



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 48VDC, **1NC AUXILIARY CONTACT**



Product designation 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 Α 16

75V

110V

Α

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	s simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		12
	Flexible w/o lug conductor section			
		min	mm²	0.75
		max	mm²	2.5
	Flexible c/w lug conductor section	:	2	4.5
		min	mm²	1.5
	Flevible with insulated and delug conductor costion	max	mm²	2.5
	Flexible with insulated spade lug conductor section	min	mm²	1.5
		max	mm²	2.5
		max	111111	IP20 when
Power terminal prote	ection according to IEC/EN 60529			properly wired
Mechanical features				, , ,
Operating position				
		normal		Vertical plan
		allowable		±30°
ixing				Screw / DIN rail 35mm
Veight			g	210
Auxiliary contact cha	racteristics			
Thermal current Ith			Α	10
EC/EN 60947-5-1 d	lesignation			A600 - Q600
Operating current AC	C15			
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DO	C12			
		110V	Α	2.9
Operating current DO	C13			
		24V	Α	2.9
		48V	Α	1.4
		60V	A	1.2
		110V	A	0.6
		125V	A	0.55
		220V 600V	A	0.3
Operations		8007	Α	0.1
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data			Cycles	300000
	10d according to EN/ISO 13489-1			
CHOMINANCE LEVEL D	104 according to E14/100 10403-1	rated load	cycles	500000
	m	echanical load	cycles	2000000
Mirror contats accord	ding to IEC/EN 609474-4-1	Contamba IVau	Cycles	Yes
EMC compatibility	uning to ILO/LIN 0007/4-4-1			yes
DC coil operating				уСЗ
DC rated control volt	rage		V	48
DC rated control voltage			V	10
To operating voitage	pick-up			
	Pior up			





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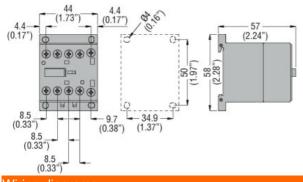
			min	%Us	75
			max	%Us	115
	drop-out				
			min	%Us	10
			max	%Us	25
Average coil consump	tion ≤20°C			147	
			in-rush	W	3.2
May avalog fraguenav			holding	W	3.2
Max cycles frequency Mechanical operation				cycles/h	3600
Operating times				Cycles/11	3000
Average time for Us co	ontrol				
Trolago amo los co	in AC				
	, 10	Closing NO			
		3	min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
			max	ms	18
		Closing NC			
			min	ms	17
			max	ms	26
		Opening NC			7
			min	ms	7 17
	in DC		max	ms	17
	III DC	Closing NO			
		Closing IVC	min	ms	18
			max	ms	25
		Opening NO			
		· ·	min	ms	2
			max	ms	3
		Closing NC			
			min	ms	3
			max	ms	5
		Opening NC			
			min	ms	11
UL technical data			max	ms	17
Rated operational volta				V	600
Full-load current (FLA)		AC motor		V	000
. an ioud ouriont (i LA)	, ioi anoc phase	, to motor	at 480V	Α	11
			at 600V	A	11
Yielded mechanical pe	erformance				
	for single-phas	se AC motor			
	5 ,		110/120V	HP	0.5
			230V	HP	1.5
	for three-phase	e AC motor			
			200/208V	HP	3
			220/230V	HP	3
			460/480V	HP	7.5
			575/600V	HP	10
General USE					
	Contactor				

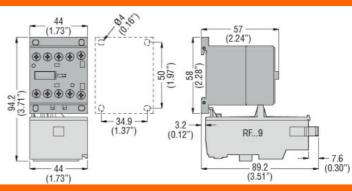
Contactor



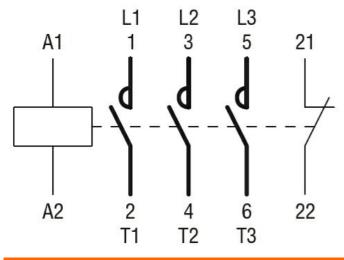
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	AC current	Α	20
Short-circuit protection fuse, 600V			
High fault			
	Short circuit current	kA	100
	Fuse rating	Α	30
	Fuse class		J
Standard fault			
	Short circuit current	kA	5
	Fuse rating	Α	30
	Fuse class		RK5
Contact rating of auxiliary contacts 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 (1.73") (0.17") (0.17") (2.24")	(1.73") (1.73") (1.73")	(2	57 24")





Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1



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	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