



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 181
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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	
AC coil operating					
Rated AC voltage at 50/60Hz				V	230
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
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Max cycles frequency

Mechanical operation	cycles/h	3600
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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
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Ambient conditions

Temperature

Operating temperature				
min	°C	-50		
max	°C	+70		

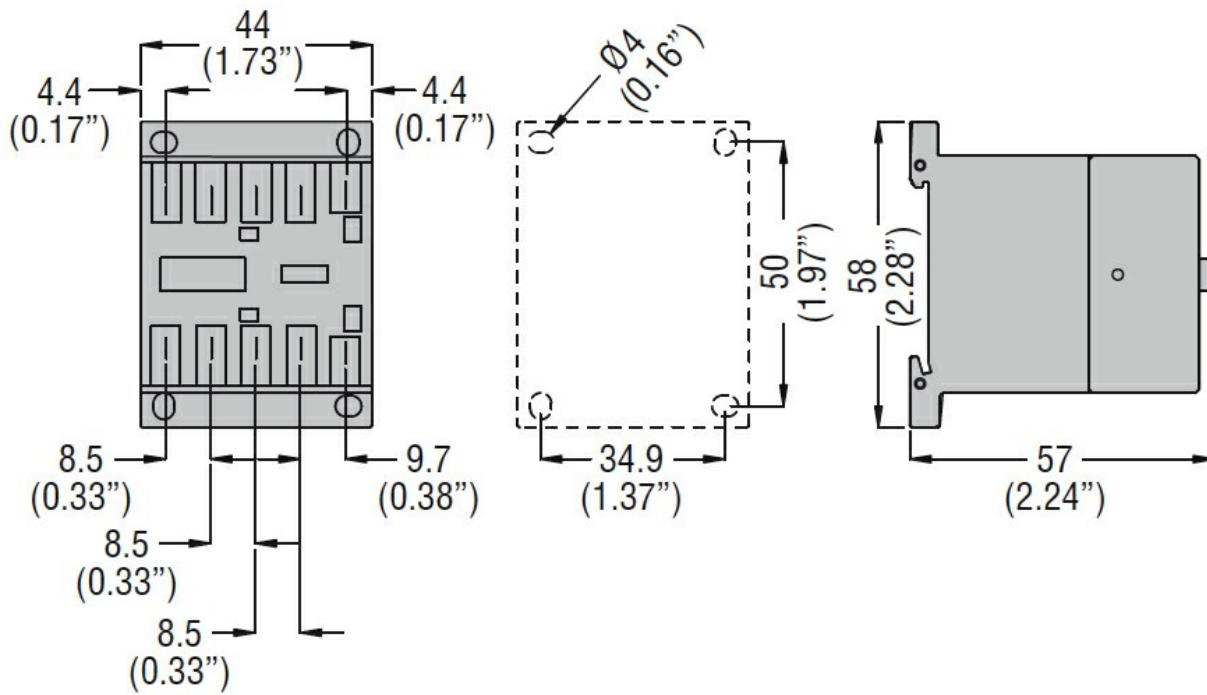
Storage temperature				
min	°C	-60		
max	°C	+80		

Max altitude	m	3000
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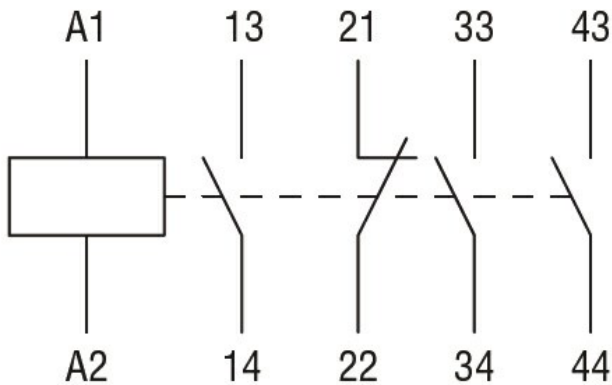
Resistance & Protection

Pollution degree	3
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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