



# THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 48VDC, 1NO AUXILIARY CONTACT



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	20
	AC-1 (≤55°C)	Α	18
	AC-1 (≤70°C)	Α	15
	AC-3 (≤440V ≤55°C)	Α	12
	AC-4 (400V)	A	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
150 11 1 DO4 11 1 1 D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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	A	4
	110V	A	3
150 11 : BO4 : 11 1 /B 14 1 : 11 0 1 : 1	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series		_	
	≤24V	A	15
	48V	A	14
	75V	A	9
	110V	A	8
150	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series		_	
	≤24V	A	16
	48V	A	16
	75V	A	10
	110V	Α	10





# THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 48VDC, 1NO AUXILIARY CONTACT

	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	Α	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	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)	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)			
, , , , , , , , , , , , , , , , , , , ,	Ith	W	4
	AC-3	W	1.4
Tightening torque for terminals	,,,,,	• • •	•••
rightoning torque for terminals	:-	Nima	0.0
	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
			-





# THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 48VDC, 1NO AUXILIARY CONTACT

		max	Ibin	9
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	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	n		
		min	mm²	1.5
		max	mm²	2.5
-	ction according to IEC/EN 60529			IP20
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
				35mm
Weight			g	200
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 de	-			Q600
Operating current AC	15			
		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				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
		mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			YES
EMC compatibility				YES
DC coil operating				
DC rated control volta	ge		V	48





THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 48VDC, **1NO AUXILIARY CONTACT** 

DC operating voltage					
	pick-up				
			min	%Us	75
			max	%Us	115
	drop-out				
			min	%Us	10
			max	%Us	25
Average coil consump	tion ≤20°C				
			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC				
		Closing NO			
			min	ms	12
		0 1 1/2	max	ms	21
		Opening NO			_
			min	ms	9
		01 1 110	max	ms	18
		Closing NC	_		
			min	ms	17
			max	ms	26
		Opening NC			_
			min	ms	7
	<del></del>		max	ms	17
	in DC	0			
		Closing NO	_		
			min	ms	18
			max	ms	25
		Opening NO			_
			min	ms	2
			max	ms	3
		Closing NC			
			min	ms	3
		0 1 1/2	max	ms	5
		Opening NC			4.4
			min	ms	11
I II to object a later			max	ms	17
UL technical data	for the second	A Compate is			
Full-load current (FLA)	for three-phase A	AC motor	-1.40011	Δ.	44
			at 480V	A	11
Walle Land 1 2 2			at 600V	Α	11
Yielded mechanical pe		10			
	for single-phase	e AC motor			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
			575/600V	HP	10
General USE					



### THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 48VDC, 1NO AUXILIARY CONTACT

Contactor				
	AC current	Α	20	
Short-circuit protection fuse, 600V				
High fault				
	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 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				
4.4 (0.17") (0.17") (0.224") (0.33") (0.33") (0.38") (1.37") (0.38") (1.37") (0.38") (1.37")	44 (1.73") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37")	(2.28)	RF9 89.2 (3.51")	7.6 (0.30")

# L2 A1 13 A2

### Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1



### 11BG1210D048

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 48VDC, 1NO AUXILIARY CONTACT

	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