



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
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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
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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
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Mechanical features

Operating position	normal allowable	Vertical plan ±30°
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Fixing	Screw / DIN rail 35mm
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Weight	g	206
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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	48
DC operating voltage					
	pick-up			min	%Us 75
				max	%Us 115
	drop-out			min	%Us 10
				max	%Us 25
Average coil consumption ≤20°C				in-rush	W 2.3
				holding	W 2.3
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

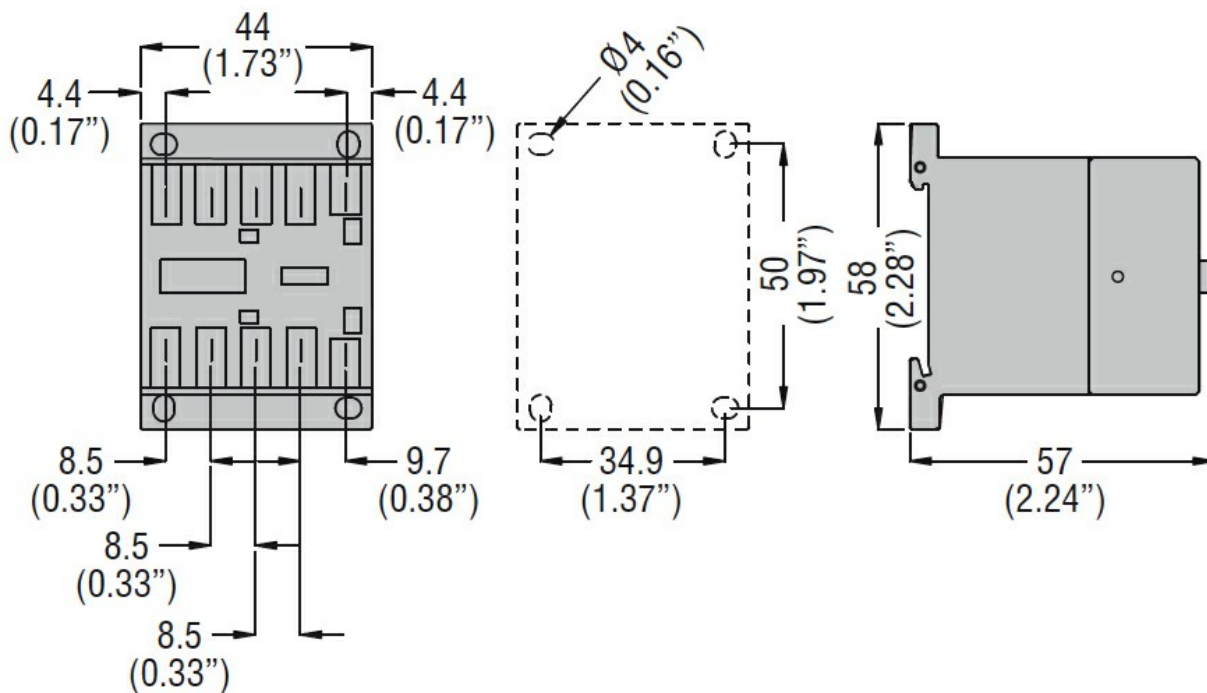
m 3000

Resistance & Protection

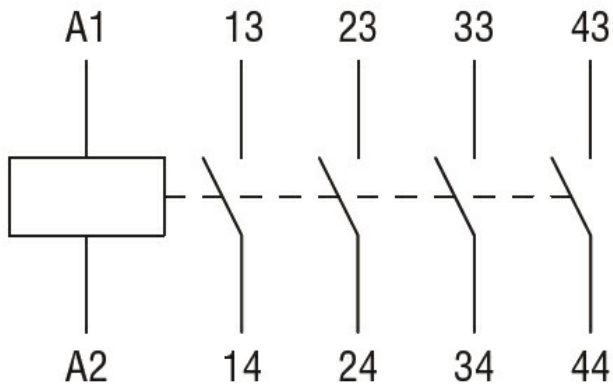
Pollution degree

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