



Product designation			Auxiliary
•			contactor
Product type designation Contact characteristics			BG12
		Nr.	3
Number of poles Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency		KV	0
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	IIIax	A	20
Operational current le			
Operational current le	AC-1 (≤40°C)	Α	20
	AC-1 (≤55°C)	A	18
	AC-1 (≤33°C) AC-1 (≤70°C)	A	15
	AC-1 (≤70 C) AC-3 (≤440V ≤55°C)	A	12
	AC-3 (3440V 333 C) AC-4 (400V)	A	4.8
Rated operational power AC-3 (T≤55°C)	AO-4 (400V)		4.0
Nated operational power AO-5 (1-200 O)	230V	kW	3.2
	400V	kW	5.7
	415V	kW	6.2
	440V	kW	5.5
	500V	kW	5.5
	690V	kW	5
Rated operational power AC-1 (T≤40°C)	030 V	IX V V	
Nation operational power AO-1 (1=40 O)	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			
120 max carrene in 201 mar 2/112 mile mar i poice in conce	≤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





	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 carrone to in 200 200 mar 2/10 = 10 mo mar 1 poloco 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-DC5 with L/R \(\) 15ms with 2 poles in series	<04)/	۸	0
	≤24V	A	8
	48V	A	8
	75V	A	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			
	≤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	A	72
Pasiatanas par pala (avaraga valua)	090 V	mΩ	10
Resistance per pole (average value)		11177	10
Power dissipation per pole (average value)	141	147	4
	Ith	W	4
	AC-3	W	1.4
Tightening torque for terminals			
	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



	ma	x Ibin	9
Max number of wires	simultaneously connectable	Nr.	2
Conductor section			
	AWG/Kcmil		
	ma	X	12
	Flexible w/o lug conductor section		
	mi	n mm²	0.8
	ma	x mm²	2.5
	Flexible c/w lug conductor section		_
	mi	n mm²	1.5
	ma	x mm²	2.5
	Flexible with insulated spade lug conductor section		
	mi	n mm²	1.5
	ma	x mm²	2.5
Power terminal prote	ction according to IEC/EN 60529		IP20
Mechanical features			
Operating position			
	norma	al	Vertical plan
	allowabl	Э	±30°
Fixing			Screw / DIN rail
			35mm
Weight		g	200
Auxiliary contact char	acteristics		
Thermal current Ith		Α	10
IEC/EN 60947-5-1 de			Q600
Operating current AC			
	230		3
	400'		1.9
	500	/ A	1.4
Operating current DC			
	110	/ A	2.9
Operating current DC			
	24		2.9
	48		1.4
	60'		1.2
	110		0.6
	125		0.55
	220'		0.3
	600'	/ A	0.1
Operations			
Mechanical life		cycles	20000000
Electrical life		cycles	500000
Safety related data	40 Leave Fee to FN//00 40400 4		
Performance level B	10d according to EN/ISO 13489-1		5 00000
	rated loa	•	500000
	mechanical loa	d cycles	20000000
EMC compatibility			YES
DC coil operating		1.7	405
DC rated control volta		V	125
DC operating voltage			
	pick-up	. 0/!!	7.5
	mi		75 445
	ma	x %Us	115



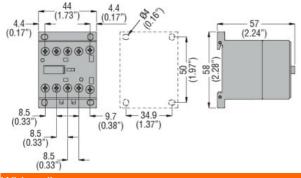


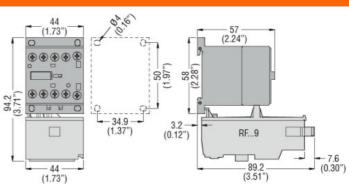
	drop-out			0/11	4.0
			min	%Us	10
A	<0000		max	%Us	25
Average coil consumption	on ≤20 C		in much	14/	2.2
			in-rush holding	W	3.2 3.2
Max cycles frequency			riolaling	VV	3.2
Mechanical operation				cycles/h	3600
Operating times				CyclC3/11	3000
Average time for Us con	ntrol				
_	in AC				
		Closing NO			
		J	min	ms	12
			max	ms	21
		Opening NO			
			min	ms	9
			max	ms	18
		Closing NC			
			min	ms	17
		0 ! NO	max	ms	26
		Opening NC			7
			min	ms	7 17
	in DC		max	ms	17
	III DC	Closing NO			
		Closing NO	min	ms	18
			max	ms	25
		Opening NO	max		
		- p	min	ms	2
			max	ms	3
		Closing NC			
			min	ms	3
			max	ms	5
		Opening NC			
			min	ms	11
			max	ms	17
UL technical data	. 40 (111)			1.7	000
Rated operational voltage				V	600
Full-load current (FLA) for	or three-phase AC	TOTOT	-1.4007	۸	11
			at 480V at 600V	A A	11 11
Yielded mechanical perf	formance		at 000V	^	11
-	for single-phase A	C motor			
	ioi sirigio priaso A	O motor	110/120V	HP	0.5
			230V	HP	1.5
	for three-phase AC	C motor		<u> </u>	
	, in the second		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 f					



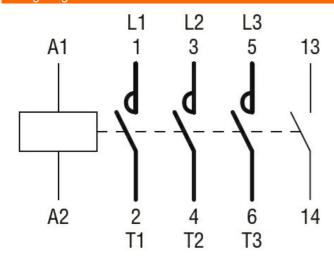


High fault			
	Short circuit current	kA	100
	Fuse rating	Α	30
	Fuse class		J
Standard fault			_
	Short circuit current	kA	5
	Fuse rating	Α	30
	Fuse class		RK5
Contact rating of auxiliary contacts according to UL			A600 - Q600
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	+70
Storage temperature			_
	min	°C	-60
	max	°C	+80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			





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



ENERGY AND AUTOMATION

11BG1210D125

AC switching

	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classification	n	
		EC000066 -
ETIM 8.0		Power contactor,