





Product designation with surge surpressor

Product type designation BG12

Contact characteristics

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
150	690V	kW	22
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	-04 1/	۸	40
	≤24V	A	12
	48V 75V	A	10
	75V 110V	A A	4 3
	220V	A	- -
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	220 V		
TEC max current le in DCT with E/N = mis with 2 poles in series	≤24V	Α	15
	48V	A	14
	75V	A	9
	110V	Α	8
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	2201		
The man operation of the state	≤24V	Α	16
	48V	Α	16
	75V	Α	10
	. 3 (- •	





	110V	Α	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			
	≤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			
	≤24V	Α	8
	48V	Α	8
	75V	Α	5
	110V	A	4
	220V	A	-
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	220 V		
TEC max current le in DC3-DC3 with E/N 3 13ms with 3 poles in series	≤24V	Α	10
	324 V 48 V	A	10
	75V	A	6
	110V		5
		A	
IFO	220V	Α	0,8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	-0.43.4		
	≤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	Α	72
	690V	Α	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
,	Ith	W	4
	AC-3	W	1.44
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9
Tightening torque for coil terminal	Шах	וווטו	<u> </u>
riginening torque for contentinal	mair	Nima	0.0
	min	Nm Nm	0.8
	max	Nm	1





			مناطا	0
		min	lbin Ibin	9 9
May number of wires	simultaneously connectable	max	Nr.	2
Conductor section	Simularieously connectable		INI.	
Conductor Section	AWG/Kcmil			
	/ W S/Norm	max		12
	Flexible w/o lug conductor section			
	G	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 section			
		min	mm²	1.5
		max	mm²	2.5
Power terminal protect	tion according to IEC/EN 60529			IP20 when
Mechanical features				properly wired
Operating position				
- h		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
Fixing				35mm
Weight			g	222
Conductor section				
	AWG/kcmil conductor section			
		max		12
Auxiliary contact chara	acteristics		^	10
Thermal current Ith	oi am atti a m		A	10
Derating current AC	-			A600 - Q600
Operating current AC	13	230V	Α	3
		400V	A	1.9
		500V	A	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	A	0.3
Onovotions		600V	Α	0.1
Operations Machanical life			ovoloo	2000000
Mechanical life Electrical life			cycles cycles	20000000 500000
Safety related data			cycles	300000
•	0d according to EN/ISO 13489-1			
. 5.15.1.161100 10401 D1				
	3	rated load	cycles	500000
		rated load echanical load	cycles cycles	500000 20000000
Mirror contats accordi	me	rated load echanical load	cycles cycles	20000000
Mirror contats accordi EMC compatibility			-	



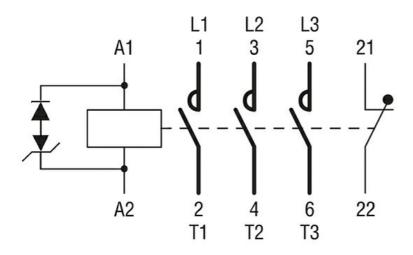


DC coil operating					
DC coll operating DC rated control volta	age			V	24
DC operating voltage				v	<u> </u>
50 operating voltage	pick-up				
	plott up		min	%Us	75
			max	%Us	115
	drop-out				
	1		min	%Us	10
			max	%Us	25
Average coil consum	ption ≤20°C				
	•		in-rush	W	3.2
			holding	W	3.2
Max cycles frequency	/		· ·		
Mechanical operation				cycles/h	3600
Operating times					
Average time for Us of	control				
	in AC				
		Closing NO			
			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
	in DC		max	ms	17
	In DC	Closing NO			
		Closing NO	min	ms	18
			max	ms	25
		Opening NO	max	1113	20
		Opening NO	min	ms	2
			max	ms	3
		Closing NC	max		-
			min	ms	3
			max	ms	5
		Opening NC			
			min	ms	11
			max	ms	17
JL technical data					
Full-load current (FLA	A) for three-phase A0	C motor			
			at 480V	Α	11
			at 600V	Α	11
Yielded mechanical p					
	for single-phase	AC motor			
			110/120V	HP	0.5
			230V	HP	1.5
	for three-phase A	AC motor			
	for three-phase A	AC motor	200/208V	HP	3
	for three-phase A	AC motor	200/208V 220/230V 460/480V	HP HP HP	3 3 7.5





	575/600V	HP	10
General USE			
Contactor			
	AC current	A	20
Short-circuit protection fuse, 600V			
High fault	Short circuit current	kA	100
	Fuse rating	KA A	30
	Fuse class		J
Standard fault	1 400 01400		
Starradia ladit	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
Ctorage temperature	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") (0.17") (0.17") (0.38") (1.37") (0.38") (1.37") (0.38") (1.37") (0.38") (1.37")	44 (1.73") (1.73") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37") (1.37")	(2.28") 5	RF9 7.6 89.2 (0.30")



Certifications and compliance



ENERGY AND AUTOMATION

11BG1201D024V120

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL, 24VDC, 1NC AUXILIARY CONTACT WITH SURGE SUPPRESSOR

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

UL 60947-1

UL 60947-1

CCC

Certificates

CCC cULus EAC

ETIM classification

ETIM 8.0 EC000066 Power contactor,
AC switching