
	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
	<u> </u>			properly wired
Mechanical features				
Operating position		normal		Vertical slas
		normal allowable		Vertical plan ±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight				184
Conductor section			g	104
Conductor Section	AWG/kcmil conductor section			
	AVVG/kcmii conductor section	may		12
Auxiliary contact char	actoristics	max		12
Auxiliary Cortiact Criar	aciensiles			
Thermal current Ith			Δ	10
Thermal current Ith	esignation		A	10 A600 - O600
IEC/EN 60947-5-1 de	<del>-</del>		A	10 A600 - Q600
	<del>-</del>	2301/		A600 - Q600
IEC/EN 60947-5-1 de	<del>-</del>	230V	A	A600 - Q600 3
IEC/EN 60947-5-1 de	<del>-</del>	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 DC	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





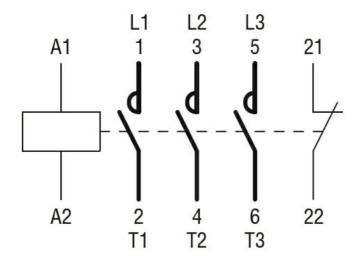
Rated AC voltage at 6	0Hz			V	230
AC operating voltage	( 001 1 11				
	of 60Hz coil powered				
		pick-up	min	0/116	75
			min	%Us %Us	75
		drop-out	max	%US	115
		urop-out	min	%Us	20
			max	%Us	55
AC average coil cons	umption at 20°C		Пах	7000	
, to avoluge con conc.	of 50/60Hz coil powe	red at 50Hz			
	0. 00,001.12 00.1 powe	100 at 00112	in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil powe	ered at 60Hz	<u> </u>		
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil powered	l at 60Hz	<u> </u>		
			in-rush	VA	30
			holding	VA	4
Dissipation at holding	≤20°C 50Hz			W	0.95
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us c					
	in AC				
		Closing NO			
			min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
		Olassia a NO	max	ms	18
		Closing NC	min	mo	17
			min	ms ms	26
		Opening NC	max	ms	20
		Opening NO	min	ms	7
			max	ms	, 17
	in DC		IIIdA	1113	1.1
	50	Closing NO			
		3.009 . 10	min	ms	18
			max	ms	25
		Opening NO			-
		. 5	min	ms	2
			max	ms	3
		Closing NC			
		-	min	ms	3
			max	ms	5
		Opening NC			
			min	ms	11
			max	ms	17
UL technical data					
Full-load current (FLA	) for three-phase AC me	otor			
			at 480V	Α	11
			at 600V	Α	11



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 <sup>N</sup> .(6)		57 .24")
(0.17")	(2.24")	0 0 5	8 (2	.24 )
<b>*****</b>	[   <sup>1</sup> / <sub>2</sub>			
	50 (1.97") 58 (2.28")	1 2 2 2 2 2	(2.28")	
<b>***</b>	(2) (1) (2)	2(	3	
		45. O H H O O C		
05	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, 230VAC, 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