



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 max	Hz Hz 25 400
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 max min max	Nm Nm lbin lbin 0.8 1 9 9
Tightening torque for coil terminal	min max min max	Nm Nm lbin lbin 0.8 1 9 9
Max number of wires simultaneously connectable	Nr.	2

Conductor section

AWG/Kcmil

	max	12
Flexible w/o lug conductor section	min max	mm ² mm ² 0.75 2.5
Flexible c/w lug conductor section	min max	mm ² mm ² 1.5 2.5
Flexible with insulated spade lug conductor section	min max	mm ² mm ² 1.5 2.5

Power terminal protection according to IEC/EN 60529 IP20 when wired

Mechanical features

Operating position

	normal allowable	Vertical plan $\pm 30^\circ$
Fixing		Screw / DIN rail 35mm
Weight	g	222

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
-------------------	-----

DC coil operating

DC rated control voltage	V	125
--------------------------	---	-----

DC operating voltage

pick-up

min	%U _s	75
max	%U _s	115

drop-out

min	%U _s	10
max	%U _s	25

Average coil consumption ≤20°C

in-rush	W	3.2
holding	W	3.2

Max cycles frequency

Mechanical operation	cycles/h	3600
----------------------	----------	------

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
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

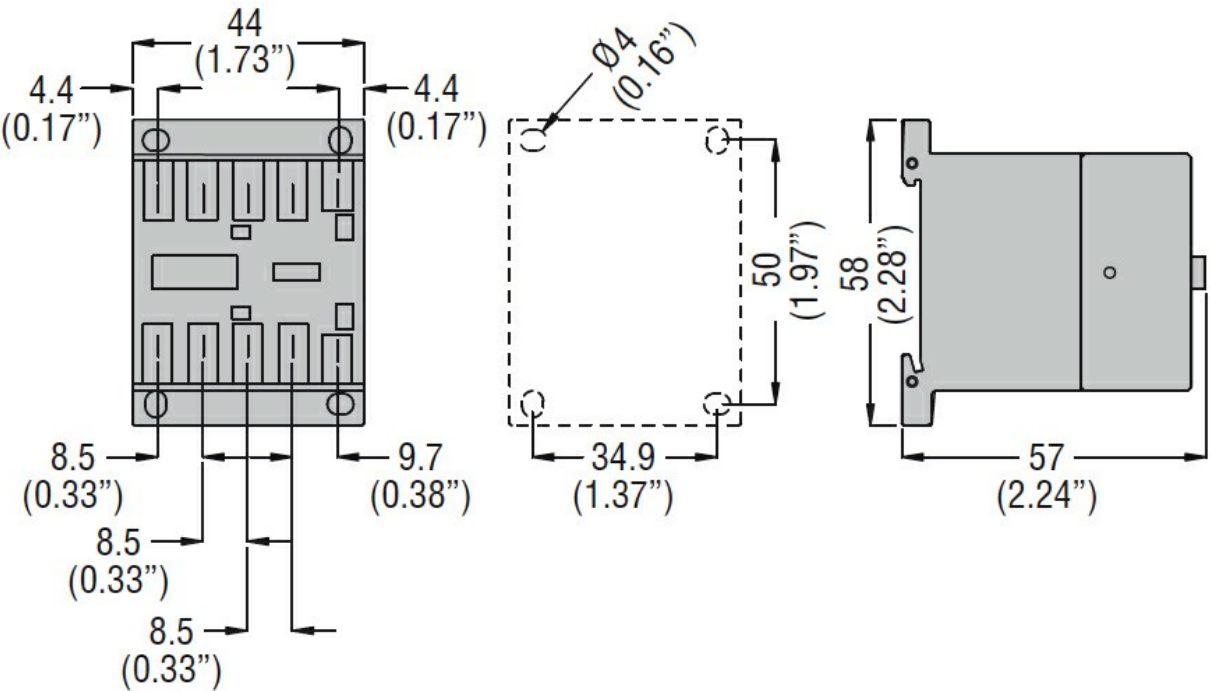
Temperature				
Operating temperature				
		min	°C	-50
		max	°C	+70
Storage temperature				
		min	°C	-60
		max	°C	+80

Max altitude m 3000

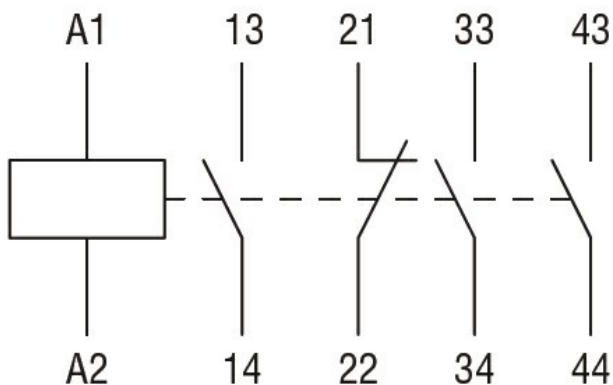
Resistance & Protection

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
----------	-------------------------------