



Product designation			Auxiliary contactor
Product type designation			BG12
Contact characteristics			
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		A	20
Operational current le			
	AC-1 (≤40°C)	А	20
	AC-1 (≤55°C)	A	18
	AC-1 (≤70°C)	A	15
	AC-3 (≤440V ≤55°C)	A	12
	AC-4 (400V)	A	4.8
Rated operational power AC-3 (T≤55°C)		7.	
	230V	kW	3.2
	400V	kW	5.7
	400V 415V	kW	6.2
	440V	kW	5.5
	500V	kW	5
	690V	kW	5
Rated operational power AC-1 (T≤40°C)	030 V	IN V V	5
	230V	kW	8
	230V 400V	kW	
	400V 500V	kW	14 16
	690V	kW	22
$\frac{1}{100}$ max current lo in DC1 with $\frac{1}{100}$ < 1 me with 1 pales in carios	090 v	r v v	22
IEC max current le in DC1 with $L/R \le 1$ ms with 1 poles in series	≤24V	۸	10
		A	12
	48V	A	10
	75V	A	4
	110V	A	3
$\frac{1}{100}$ may current lo in DC1 with $\frac{1}{100}$ < 1 m with 2 palas in carica	220V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series	<0.4 V		45
	≤24V	A	15
	48V	A	14
	75V	A	9
	110V	A	8
	220V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series			4.0
	≤24V	A	16
	48V	A	16
	75V	A	10
	110V	A	10



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	220V	А	2
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	≤24V	А	_
	48V	Α	_
	75V	А	_
	110V	А	-
	220V	A	-
EC max current le in DC3-DC5 with L/R $\leq$ 15ms with 1 poles in series			
	≤24V	А	7
	48V	А	6
	75V	A	2
	110V	A	1
	220V	A	_
EC max current le in DC3-DC5 with L/R $\leq$ 15ms with 2 poles in series			
	≤24V	A	8
	48V	A	8
	75V	A	5
	110V	A	4
	220V	A	_
EC max current le in DC3-DC5 with L/R $\leq$ 15ms with 3 poles in series		-	
	≤24V	A	10
	48V	Α	10
	75V	Α	6
	110V	Α	5
	220V	A	0,8
EC max current le in DC3-DC5 with L/R $\leq$ 15ms with 4 poles in series		_	
	≤24V	A	_
	48V	A	_
	75V	A	-
	110V	A	-
	220V	A	_
Short-time allowable current for 10s (IEC/EN60947-1)		Α	96
Protection fuse			
	gG (IEC)	A	20
	aM (IEC)	<u>A</u>	16
Making capacity (RMS value)		Α	120
Breaking capacity at voltage			<u></u>
	440V	A	96 70
	500V	A	72
	690V	<u>A</u>	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	lth	W	4
The second se	AC-3	W	1.4
Tightening torque for terminals		<b>N</b> 1 -	0.0
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
The first sector of the sector s			
Tightening torque for coil terminal			
Tightening torque for coil terminal	min	Nm	0.8
Tightening torque for coil terminal	min max min	Nm Nm Ibin	0.8 1 9



		max	Ibin	9
Max number of wires	s simultaneously connectable		Nr.	2
Conductor section	AWG/Kcmil			
	AWG/Remin	max		12
	Flexible w/o lug conductor section	Пах		12
		min	mm²	0.8
		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			
		min	mm²	1.5
		max	mm²	2.5
	ection according to IEC/EN 60529			IP20
Mechanical features				
Operating position				Vortical plan
		normal allowable		Vertical plan ±30°
		allowable		±30 Screw / DIN rail
Fixing				35mm
Weight			g	200
Conductor section			3	
	AWG/kcmil conductor section			
		max		12
Auxiliary contact cha	racteristics			
Thermal current Ith			А	10
EC/EN 60947-5-1 d	•			A600
Operating current AC	C15			
		230V	Α	3
		400V	A	1.9
	240	500V	A	1.4
Operating current DC	512	4401/		
	24.0	110V	A	2.9
Operating current DC	513	241/	۸	2.0
		24V 48V	A A	2.9 1.4
		48V 60V	A	1.4
		110V	A	0.6
		125V	A	0.55
		220V	A	0.3
		600V	A	0.1
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
	10d according to EN/ISO 13489-1			
	10d according to EN/ISO 13489-1	rated load	cycles	500000
	-	rated load nechanical load	cycles cycles	500000 20000000
Performance level B Mirror contats accord	-		•	20000000 YES
Performance level B Mirror contats accord EMC compatibility	- r		•	20000000
Performance level B Mirror contats accord	n ding to IEC/EN 609474-4-1		•	20000000 YES

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AC operating voltage					
5 1 5 6 5	of 50/60Hz coil po	wered at 50Hz			
		pick-up			
		ρισκ-αρ	min	%Us	75
			max	%Us	115
		drop-out			
			min	%Us	20
			max	%Us	55
	of 50/60Hz coil po	wered at 60Hz			
	•	pick-up			
		hh	min	%Us	80
			max	%Us	115
		drop out	max	/005	115
		drop-out		0/11-	00
			min	%Us	20
			max	%Us	55
AC average coil consu	umption at 20°C				
	of 50/60Hz coil po	wered at 50Hz			
			in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil po	wered at 60Hz	nording	v / 1	•
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil power	red at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holding	≤20°C 50Hz			W	0.9
Max cycles frequency					
Mechanical operation					
				cvcles/h	3600
				cycles/h	3600
Operating times	outrol			cycles/h	3600
				cycles/h	3600
Operating times	ontrol in AC			cycles/h	3600
Operating times		Closing NO		cycles/h	
Operating times		Closing NO	min	cycles/h ms	12
Operating times		Closing NO	min max		
Operating times		-		ms	12
Operating times		Closing NO Opening NO	max	ms ms	12 21
Operating times		-	max	ms ms ms	12 21 9
Operating times		Opening NO	max	ms ms	12 21
Operating times		-	max min max	ms ms ms ms	12 21 9 18
Operating times		Opening NO	max min max min	ms ms ms ms ms	12 21 9 18 17
Operating times		Opening NO Closing NC	max min max	ms ms ms ms	12 21 9 18
Operating times		Opening NO	max min max min max	ms ms ms ms ms	12 21 9 18 17 26
Operating times		Opening NO Closing NC	max min max min	ms ms ms ms ms	12 21 9 18 17
Operating times		Opening NO Closing NC	max min max min max	ms ms ms ms ms	12 21 9 18 17 26
Operating times	in AC	Opening NO Closing NC	max min max min max min	ms ms ms ms ms ms	12 21 9 18 17 26 7
Operating times		Opening NO Closing NC Opening NC	max min max min max min	ms ms ms ms ms ms	12 21 9 18 17 26 7
Operating times	in AC	Opening NO Closing NC	max min max min max min max	ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Operating times	in AC	Opening NO Closing NC Opening NC	max min max min max min max	ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 18
Operating times	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max	ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17
Operating times	in AC	Opening NO Closing NC Opening NC	max min max min max min max	ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17
Operating times	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max min max	ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17 18 25 2
Operating times	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	max min max min max min max	ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17
Operating times	in AC	Opening NO Closing NC Opening NC Closing NO	max min max min max min max min max	ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17 18 25 2
Operating times	in AC	Opening NO 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	12 21 9 18 17 26 7 17 17 18 25 2 3
Operating times	in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	max min max min max min max min max min max min	ms ms ms ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 17 18 25 2 3 3
Operating times	in AC	Opening NO 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 ms	12 21 9 18 17 26 7 17 17 18 25 2 3

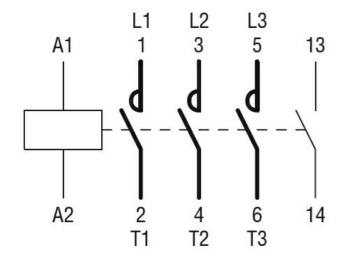


min ms 11 max ms 17 technical data II-load current (FLA) for three-phase AC motor at 480V A 11 at 600V A 11 elded mechanical performance for single-phase AC motor $\frac{110/120V}{230V} HP 0.5$ $\frac{110/120V}{1.5}$
technical data         II-load current (FLA) for three-phase AC motor         at 480V       A       11         at 600V       A       11         elded mechanical performance       for single-phase AC motor         110/120V       HP       0.5         230V       HP       1.5
II-load current (FLA) for three-phase AC motor at 480V A 11 at 600V A 11 elded mechanical performance for single-phase AC motor 110/120V HP 0.5 230V HP 1.5
at 480V A 11 at 600V A 11 elded mechanical performance for single-phase AC motor 110/120V HP 0.5 230V HP 1.5
at 600V A 11 elded mechanical performance for single-phase AC motor 110/120V HP 0.5 230V HP 1.5
elded mechanical performance for single-phase AC motor 110/120V HP 0.5 230V HP 1.5
for single-phase AC motor 110/120V HP 0.5 230V HP 1.5
110/120V HP 0.5 230V HP 1.5
230V HP 1.5
200/208V HP 3
220/230V HP 3
460/480V HP 7.5
575/600V HP 10
neral USE
Contactor
AC current A 20
ort-circuit protection fuse, 600V
High fault
Short circuit current kA 100
Fuse rating A 30
Fuse class J
Standard fault
Short circuit current kA 5
Fuse rating A 30
Fuse class RK5
ntact rating of auxiliary contacts according to UL A600 - Q600
nbient conditions
mperature
Operating temperature
min °C -50
max °C +70
Storage temperature min °C -60
max °C +80 m 3000
sistance & Protection
Ilution degree 3
nensions
$\begin{array}{c} 44\\ 4\\ 4\\ 7\\ 7\\ 7\\ 9\\ 8\\ 8\\ 8\\ 8\\ 9\\ 8\\ 8\\ 9\\ 8\\ 8\\ 9\\ 8\\ 8\\ 9\\ 9\\ 7\\ 9\\ 7\\ 9\\ 7\\ 9\\ 7\\ 9\\ 8\\ 8\\ 9\\ 9\\ 7\\ 9\\ 7\\ 9\\ 7\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\$
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ring diagrams

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## Certifications and compliance

## 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