



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	180
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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
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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 400

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		
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Mechanical operation	cycles/h	3600
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Operating times		
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Average time for Us control		
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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		
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Contact rating of auxiliary contacts according to UL	A600 - Q600
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Ambient conditions		
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Temperature		
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Operating temperature				
	min	°C	-50	
	max	°C	+70	

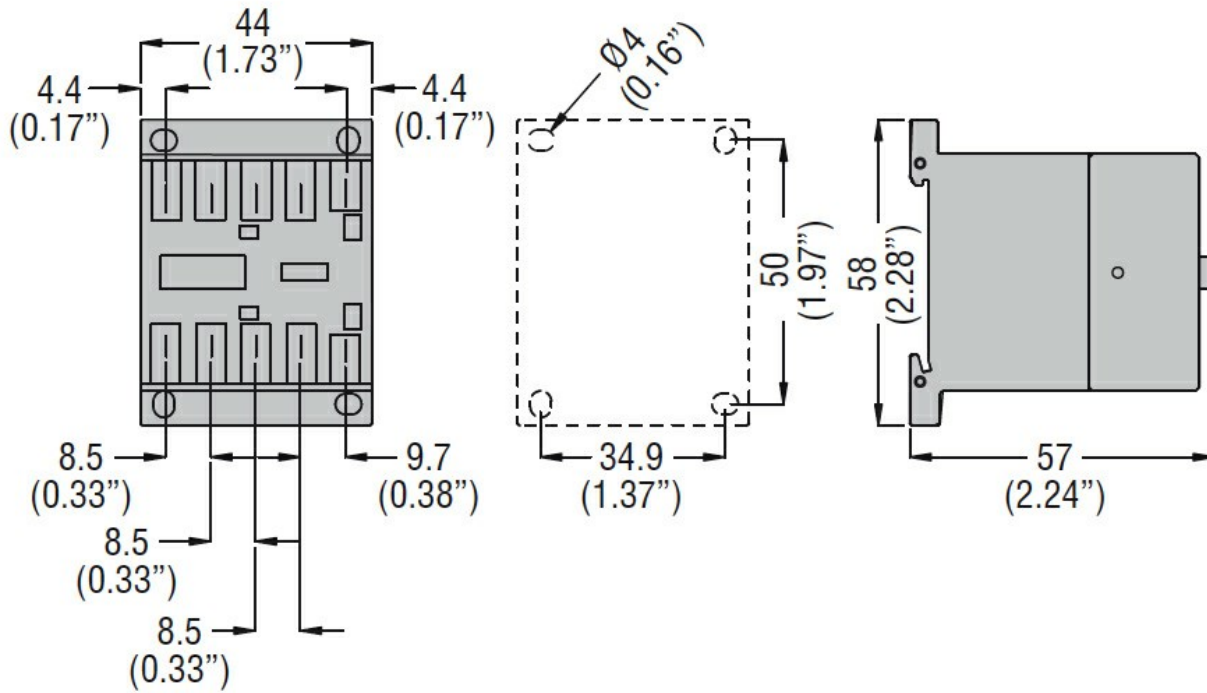
Storage temperature				
	min	°C	-60	
	max	°C	+80	

Max altitude	m	3000
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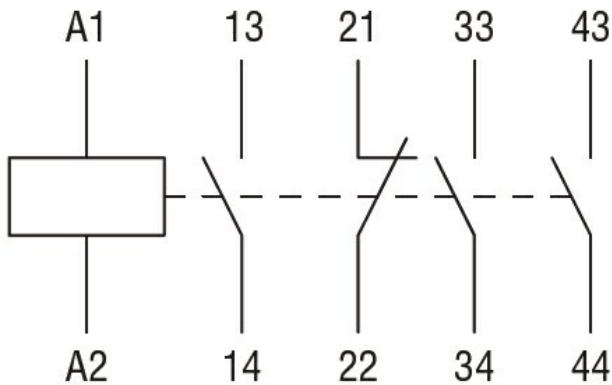
Resistance & Protection		
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Pollution degree		3
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Dimensions		
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Wiring diagrams



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