



		4	271 412 013 14 15
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		Α	20
Operational current le			-
	AC-1 (≤40°C)	Α	160
	AC-3 (≤440V ≤55°C)	Α	12
	AC-4 (400V)	Α	4.8
Rated operational power AC-3 (T≤55°C)	7.0 1 (1007)	- , ,	1.0
Trated operational power 7.0 0 (1=00 0)	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)	030 V	IXVV	
Nated operational power AO-1 (1340 O)	230V	kW	8
	400V	kW	14
	500V	kW	16
	690V	kW	22
Short-time allowable current for 10s (IEC/EN60947-1)	090 V	A	96
Protection fuse		^	90
Protection ruse	~C (IFC)	۸	20
	gG (IEC)	A	20
Making consists (DMC value)	aM (IEC)	A	16
Making capacity (RMS value)		Α	120
Breaking capacity at voltage	44014		0.0
	440V	A	96
	500V	A	72
	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC3	W	1.4
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.6
	max	lbin	0.7

Tightening torque for coil terminal



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		min	Nm	0.8
		max	Nm	1
		min	lbft	0.59
		max	lbft	0.74
-	simultaneously connectable		nr.	2
Conductor section				
	Flexible w/o lug conductor section			
		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
	tion according to IEC/EN 60529			IP20
Mechanical features				
Operating position				
		normal		vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	200
Auxiliary contact chara	cteristics			
Type of contact				1 NA
Thermal current Ith			Α	10
IEC/EN 60947-5-1 des	signation			Q600
Operating current AC1	5			
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC1	2			
		110V	Α	2.9
Operating current DC1	3			
		24V	Α	2.9
		48V	Α	1.4
		60V	Α	1.2
		110V	Α	0.6
		125V	Α	0.55
		220V	Α	0.3
		600V	Α	0.1
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
Performance level B10	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
		mechanical load	cycles	20000000
Mirror contats according	ng to IEC/EN 609474-4-1			true
EMC compatibility				true
AC coil operating				
Rated AC voltage at 5	0/60Hz, 60Hz			
Č		min	V	12



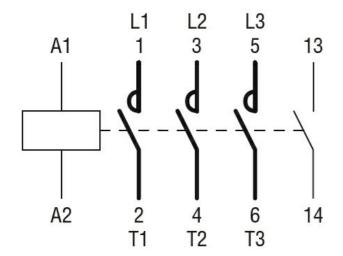
	max	V	575
AC operating voltage at 20°C			
of 50/60Hz coil powered at 50Hz			
	in-rush	VA	30
	holding	VA	4
of 50/60Hz coil powered at 60Hz			
	in-rush	VA	25
	holding	VA	3
of 60Hz coil powered at 60Hz			
	in-rush	VA	30
	holding	VA	4
Dissipation at holding ≤20°C 50Hz		W	0.9
DC coil operating			
DC rated control voltage			
	min	V	6
	max	V	250
DC operating voltage			
pick-up			
	min	%Us	75
	max	%Us	115
drop-out			
	min	%Us	10
	max	%Us	25
Average coil consumption ≤20°C			
	in-rush	W	3.2
	holding	W	3.2
Max cycles frequency			
Mechanical operations		cycles/h	3600
Operating times			
Average time for Us control			
in AC			
Closing NO			
	min	ms	12
	max	ms	21
Opening NO			
	min	ms	9
	max	ms	18
Closing NC			
	min	ms	17
	min max	ms ms	17 26
Opening NC			
Opening NC			267
	max	ms	26
in DC	max min	ms ms	267
	max min	ms ms	267
in DC	max min	ms ms	26 7 17
in DC Closing NO	max min max	ms ms ms	26 7 17
in DC	max min max min	ms ms ms	26 7 17 18 25
in DC Closing NO	max min max min	ms ms ms	26 7 17 18 25
in DC Closing NO Opening NO	max min max min max	ms ms ms	26 7 17 18 25
in DC Closing NO	max min max min max min max	ms ms ms	26 7 17 18 25 2
in DC Closing NO Opening NO	max min max min max min max min	ms ms ms	26 7 17 18 25 2 3
in DC Closing NO Opening NO	max min max min max min max	ms ms ms ms ms	26 7 17 18 25 2



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		min	ms	11
		max	ms	17
UL technical data		max	1110	17
Full-load current (FLA) for	three-phase AC motor			
. aeaa eae (1 23 t) .e.	and phase its motor	at 480V	Α	11
		at 600V	Α	11
Yielded mechanical perform	mance			
-	single-phase AC motor			
	omgro pridocerto 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
Contact rating of auxiliary of	contacts according to UL		•	A600 - Q600
General USE	<u> </u>			_
Co	ontactor			
		AC current	Α	20
Ambient conditions				
Temperature				
Op	perating temperature			
		min	°C	-40
		max	°C	60
Sto	orage temperature			_
		min	°C	-55
		max	°C	70
Max altitude			m	3000
Resistance & Protection				
Pollution degree				3
Dimensions				
4.4 (0.17") (0.17") (0.17") (0.17") (0.17") (0.17") (0.18") (1.37" (0.38") (1.37" (0.33") (0.33")	(2.24") (2.24") (2.88") (2.88")	44 (1.73") (1.73") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37")	(2.58")	RF9 7.6 (0.30")
Wiring diagrams				





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 6 classification

EC000066 - Power contactor, AC switching