





			211.
Product designation			Power 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			
operational nequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	max	A	20
Operational current le			20
Operational current le	AC-1 (≤40°C)	Α	20
			18
	AC-1 (≤55°C)	A	
	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)			
1 1 - (/	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	000 V	IXVV	
TEC max current le in DCT with E/N = mis with 1 poles in series	≤24V	٨	12
		A	
	48V	A	10
	75V	A	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	A	10
	110V	A	10
	1100	^	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 canoncio in 200 200 mai 2/10 = 10mb mai i poloci 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
Max number of wires	simultaneously connectable	IIIdx	Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			
	3	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 sectio	n		
		min	mm²	1.5
		max	mm²	2.5
Power terminal prote	ction according to IEC/EN 60529			IP20 when
Mechanical features				properly wired
Operating position				
Sperating position		normal		Vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	183
Auxiliary contact char	acteristics		3	
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	esignation			A600 - Q600
Operating current AC	•			•
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC	12			
		110V	Α	2.9
Operating current DC	13			
		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	10.1 P. 1. FN//20 10.100 i			
Performance level B	10d according to EN/ISO 13489-1			
		rated load	cycles	500000
		mechanical load	cycles	20000000
	ing to IEC/EN 609474-4-1			Yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at			V	230
AC operating voltage				

of 50/60Hz coil powered at 50Hz





		pick-up			
			min	%Us	75
		dua a accid	max	%Us	115
		drop-out	min	%Us	20
			min	%Us %Us	20 55
	of 50/60Hz coil r	powered at 60Hz	max	/005	55
	01 50/60F12 COII p	pick-up			
		рюк ир	min	%Us	80
			max	%Us	115
		drop-out		,,,,,	
		5. Sp. 5.3.	min	%Us	20
			max	%Us	55
AC average coil cons	sumption at 20°C				
ŭ		powered at 50Hz			
	•		in-rush	VA	30
			holding	VA	4
	of 50/60Hz coil p	powered at 60Hz			-
			in-rush	VA	25
			holding	VA	3
	of 60Hz coil pow	vered at 60Hz			
			in-rush	VA	30
			holding	VA	4
Dissipation at holding				W	0.95
Max cycles frequency					
Mechanical operation	1			cycles/h	3600
				Oyoloo/11	0000
Operating times				oyoloo/11	
Operating times Average time for Us	control			0,0100/11	
		Olaria NO		oyoloo/11	
	control	Closing NO			
	control	Closing NO	min	ms	12
	control	-			
	control	Closing NO Opening NO	min max	ms ms	12 21
	control	-	min max min	ms ms	12 21 9
	control	Opening NO	min max	ms ms	12 21
	control	-	min max min max	ms ms ms	12 21 9 18
	control	Opening NO	min max min max min	ms ms ms ms	12 21 9 18
	control	Opening NO Closing NC	min max min max	ms ms ms	12 21 9 18
	control	Opening NO	min max min max min max	ms ms ms ms	12 21 9 18 17 26
	control	Opening NO Closing NC	min max min max min max min	ms ms ms ms ms	12 21 9 18 17 26
	control	Opening NO Closing NC	min max min max min max	ms ms ms ms	12 21 9 18 17 26
	control in AC	Opening NO Closing NC	min max min max min max min	ms ms ms ms ms	12 21 9 18 17 26
	control in AC	Opening NO Closing NC Opening NC	min max min max min max min	ms ms ms ms ms	12 21 9 18 17 26
	control in AC	Opening NO Closing NC Opening NC	min max min max min max min max	ms ms ms ms ms	12 21 9 18 17 26 7
	control in AC	Opening NO Closing NC Opening NC	min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
	control in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
	control in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
	control in AC	Opening NO Closing NC Opening NC Closing NO	min max min max min max min max min max min max	ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17
	control in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	min max min	ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17
	control in AC	Opening NO Closing NC Opening NO Closing NO Opening NO Closing NO	min max min max min max min max min max min max	ms ms ms ms ms ms	12 21 9 18 17 26 7 17
	control in AC	Opening NO Closing NC Opening NC Closing NO Opening NO	min max	ms ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17 18 25 2 3
	control in AC	Opening NO Closing NC Opening NO Closing NO Opening NO Closing NO	min max min	ms ms ms ms ms ms ms	12 21 9 18 17 26 7 17

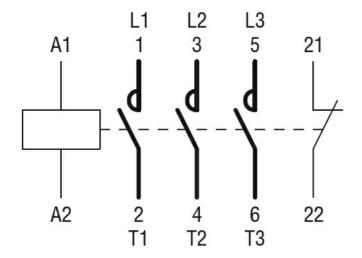
ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, AC COIL 50/60HZ, 230VAC, 1NC AUXILIARY CONTACT

UL technical data			
Rated operational voltage AC (UL)		V	600
Full-load current (FLA) for three-phase AC motor			
	at 480V	Α	11
	at 600V	Α	11
Yielded mechanical performance			
for single-phase AC 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
General USE			
Contactor			
23.1140101	AC current	Α	20
Short-circuit protection fuse, 600V	7.0 oarron		
High fault			
i ligit tault	Short circuit current	kA	100
	Fuse rating	A	30
	Fuse rating Fuse class	A	J
Standard fault	ruse class		J
Standard fault	Chart sine it summent	LεΛ	_
	Short circuit current	kΑ	5
	Fuse rating	Α	30
	Fuse class		RK5
Contact rating of auxiliary contacts according to UL			A600 - Q600
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	+70
Storage temperature			
	min	°C	-60
	max	°C	+80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			
(1.73") (0.17")	44 a ^A .6		
4.4	(1.73") (1.73") (1.73")	- 12	57
(0.17)		37	
	⊕ ⊕ ⊕ ⊕ ⊕		
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□		(2.28")	
	94.2 (3.71°) (1.71°)	6	
8.5	34.9 32.9		
(0.33") (0.38") (1.37")	(1.37") (0.12")	RF9
(0.33")			76
8.5 (0.33")	(1.73")	_	89.2 (3.51") (0.30"
	(1.73")		(3.31)
Viring diagrams			

ENERGY AND AUTOMATION

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