



Auxiliary
contactor
BG00

Product designation

Product type designation

Contact characteristics

Number of poles	nr.	4
Rated insulation voltage U_i	V	690
Rated impulse withstand voltage U_{imp}	kV	6

Operating frequency

Operational frequency min	Hz	25
Operational frequency max	Hz	400

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	lbft	0.59
max	lbft	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

AWG

min	18
max	12

Flexible w/o lug conductor section

min	mm ²	0.75
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 when wired
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Auxiliary contact characteristics

Type of contact	4 NO
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Thermal current I_{th}	A	10
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IEC/EN 60947-5-1 designation	A600 - Q600
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Operating current AC15

230V	A	3
400V	A	1.9

Operating current DC12	500V	A	1.4
Operating current DC13	110V	A	2.9
	24V	A	2.9
	48V	A	1.4
	60V	A	1.1
	110V	A	Screw / DIN rail 35mm
	125V	A	0.3
	220V	A	0.1
	600V	A	0.6

Ambient conditions

Temperature

Operating temperature

min	°C	-40
max	°C	60

Storage temperature

min	°C	-55
max	°C	70

Max altitude

m	3000
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Operating position

normal allowable	Vertical plan ±30°
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Mounting

Screw / DIN rail 35mm

Weight

g	0.182
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Operations

Mechanical life

Cycles	20000000
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Safety related data

Performance level B10d according to EN/ISO 13489-1

mechanical load	Cicli	20000000
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EMC compatibility

yes

AC coil operating

AC operating voltage

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

min	%Us	0.75
max	%Us	1.15

drop-out

min	%Us	0.2
max	%Us	0.55

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

min	%Us	0.8
max	%Us	1.15

drop-out

min	%Us	0.2
max	%Us	0.55

of 60Hz coil powered at 60Hz
pick-up

min	%Us	0.75
max	%Us	1.15

drop-out

	min	%Us	0.2
	max	%Us	0.55
AC operating voltage			
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	0.95

DC coil operating

DC operating voltage			
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 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

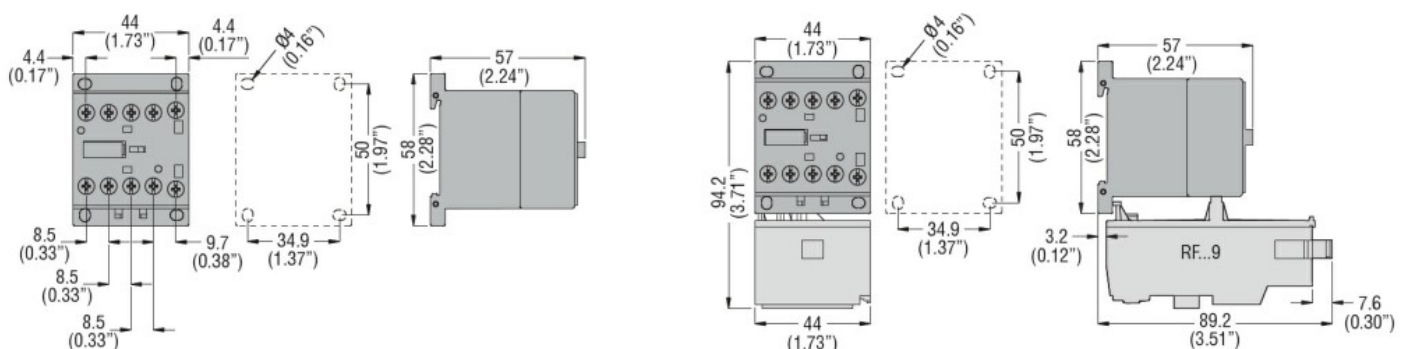
UL technical data

Contact rating of auxiliary contacts according to UL	A600 - Q600
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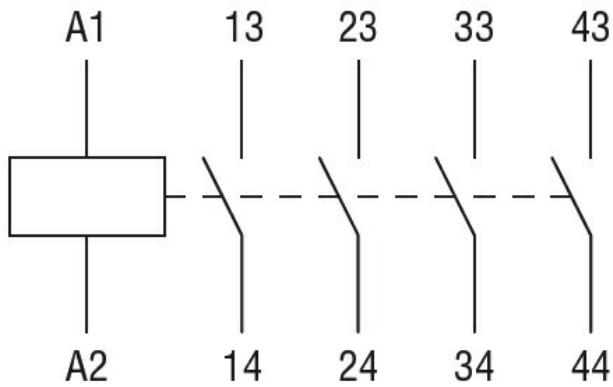
Other features

Pollution degree	3
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Dimensions



Wiring diagrams



Certifications and compliance

Certifications

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

Compliance

CCC

cULus

EAC

ETIM 6 classification

EC000066 - Power contactor, AC switching