



Product designation

Product type designation

Auxiliary  
contactor  
BG00

### Contact characteristics

Number of poles	Nr.	4
Rated insulation voltage $U_i$ IEC/EN	V	690
Rated impulse withstand voltage $U_{imp}$	kV	6

Operational frequency

min	Hz	25
max	Hz	400

IEC Conventional free air thermal current  $I_{th}$

A	10
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Protection fuse

gG (IEC)	A	16
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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
max	lbin	9

Max number of wires simultaneously connectable

Nr.	2
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Conductor section

AWG/Kcmil

max	12
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Flexible w/o lug conductor section

min	mm <sup>2</sup>	0.8
max	mm <sup>2</sup>	2.5

Flexible c/w lug conductor section

min	mm <sup>2</sup>	1.5
max	mm <sup>2</sup>	2.5

Flexible with insulated spade lug conductor section

min	mm <sup>2</sup>	1.5
max	mm <sup>2</sup>	2.5

Power terminal protection according to IEC/EN 60529

IP20

### Mechanical features

Operating position

normal allowable	Vertical plan ±30°
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Fixing

Screw / DIN rail  
35mm

Weight

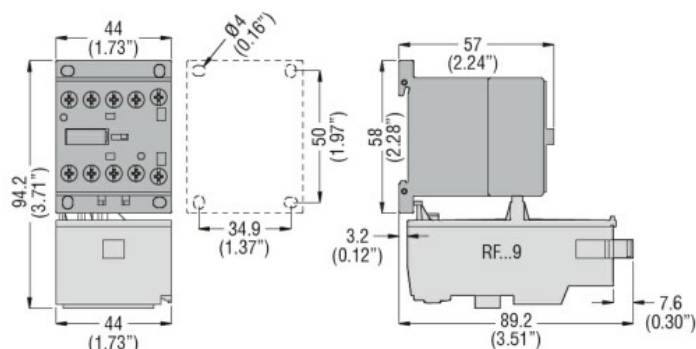
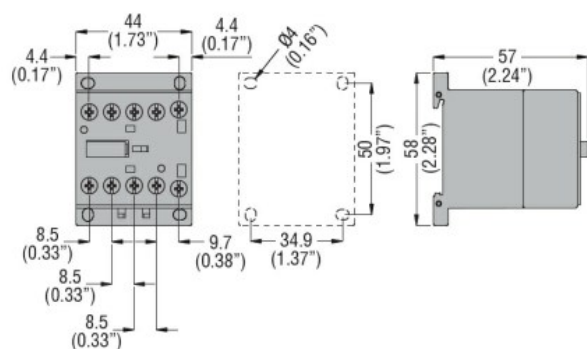
g	200
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Conductor section

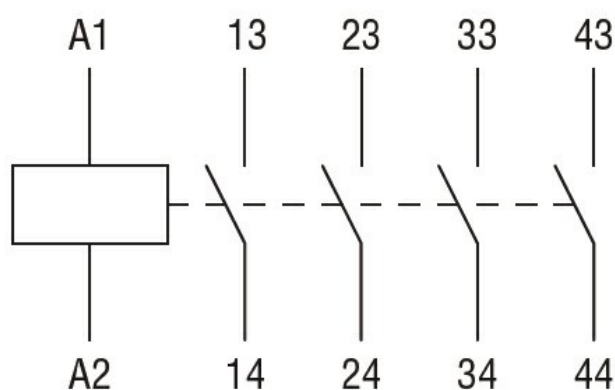
AWG/kcmil conductor section

		max	12
Auxiliary contact characteristics			
Thermal current I <sub>th</sub>		A	10
IEC/EN 60947-5-1 designation		A600 - Q600	
Operating current AC15		230V	A 3
		400V	A 1.9
		500V	A 1.4
Operating current DC12		110V	A 2.9
Operating current DC13		24V	A 2.9
		48V	A 1.4
		60V	A 1.2
		110V	A 0.6
		125V	A 0.55
		220V	A 0.3
		600V	A 0.1
Operations			
Mechanical life		cycles	20000000
Safety related data			
Performance level B10d according to EN/ISO 13489-1		mechanical load	cycles 20000000
Mirror contacts according to IEC/EN 60947-4-1		YES	
EMC compatibility		YES	
AC coil operating			
Rated AC voltage at 50/60Hz		V	110
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up		min	%Us 75
		max	%Us 115
drop-out		min	%Us 20
		max	%Us 55
of 50/60Hz coil powered at 60Hz			
pick-up		min	%Us 80
		max	%Us 115
drop-out		min	%Us 20
		max	%Us 55
AC average coil consumption at 20°C			
of 50/60Hz coil powered at 50Hz		in-rush	VA 30
		holding	VA 4
of 50/60Hz coil powered at 60Hz		in-rush	VA 25
		holding	VA 3
of 60Hz coil powered at 60Hz		in-rush	VA 30
		holding	VA 4

Dissipation at holding $\leq 20^{\circ}\text{C}$ 50Hz		W	0.9
Max cycles frequency			
Mechanical operation		cycles/h	3600
Operating times			
Average time for $U_s$ 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		min	ms 7
		max	ms 17
in DC			
Closing NO		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
		max	ms 17
UL technical data			
General USE			
Contactor		AC current	A 160
Contact rating of auxiliary contacts according to UL			A600 - Q600
Ambient conditions			
Temperature			
Operating temperature		min	$^{\circ}\text{C}$ -50
		max	$^{\circ}\text{C}$ +70
Storage temperature		min	$^{\circ}\text{C}$ -60
		max	$^{\circ}\text{C}$ +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° 60947-5-1  
IEC/EN 60947-1  
IEC/EN 60947-5-1  
UL 60947-1  
UL 60947-5-1

### Certificates

CCC  
cULus  
EAC

## ETIM classification

ETIM 8.0

EC000196 -  
Contactor relay