



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	Ibin 9
	max	Ibin 9
Tightening torque for coil terminal	min	Nm 0.8
	max	Nm 1
	min	Ibin 9
	max	Ibin 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 properly 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 50/60Hz				V	48
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 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 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

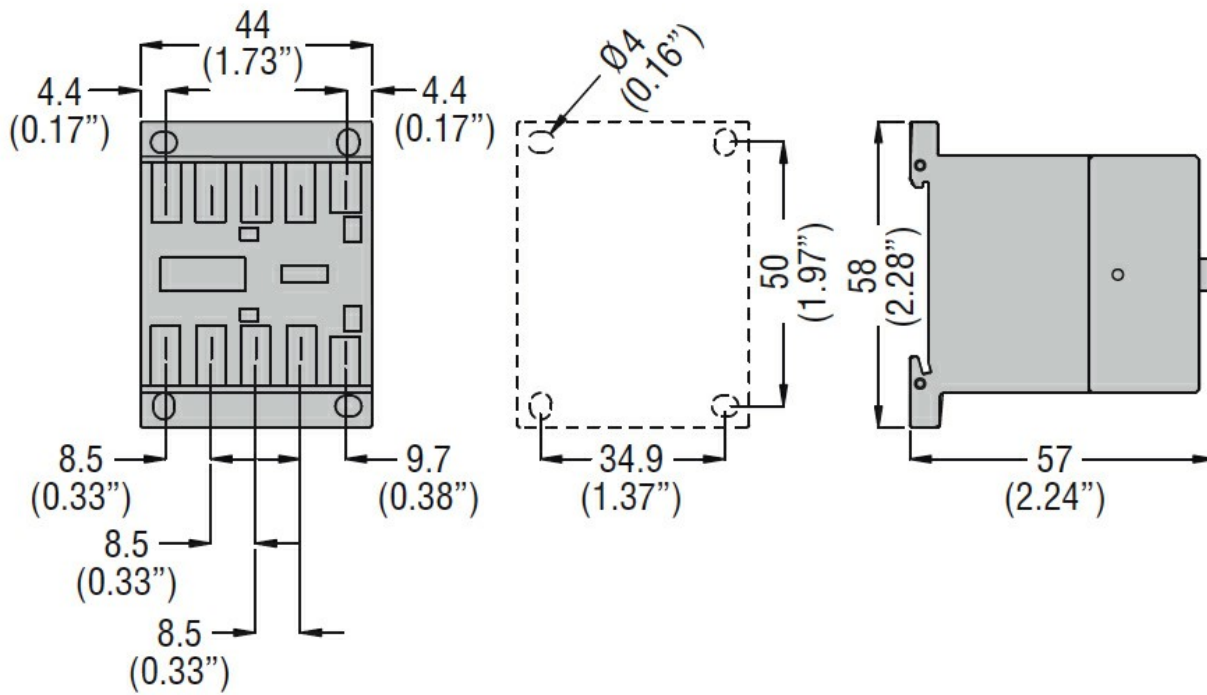
Temperature		
Operating temperature	min	°C -50
	max	°C +70
Storage temperature	min	°C -60
	max	°C +80

Max altitude m 3000

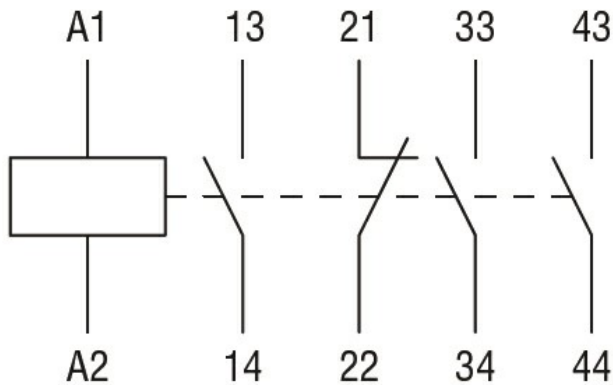
Resistance & Protection

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