



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 24VDC, 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)	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
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	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	A	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	2041 /	^	
	≤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
			-





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	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			
	min	mm²	1.5
	max	mm²	2.5
Power terminal protection 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 characteristics			
Thermal current Ith		Α	10
IEC/EN 60947-5-1 designation			Q600
Operating current AC15			
	230V	Α	3
	400V	Α	1.9
	500V	A	1.4
Operating current DC12			
	110V	Α	2.9
Operating current DC13			
	24V	Α	2.9
	48V	Α	1.4
	60V	Α	1.2
	110V	Α	0.6
	125V	Α	0.55
		۸	0.3
	220V	Α	
	220V 600V	A	0.1
Operations		Α	
Mechanical life		A cycles	20000000
Mechanical life Electrical life		Α	
Mechanical life Electrical life Safety related data		A cycles	20000000
Mechanical life Electrical life	600V	cycles cycles	20000000 500000
Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1	600V	cycles cycles	20000000 500000 500000
Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1 me	600V	cycles cycles	20000000 500000 500000 20000000
Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1 me Mirror contats according to IEC/EN 609474-4-1	600V	cycles cycles	20000000 500000 500000 20000000 YES
Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1 me Mirror contats according to IEC/EN 609474-4-1 EMC compatibility	600V	cycles cycles	20000000 500000 500000 20000000
Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1 me Mirror contats according to IEC/EN 609474-4-1	600V	cycles cycles	20000000 500000 500000 20000000 YES





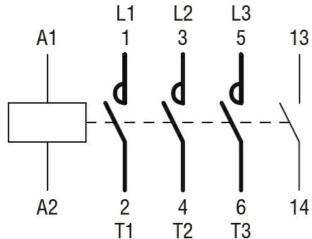
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DC operating voltage		_			
	pick-up				
			min	%Us	75
			max	%Us	115
	drop-out				
			min	%Us	10
			max	%Us	25
Average coil consumpti	on ≤20°C				
			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us con					
	in AC	0			
		Closing NO			40
			min	ms	12
		Ossala NO	max	ms	21
		Opening NO			
			min	ms	9
		01 : 110	max	ms	18
		Closing NC			47
			min	ms	17
		On anima NO	max	ms	26
		Opening NC		د سدو	7
			min	ms	7
	in DC		max	ms	17
	in DC	Clasina NO			
		Closing NO		د سدو	4.0
			min	ms	18
		0 ' 110	max	ms	25
		Opening NO			
			min	ms	2
		Objective NO	max	ms	3
		Closing NC		د سدو	2
			min	ms	3
		On anim = NO	max	ms	5
		Opening NC		د سدو	44
			min	ms	11
UL technical data			max	ms	17
	for three phase AC mai	tor			
Full-load current (FLA)	or unee-phase AC mot	.UI	at 480V	٨	11
			at 480V at 600V	A A	11 11
Yielded mechanical per	formance		al 000V	^	
nelueu mechanicai per	for single-phase AC m	notor			
	ioi sirigie-priase AC M	IOIOI	110/120V	HP	0.5
				HP HP	
	for three phase AC ===	otor	230V	<u> </u>	1.5
	for three-phase AC mo	אנטו	200/2021	ЫD	2
			200/208V	HP	3
			220/230V	HP	3
				LID	7 5
			460/480V 575/600V	HP HP	7.5 10



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	Contactor			
		AC current	Α	20
Short-circuit protection	on 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
	liary contacts according to UL			A600 - Q600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	+70
	Storage temperature			
		min	°C	-60
14 100 1		max	°C	+80
Max altitude	da		m	3000
Resistance & Protect	lion			•
Pollution degree				3
Dimensions				
4.4 (0.17") (0.17") (0.17") (0.33") (0.33") (0.33") (0.33") Wiring diagrams	34.9 (1.37")	44 (1.73") (1.73") (1.37") (0.12") 44 (1.73") (0.12")	(2.28")	89.2 (3.51")



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1



11BG1210D024

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	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