



Auxiliary  
contactor  
BG00

Product designation

Product type designation

**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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Operational current  $I_e$

AC-1 ( $\leq 40^\circ\text{C}$ )	A	160
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Short-time allowable current for 10s (IEC/EN60947-1)

A	0
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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	0.59
max	lbin	0.74

Tightening torque for coil terminal

min	Nm	0.8
max	Nm	1
min	lbft	0.8
max	lbft	0.74

Max number of wires simultaneously connectable

nr.	2
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Conductor section

Flexible w/o lug conductor section

min	mm <sup>2</sup>	0.75
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 when wired

**Mechanical features**

Operating position

normal allowable	vertical plan $\pm 30^\circ$
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Fixing

Screw / DIN rail  
35mm

Weight

g	222
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**Auxiliary contact characteristics**

Type of contact	2 NO + 2 NC		
Thermal current Ith	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	
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**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	true		
EMC compatibility	Yes		

**AC coil operating**

Rated AC voltage at 50/60Hz, 60Hz

	min	V	12
	max	V	575

AC operating voltage 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 ≤20°C 50Hz

	W	0.9	
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**DC coil operating**

DC rated control voltage

	min	V	6
	max	V	250

DC operating voltage

pick-up

	min	%Us	75
	max	%Us	115

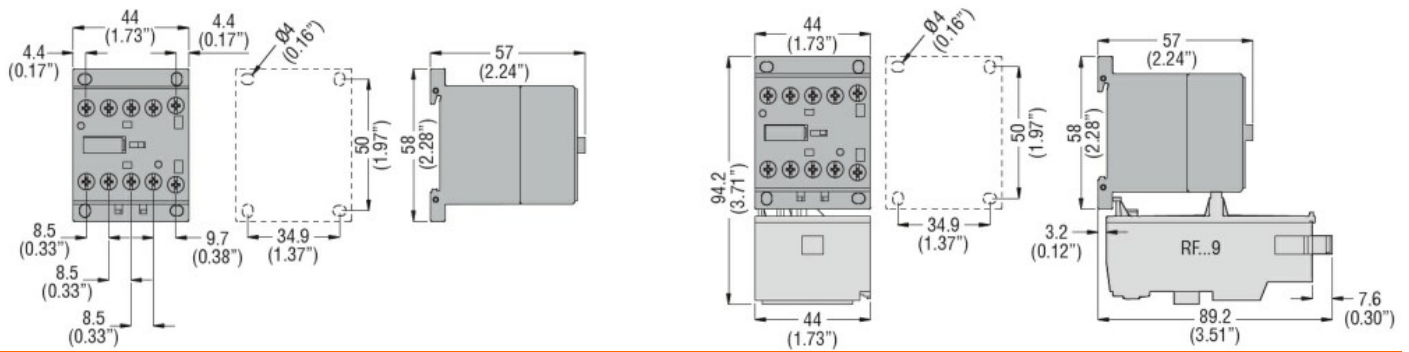
drop-out

	min	%Us	10
	max	%Us	20

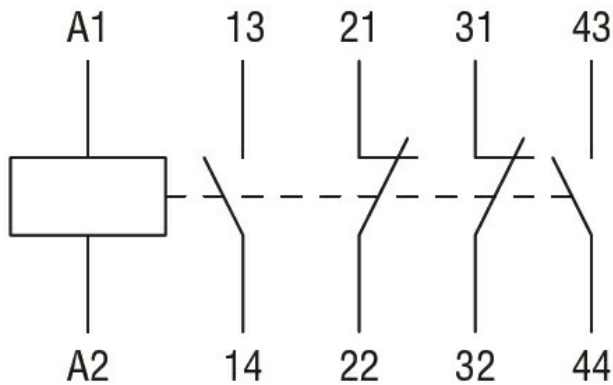
Average coil consumption ≤20°C

	in-rush	W	3.2
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		holding	W	3.2
<b>Max cycles frequency</b>				
Mechanical operations			cycles/h	3600
<b>Operating times</b>				
Average time for Us 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
<b>UL technical data</b>				
Contact rating of auxiliary contacts according to UL				A600 - Q600
General USE				
	Contactor			
		AC current	A	160
<b>Ambient conditions</b>				
Temperature				
	Operating temperature			
		min	°C	-40
		max	°C	60
	Storage temperature			
		min	°C	-55
		max	°C	70
Max altitude			m	3000
<b>Resistance &amp; Protection</b>				
Pollution degree				3
<b>Dimensions</b>				



**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**

cULus

EAC

**ETIM 6 classification**

EC000066 - Power contactor, AC switching