



Product designation Power contactor Product type designation BG12 Contact characteristics

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)	7.6 1 (1001)	,,	
. a.ca operational perior / to o (1=00 o)	230V	kW	3.2
	400V	kW	5.7
	415V	kW	6.2
	440V	kW	5.5
	500V	kW	5.5
	690V	kW	5
Poted enerational newer AC 1 (Tc/10°C)	090 V	N V V	
Rated operational power AC-1 (T≤40°C)	2201/	LAM	0
	230V	kW	8
	400V	kW	14
	500V	kW	16 22
IFC many assemble in DC4 with L/D < 4 man with 4 males in agrice	690V	kW	
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	<0.4V	۸	40
	≤24V	A	12
	48V	A	10
	75V	A	4
	110V	A	3
150	220V	A	
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



	220V	Α	2
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	220 V		
indication in DC1 with E/K 3 this with 4 poles in series	<24\/	٨	
	≤24V	A	_
	48V	A	_
	75V	A	_
	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	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	Α	0.8
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series		- ,,	
120 max danting to the Boo Boo with Erre Tomo with a police in done	≤24V	Α	_
	48V	Α	_
	75V	A	_
	110V	A	_
	220V	A	_
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A	96
Protection fuse			90
Protection ruse	~C (IEC)	٨	20
	gG (IEC)	A	20
M 1: " (DMO 1 )	aM (IEC)	A	16
Making capacity (RMS value)		Α	120
Breaking capacity at voltage	_	_	
	440V	Α	96
	500V	Α	72
	690V	A	72
Resistance per pole (average value)		mΩ	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC3	W	1.44
Tightening torque for terminals			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.59
	max	Ibin	0.74
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.8
		-	



**ENERGY AND AUTOMATION** 

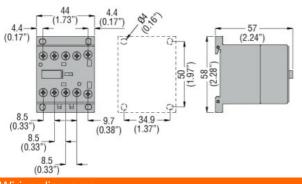
	max	lbft	0.74
Max number of wires simultaneously connectable		nr.	2
Conductor section			
Flexible w/o lug conductor section			
	min	mm²	0.75
	max	mm²	2.5
Flexible c/w lug conductor section			
	min	mm²	1.5
=	max	mm²	2.5
Flexible with insulated spade lug conductors		2	
	min	mm²	1.5
Decrease to a serior of a serior of the LEC/EN COCO	max	mm²	2.5
Power terminal protection according to IEC/EN 60529			IP20 when wired
Mechanical features  Operating position			
Operating position	normal		vertical plan
	normal allowable		vertical plan ±30°
	allowable		Screw / DIN rail
Fixing			35mm
Weight		g	222
Auxiliary contact characteristics		3	
Type of contact			1 NC
Thermal current Ith		Α	10
IEC/EN 60947-5-1 designation			A600 - Q600
Operating current AC15			
	230V	Α	3
	400V	Α	1.9
	500V	Α	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
	220V	A	0.3
	600V	Α	0.1
Operations Machanical life		a) := l : :	20000000
Mechanical life		cycles	20000000 500000
Electrical life		cycles	500000
Safety related data  Performance level B10d according to EN/ISO 13489-1			
Performance level B10d according to EN/ISO 13489-1	roted lead	ovoloo	500000
	rated load mechanical load	cycles cycles	2000000
Mirror contats according to IEC/EN 609474-4-1	modificatioal load	cycles	
EMC compatibility			yes Yes
DC coil operating			100
DC rated control voltage		V	24
DC operating voltage		v	<u>~</u> T
pick-up			
bioir ab	min	%Us	75
	max	%Us	115

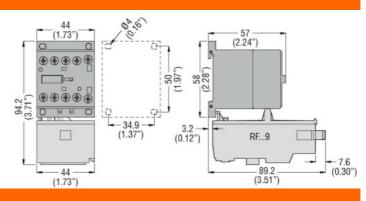


					_
	drop-out				
			min	%Us	10
A	' 400°O		max	%Us	25
Average coil consumpt	ion ≤20°C		مامد سر من	14/	2.2
			in-rush	W	3.2
Max cycles frequency			holding	W	3.2
Mechanical operation				cycles/h	3600
Operating times				Cycles/11	3000
Average time for Us co	ntrol				
Avorago umo for co oc	in AC				
	,	Closing 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			_
			min	ms	7
	· DO		max	ms	17
	in DC	Clasing NO			
		Closing NO	min	ms	18
			max	ms	25
		Opening NO	Παλ	1113	20
		Opening IVO	min	ms	2
			max	ms	3
		Closing NC			
		Ū	min	ms	3
			max	ms	5
		Opening NC			
			min	ms	11
			max	ms	17
UL technical data	f 11 1 0 0				
Full-load current (FLA)	for three-phase AC mo	otor			4.4
			at 480V	A	11
Violded machanical	rformance		at 600V	Α	11
Yielded mechanical pe	rтormance for single-phase AC n	notor			
	ioi sirigie-priase AC ii	HOLOI	110/120V	HP	0.5
			230V	HP	1.5
	for three-phase AC m	otor	2001	• • • •	1.0
	20 pilaco / 10 ili		200/208V	HP	3
			220/230V	HP	3
			460/480V	HP	7.5
			575/600V	HP	10
General USE					
	Contactor				
			AC current	Α	20
Short-circuit protection					_
	High fault				

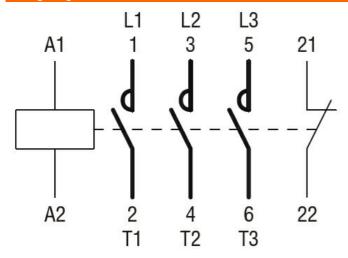


	Short circuit current	kA	100
	Fuse rating	Α	30
	Fuse class		J
Standard fault			
	Short circuit current	kA	5
	Fuse rating	Α	30
Contact rating of auxiliary contacts according to UL			A600 - Q600
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	+70
Storage temperature			
	min	°C	-60
	max	°C	+80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			





## Wiring diagrams



## Certifications and compliance

## Compliance

CSA C22.2 n° 60947-1 CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

## Certificates





Eigenschaften Minischütz, BG1201D, 3P+1Ö, 12A AC3, 24VDC

CCC			
cULus			
FAC			

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching