



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	0.6
max	lbin	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 simultaneously connectable

nr.	2
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Conductor section

Flexible w/o lug conductor section

min	mm ²	0.8
max	mm ²	2.5

Flexible c/w lug conductor section

min	mm ²	1.5
max	mm ²	2.5

Flexible with insulated spade lug conductor section

min	mm ²	1.5
max	mm ²	2.5

Power terminal protection according to IEC/EN 60529

IP20

Mechanical features

Operating position

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

Screw / DIN rail 35mm

Weight

g	200
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Auxiliary contact characteristics

Type of contact	4 NO		
Thermal current I _{th}	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

true

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	%U _s	75
max	%U _s	115

drop-out

min	%U _s	20
max	%U _s	55

of 50/60Hz coil powered at 60Hz
pick-up

min	%U _s	80
max	%U _s	115

drop-out

min	%U _s	20
max	%U _s	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
holding	VA	4

Dissipation at holding $\leq 20^{\circ}\text{C}$ 50Hz	W	0.9
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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

Ambient conditions

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

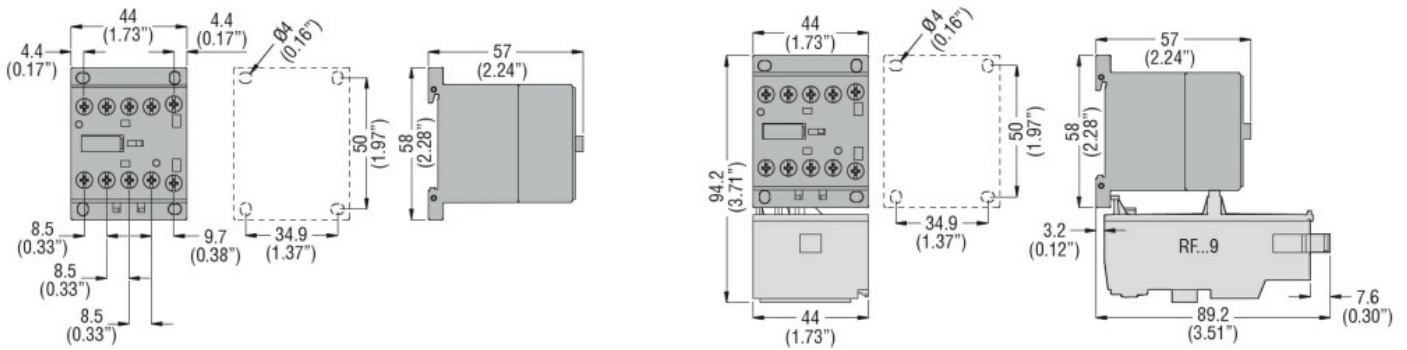
Storage temperature	min	$^{\circ}\text{C}$	-55
	max	$^{\circ}\text{C}$	70

Max altitude	m	3000
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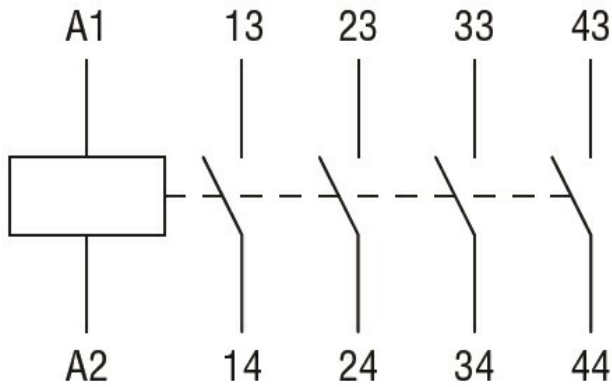
Resistance & Protection

Pollution degree	3
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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 6 classification

EC000066 - Power contactor, AC switching