



Product designation

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 110VDC, 1NC AUXILIARY CONTACT



Power contactor

Product type designation **BG12** Contact characteristics 3 Nr. Number of poles Rated insulation voltage Ui IEC/EN ٧ 690 k۷ Rated impulse withstand voltage Uimp 6 Operational frequency min Нъ 25 Hz 400 max IEC Conventional free air thermal current Ith 20 Α 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) 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 3 Α 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

75V

110V

Α

Α

16

10

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	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



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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		2	0.75
		min	mm²	0.75
	Florible alvelor conductor costion	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	max		2.0
	Tionible with inediated space rag conductor section	min	mm²	1.5
		max	mm²	2.5
Dawar tarminal prote	ction according to IEC/EN COECO			IP20 when
•	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	213
Auxiliary contact char	racteristics			
Thermal current Ith			Α	10
EC/EN 60947-5-1 de				A600 - Q600
Operating current AC	215	0001/		
		230V	A	3
		400V 500V	A	1.9 1.4
Operating current DC	N12	5007	A	1.4
Operating current DC	, IZ	110V	Α	2.9
Operating current DC	213	1100		2.3
Operating current DC	710	24V	Α	2.9
		48V	A	1.4
		60V	A	1.2
		110V	A	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 B	10d according to EN/ISO 13489-1			
		rated load	cycles	500000
		echanical load	cycles	20000000
	ling to IEC/EN 609474-4-1			Yes
EMC compatibility				yes
DC coil operating				440
DC rated control volta			V	110
DC operating voltage				
	pick-up			





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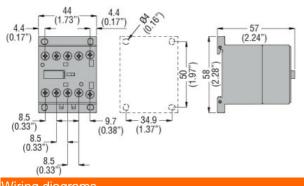
			min	%Us	75
			max	%Us	115
	drop-out				
			min	%Us	10
			max	%Us	25
Average coil consumpt	on ≤20°C				
			in-rush	W	3.2
			holding	W	3.2
Max cycles frequency					
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us co					
	in AC				
	(Closing NO			40
			min	ms	12
	_	Doning NO	max	ms	21
	C	Opening NO	min	me	9
			min max	ms ms	9 18
		Closing NC	IIIdX	1115	10
		JOSHIY INO	min	ms	17
			max	ms	26
		Opening NC	THO X		
		, p	min	ms	7
			max	ms	17
	in DC				
	C	Closing NO			
		_	min	ms	18
			max	ms	25
	C	Opening NO			
			min	ms	2
			max	ms	3
	C	Closing NC			
			min	ms	3
	_		max	ms	5
	(Opening NC	. •		44
			min	ms	11
UL technical data			max	ms	17
Rated operational volta	ne AC (III.)			V	600
	for three-phase AC motor			V	000
i dii lodd ddifelit (I LA)	ioi unoc phase AC motor		at 480V	Α	11
			at 600V	A	11
Yielded mechanical pe	formance		at 000 V	,,	••
o.aoa moonamoa po	for single-phase AC moto	or			
	single phase / to mote		110/120V	HP	0.5
			230V	HP	1.5
	for three-phase AC moto	r		* **	-
			200/208V	HP	3
			220/230V	HP	3
			460/480V	HP	7.5
			575/600V	HP	10
General USE					
	Contactor				

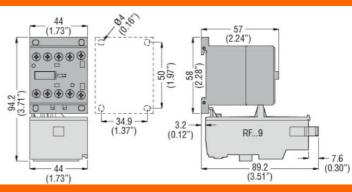




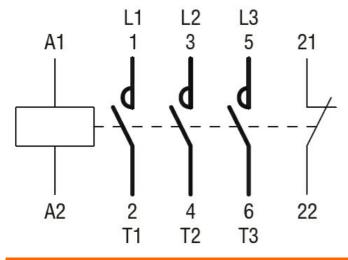
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	A.O. a	۸	00
	AC current	A	20
Short-circuit protection fuse, 600V			
High fault			
· ·	Short circuit current	kA	100
	Fuse rating	Α	30
	Fuse class		J
Standard fault			
	Short circuit current	kA	5
	Fuse rating	Α	30
	Fuse class		RK5
Contact rating of auxiliary contacts accor	ding to UL		A600 - Q600
Ambient conditions	5		
Temperature			
Operating temper	erature		
	min	°C	-50
	max	°C	+70
Storage tempera	ature		
-	min	°C	-60
	max	°C	+80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			
44 4.4	44 0 ^h .6°		





Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1



ENERGY AND AUTOMATION

11BG1201D110

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 110VDC, 1NC AUXILIARY CONTACT

	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