



Product designation auxiliary contactor Product type designation BG12

1 Toddet type designation			DO 12
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



ENERGY AND AUTOMATION

	220V	Α	2
IFC may current to in DC1 with L/D < 1mg with 4 notes in paries	220 V		
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	.0.11.1		
	≤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	A	<u>-</u>
IFC many augment to in DC2 DC5 with L/D < 45 may with 2 malos in agrica	220 V		
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	40.41.4		•
	≤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	A	10
	75V	Α	6
	110V	A	5
150	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 conceity (DMC value)	aivi (ILC)	A	120
Making capacity (RMS value)		A	120
Breaking capacity at voltage		_	
	440V	Α	96
	500V	Α	72
	690V	Α	72
Resistance per pole (average value)		$m\Omega$	10
Power dissipation per pole (average value)			
	Ith	W	4
	AC3	W	1.4
Tightening torque for terminals			
	min	Nm	0.8
		Nm	1
	max		
	min	Ibin	0.6
<del></del>	max	Ibin	0.7
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbft	0.59



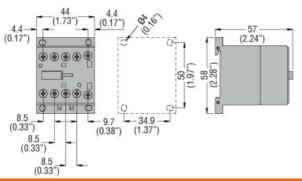
		max	lbft	0.74
Max number of wires s	simultaneously connectable		nr.	2
Conductor section				
	Flexible w/o lug conductor section			
		min	mm²	0.8
		max	mm²	2.5
	Flexible c/w lug conductor section			
		min	mm²	1.5
	=	max	mm²	2.5
	Flexible with insulated spade lug conductor section			4.5
		min	mm² mm²	1.5 2.5
Dower terminal protect	tion appording to IFC/FN 60520	max	IIIII-	IP20
Mechanical features	tion according to IEC/EN 60529			IP20
Operating position				
Operating position		normal		vertical plan
		allowable		±30°
		allowable		Screw / DIN rail
Fixing				35mm
Weight			g	200
Auxiliary contact chara	cteristics			
Type of contact				1 NA
Thermal current Ith			Α	10
IEC/EN 60947-5-1 des	signation			Q600
Operating current AC1	5			
		230V	Α	3
		400V	Α	1.9
		500V	Α	1.4
Operating current DC1	12			
		110V	Α	2.9
Operating current DC1	13			
		24V	A	2.9
		48V	A	1.4
		60V	A	1.2
		110V 125V	A	0.6 0.55
		220V	A A	0.3
		600V	A	0.3
Operations		000 V	/\	
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
•	0d according to EN/ISO 13489-1			
		rated load	cycles	500000
		mechanical load	cycles	20000000
	ng to IEC/EN 609474-4-1			true
EMC compatibility				true
DC coil operating				
DC rated control voltage	ge		V	24
DC operating voltage				
	pick-up			
		min	%Us	75
		max	%Us	115

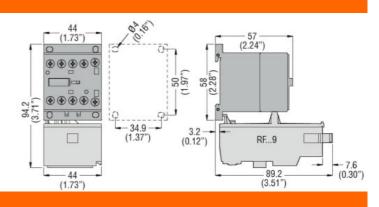


	drop-out			
		mi		10
		ma	x %Us	25
Average coil consumpt	on ≤20°C			
		in-rus		3.2
		holdin	g W	3.2
Max cycles frequency				
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us co				
	in AC			
	Clo	osing NO		
		mi		12
		ma	x ms	21
	Ор	ening NO .		
		mi		9
	Ola	ma	x ms	18
	Cic	osing NC	n m=	17
		mi		17
	On	ma	x ms	26
	Ομ	ening NC mi	n mc	7
		ma		, 17
	in DC	IIIa	A 1115	17
		osing NO		
	Oit	mi	n ms	18
		ma		25
	On	ening NO	A 1113	20
	Oβ	mi <sub>l</sub>	n ms	2
		ma		3
	Clo	osing NC		
		mi	n ms	3
		ma		5
	Op	ening NC		
	·	mi	n ms	11
		ma	x ms	17
UL technical data				
Full-load current (FLA)	for three-phase AC motor			
		at 480\	/ A	11
		at 600\	/ A	11
Yielded mechanical per	formance			
	for single-phase AC motor			
		110/120		0.5
		230	/ HP	1.5
	for three-phase AC motor			
		200/208		3
		220/230		3
		460/480		7.5
		575/600	/ HP	10
General USE				
	Contactor			
		AC currer	t A	20
Short-circuit protection				
	High fault			



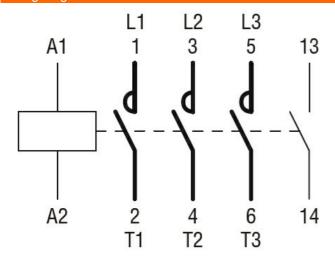
	Short circuit current	kA	100
	Fuse rating	Α	30
	Fuse class		J
Standard fault			
	Short circuit current	kA	5
	Fuse rating	Α	30
Contact rating of auxiliary contacts according to UL			A600 - Q600
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	+70
Storage temperature		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





## Wiring diagrams

**Dimensions** 



UL 60947-4-1

## 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

## Certificates





Eigenschaften Minischütz, BG1210D, 3P+1S, 12A AC3, 24VDC

ccc
cULus
EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching