



Auxiliary
contactor
BGF00

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	9
	max	lbin	9

Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	lbin	9
	max	lbin	9

Max number of wires simultaneously connectable	Nr.	2
--	-----	---

Conductor section	AWG/Kcmil		
	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
---	-----------------

Mechanical features

Operating position	normal allowable	Vertical plan ±30°
Fixing		Screw / DIN rail 35mm
Weight	g	180

Conductor section

AWG/kcmil conductor section

max 12

Auxiliary contact characteristics

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 1.1
125V A 0.3
220V A 0.1
600V A 0.6

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 YES

EMC compatibility yes

AC coil operating

Rated AC voltage at 60Hz V 48

AC operating voltage

of 60Hz coil powered at 60Hz
pick-up

min %Us 75
max %Us 115

drop-out

min %Us 20
max %Us 55

AC average coil consumption 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 0.95

Max cycles frequency

Mechanical operation cycles/h 3600

Operating times

Average time for U_s control

in AC

Closing NO

in DC	Opening NO	min	ms	12
		max	ms	21
	Closing NC	min	ms	9
		max	ms	18
	Opening NC	min	ms	17
		max	ms	26
		min	ms	7
		max	ms	17
	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	°C	-50
max	°C	+70

Storage temperature

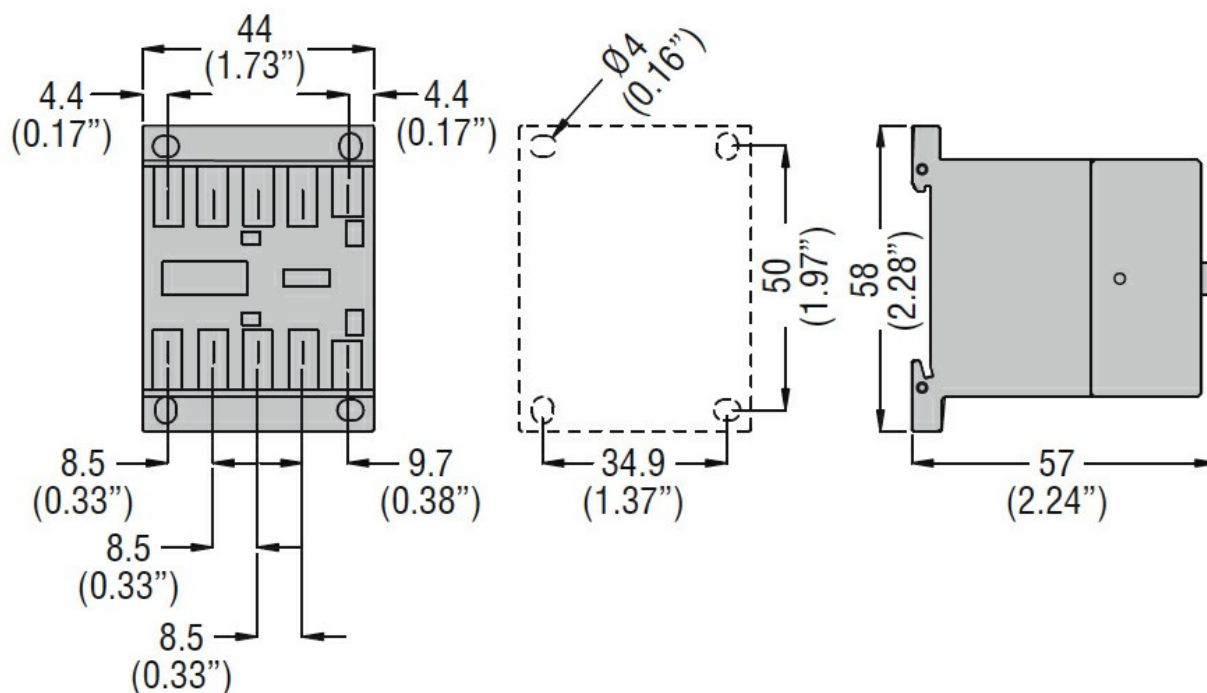
min	°C	-60
max	°C	+80

Max altitude m 3000

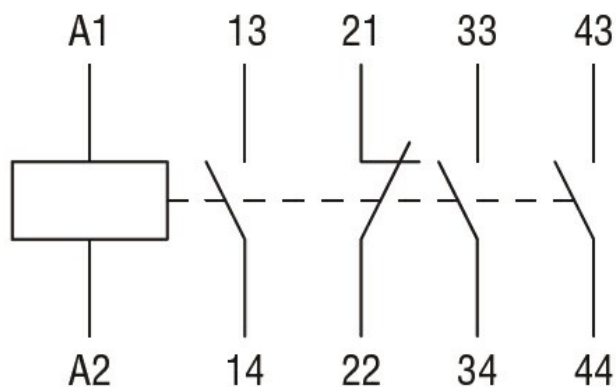
Resistance & Protection

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

CCC
cULus
EAC

ETIM classification

ETIM 8.0

EC000196 -
Contactor relay