



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	
Operational current $I_e$	AC-1 ( $\leq 40^\circ\text{C}$ )	A 160	
		A 0	
Short-time allowable current for 10s (IEC/EN60947-1)	A	0	
Protection fuse	gG (IEC)	A 16	
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	
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	vertical plan
	allowable	$\pm 30^\circ$
Fixing		Screw / DIN rail 35mm
Weight	g	179

**Auxiliary contact characteristics**

Type of contact				4 NO
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

**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

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 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
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	holding	VA	4
Dissipation at holding $\leq 20^{\circ}\text{C}$ 50Hz		W	0.95

**DC coil operating**

DC rated control voltage	min	V	6
	max	V	250

Average coil consumption $\leq 20^{\circ}\text{C}$	in-rush	W	3.2
	holding	W	3.2

**Max cycles frequency**

Mechanical operations	cycles/h	3600
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**Operating times**

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

**UL technical data**

Contact rating of auxiliary contacts according to UL	A600 - Q600
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**General USE**

Contactor	AC current	A	160
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**Ambient conditions**

Temperature			
Operating temperature			
	min	$^{\circ}\text{C}$	-40
	max	$^{\circ}\text{C}$	60
Storage temperature			
	min	$^{\circ}\text{C}$	-55
	max	$^{\circ}\text{C}$	70

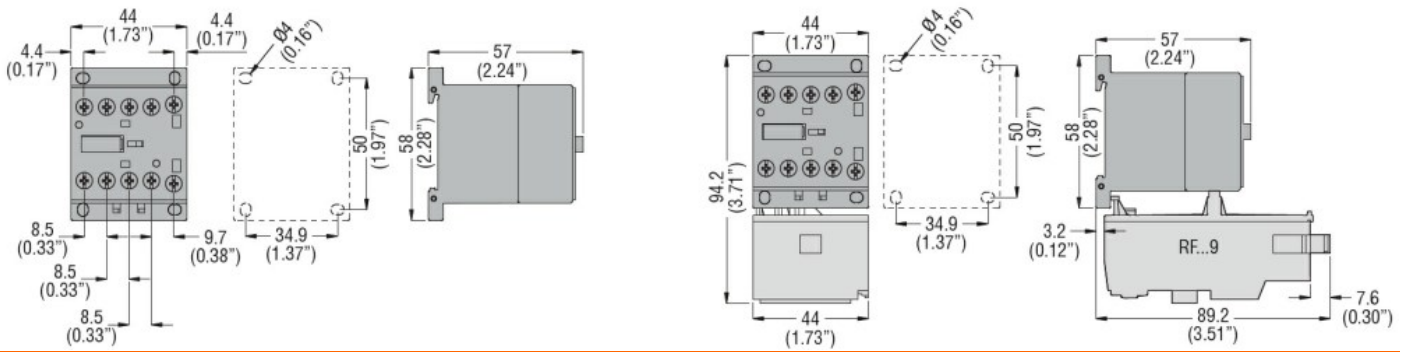
Max altitude	m	3000
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**Resistance & Protection**

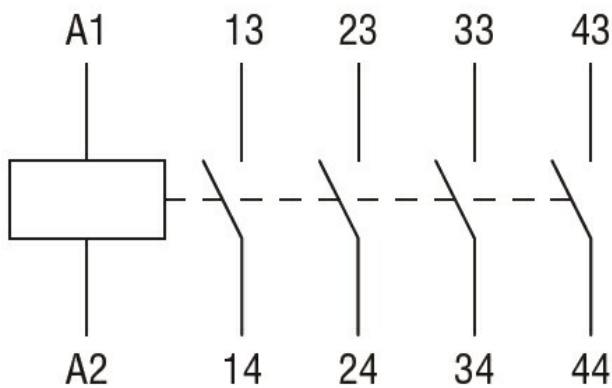
Pollution degree

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**

cULus

EAC

**ETIM 6 classification**

EC000066 - Power contactor, AC switching