



Product designation				Auxiliary contactor
Product type designation				BGF00
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
		min	mm ²	1.5
		min	mm ²	1.5
Power terminal protection according to IEC/EN 60529				IP20 when properly wired
Mechanical features				
Operating position	normal allowable			Vertical plan $\pm 30^\circ$
				Screw / DIN rail 35mm
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	120
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	

		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
<hr/>				
	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

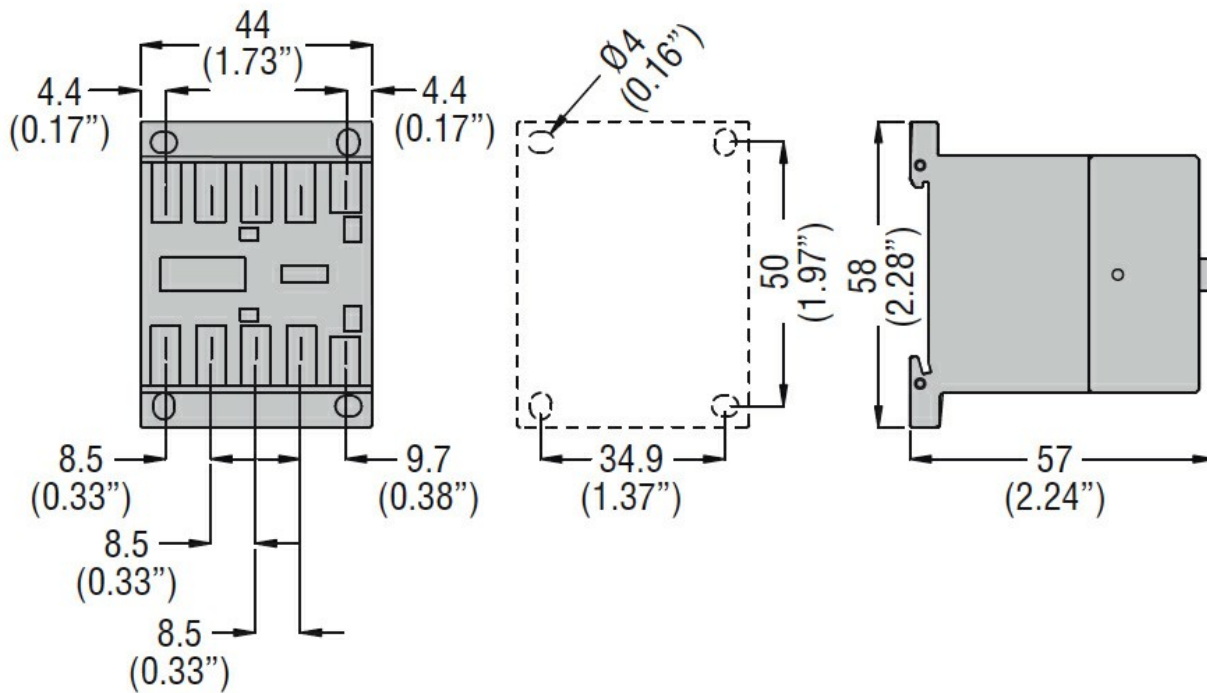
m 3000

Resistance & Protection

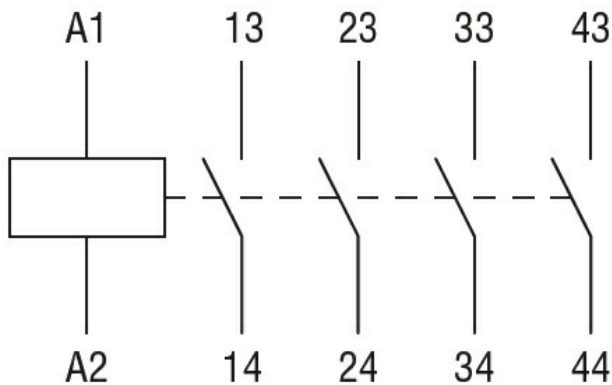
Pollution degree

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