



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
--	---	----

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	0.6
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
--	-----	---

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 $\pm 30^\circ$
------------------	------------------------------

Fixing

Screw / DIN rail
35mm

Weight

g 200

Auxiliary contact characteristics

Type of contact	2 NO + 2 NC
-----------------	-------------

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	%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	
	holding	VA	4	
Dissipation at holding ≤20°C 50Hz		W	0.9	
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

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

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

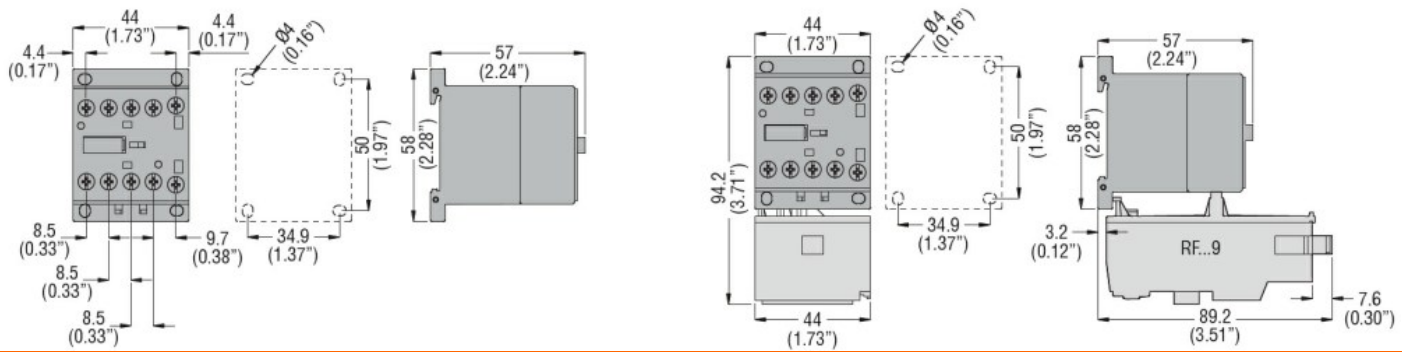
m 3000

Resistance & Protection

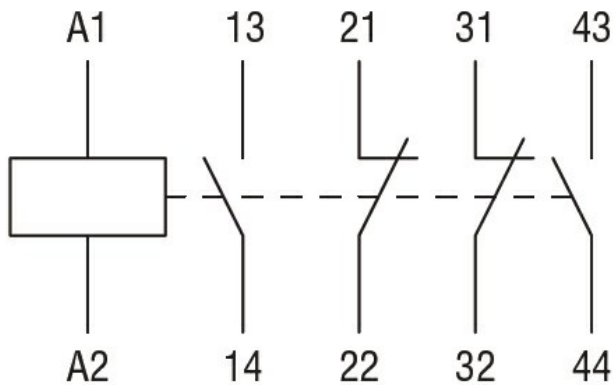
Pollution degree

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