





Product designation			Power contactor
Product type designation			BG12
Contact characteristics		NI.	•
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	20
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)	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			
	≤24V	Α	12
	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	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	Α	10
			÷ •





	220V	Α	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	2201		
120 max canonic to in 200 200 mai 2/10 = 10mb mai 1 poloc in conco	≤24V	Α	7
	48V	A	6
	75V	A	2
	110V	A	1
	220V	A	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V	^	
TEC max current le in DC3-DC3 with L/R \(\) 13ms with 2 poles in series	~24) /	۸	0
	≤24V	A	8
	48V	A	8
	75V	A	5
	110V	A	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	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	A	72
	690V	Α	72
Resistance per pole (average value)	0001	mΩ	10
Power dissipation per pole (average value)		11122	10
i owei dissipation per pole (average value)	Ith	W	4
Tightoning targue for terminals	AC-3	W	1.44
Tightening torque for terminals		N 1 .	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin 	9
	max	lbin	9
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9





		max	lbin	9
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			0.75
		min	mm²	0.75
	Clavible alvelus conductos continu	max	mm²	2.5
	Flexible c/w lug conductor section	min	mm²	1.5
		min	mm²	2.5
	Flexible with insulated spade lug conductor section	max	111111	2.0
	Flexible with insulated space lug conductor section	min	mm²	1.5
		max	mm²	2.5
		IIIax	111111	IP20 when
Power terminal proted	ction according to IEC/EN 60529			properly wired
Mechanical features				, op 3, 3
Operating position				
. 51		normal		Vertical plan
		allowable		±30°
Eivina				Screw / DIN rail
Fixing				35mm
Weight			g	178
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact char	acteristics			
Thermal current Ith			А	10
Thermal current Ith IEC/EN 60947-5-1 de	esignation		A	10 A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 de	esignation			A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 de	esignation	230V	A	A600 - Q600
Thermal current Ith IEC/EN 60947-5-1 de	esignation	400V	A A	A600 - Q600 3 1.9
Thermal current lth IEC/EN 60947-5-1 de Operating current AC	esignation 15		A	A600 - Q600
Thermal current lth IEC/EN 60947-5-1 de Operating current AC	esignation 15	400V 500V	A A A	A600 - Q600 3 1.9 1.4
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	400V	A A	A600 - Q600 3 1.9
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	400V 500V	A A A	A600 - Q600 3 1.9 1.4 2.9
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	400V 500V 110V 24V	A A A	A600 - Q600 3 1.9 1.4 2.9
Thermal current lth IEC/EN 60947-5-1 de Operating current AC	esignation 15	400V 500V 110V 24V 48V	A A A A	A600 - Q600 3 1.9 1.4 2.9 2.9 1.4
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 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
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 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
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 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
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC	esignation 15	400V 500V 110V 24V 48V 60V 110V 125V 220V	A 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
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC	esignation 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
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC	esignation 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
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operating current DC	esignation 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
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operating current DC Electrical life	esignation 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
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operating current DC Electrical life Safety related data	esignation 15 12 13	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
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operating current DC Electrical life Safety related data	esignation 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
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operating current DC Electrical life Safety related data	esignation 15 12 13 10d according to EN/ISO 13489-1	400V 500V 110V 24V 48V 60V 110V 125V 220V	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
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	esignation 15 12 13 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
Thermal current lth IEC/EN 60947-5-1 de Operating current AC Operating current DC Operating current DC Operating current DC Operations Mechanical life Electrical life Safety related data Performance level B1	esignation 15 12 13 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





	: 50/60Hz			V	400
C operating voltage					
	of 50/60Hz coil pov	pick-up			
		ρισκ-αρ	min	%Us	75
			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	55
	of 50/60Hz coil pov				
		pick-up		0/11	
			min	%Us	80
		drap out	max	%Us	115
		drop-out	min	%Us	20
			max	%Us	55
C average coil con	sumption at 20°C		- Indx	7000	
	of 50/60Hz coil pov	wered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil pov	vered at 60Hz			
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil power	ed at 60Hz			
			in-rush	VA	30
Ni - i 4i 4 - -	<00°C FOLI-		holding	VA	4
Dissipation at holdin Max cycles frequence				W	0.95
Mechanical operation				cycles/h	3600
Operating times				Cyclc3/11	3000
verage time for Us	control				
J	in AC				
		Closing NO			
			min	ms	12
			min max	ms ms	12 21
		Opening NO	max	ms	21
		Opening NO	max min	ms ms	9
			max	ms	21
		Opening NO Closing NC	max min max	ms ms ms	21918
			max min max min	ms ms ms	2191817
		Closing NC	max min max	ms ms ms	21918
			max min max min max	ms ms ms ms	219181726
		Closing NC	max min max min max min	ms ms ms ms	2191817267
	in DC	Closing NC	max min max min max	ms ms ms ms	219181726
	in DC	Closing NC	max min max min max min	ms ms ms ms	2191817267
	in DC	Closing NC Opening NC	max min max min max min	ms ms ms ms	21 9 18 17 26 7 17
	in DC	Closing NC Opening NC Closing NO	max min max min max min max	ms ms ms ms ms	21 9 18 17 26 7 17
	in DC	Closing NC Opening NC	max min max min max min max min max	ms ms ms ms ms ms	21 9 18 17 26 7 17
	in DC	Closing NC Opening NC Closing NO	max min max min max min max min max min max	ms	21 9 18 17 26 7 17
	in DC	Closing NC Opening NC Closing NO Opening NO	max min max min max min max min max	ms ms ms ms ms ms ms ms ms	21 9 18 17 26 7 17
	in DC	Closing NC Opening NC Closing NO	max min max min max min max min max min max	ms	21 9 18 17 26 7 17 18 25 2 3
	in DC	Closing NC Opening NC Closing NO Opening NO	max min max min max min max min max min max	ms	21 9 18 17 26 7 17 18 25

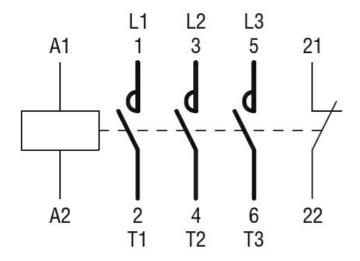


Opening NC

	Opening in	J		
		min	ms	11
		max	ms	17
UL technical data				
) for these subsection			
Full-load current (FLA) for three-phase AC motor			
		at 480V	Α	11
		at 600V	Α	11
Yielded mechanical po	erformance			
, , , , , , , , , , , , , , , , , , ,	for single-phase AC motor			
	for single-phase AC motor	440/400\/	LID	0.5
		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
0		575/600V	HP	10
General USE				
	Contactor			
		AC current	Α	20
Short-circuit protection	n fuse. 600V			
p. 0.0000	High fault			
	i ligit lault	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 auxilia	iary contacts according to UL	1 400 01400		A600 - Q600
	iary contacts according to OL			A000 - Q000
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
	Storage temperature	min	°C	-60
		max	°C	+80
Max altitude			m	3000
Resistance & Protecti	ion			
Pollution degree				3
Dimensions				
4.4 (0.17") (0.17")	(2.24")	(1.73")	(2.	57————————————————————————————————————
(0.17) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		$\scriptsize \textcircled{\scriptsize \textcircled{\scriptsize \textcircled{\scriptsize \textcircled{\scriptsize \textcircled{\scriptsize \textcircled{\scriptsize \textcircled{\scriptsize \textcircled{\scriptsize \textcircled{\scriptsize $	5	
⊕ ⊕ ⊕ ⊕	(1.97")		(2.28"	
ф н н ф ф	34.9	3.2 (1.37") (3.12)		
(0.38") (0.38") (0.38")	(1.37")	(0.12)	"	RF9
8.5 (0.33")		44		89.2 (3.51") -7.6 (0.30")
(0.33") Wiring diagrams		(1.73")		(3.31)

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 400VAC, 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