



Auxiliary
contactor
BF00

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
Operational current I_e	AC-1 ($\leq 55^\circ\text{C}$) A	0
Protection fuse	gG (IEC) A	25
Tightening torque for terminals	min Nm	1.5
	max Nm	1.8
	min lbin	1.1
	max lbin	1.5
Tightening torque for coil terminal	min Nm	0.8
	max Nm	1
	min lbin	0.8
	max lbin	0.74
Max number of wires simultaneously connectable	Nr.	2
Conductor section	AWG/Kcmil	
	max	10
Flexible w/o lug conductor section	min mm^2	1
	max mm^2	6
Flexible c/w lug conductor section	min mm^2	1
	max mm^2	4
Flexible with insulated spade lug conductor section	min mm^2	1
	max mm^2	4
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	496	
Auxiliary contact characteristics			
Thermal current I _{th}	A	10	
IEC/EN 60947-5-1 designation	A600 - P600		
Operating current AC15	230V	A	3
	400V	A	1.9
	500V	A	1.4
Operating current DC12	110V	A	5.7
Operating current DC13	24V	A	5.7
	48V	A	2.9
	60V	A	2.3
	110V	A	1.25
	125V	A	1.1
	220V	A	0.55
	600V	A	0.2
Operations			
Mechanical life	cycles	20000000	
Safety related data			
Performance level B10d according to EN/ISO 13489-1			
	mechanical load	cycles	20000000
EMC compatibility	yes		
AC coil operating			
AC operating voltage			
	of 50/60Hz coil powered at 50Hz drop-out		
	max	%U _s	55
DC coil operating			
DC rated control voltage	V	48	
DC operating voltage			
	pick-up		
	min	%U _s	80
	max	%U _s	110
	drop-out		
	min	%U _s	10
	max	%U _s	40
Average coil consumption ≤20°C			
	in-rush	W	2.4
	holding	W	2.4
Max cycles frequency			
Mechanical operation	cycles/h	3600	
Operating times			
Average time for U _s control			
	in DC		
	Closing NO		
	min	ms	75
	max	ms	91
	Opening NO		
	min	ms	15

Closing NC	max	ms	19
	min	ms	24
Opening NC	max	ms	30
	min	ms	67
	max	ms	81

UL technical data

Rated operational voltage AC (UL)	V	600
General USE		

Auxiliary contacts

	AC current	A	10
Contact rating of auxiliary contacts according to UL			A600 - P600

Ambient conditions

Temperature

Operating temperature

min	°C	-50
max	°C	70

Storage temperature

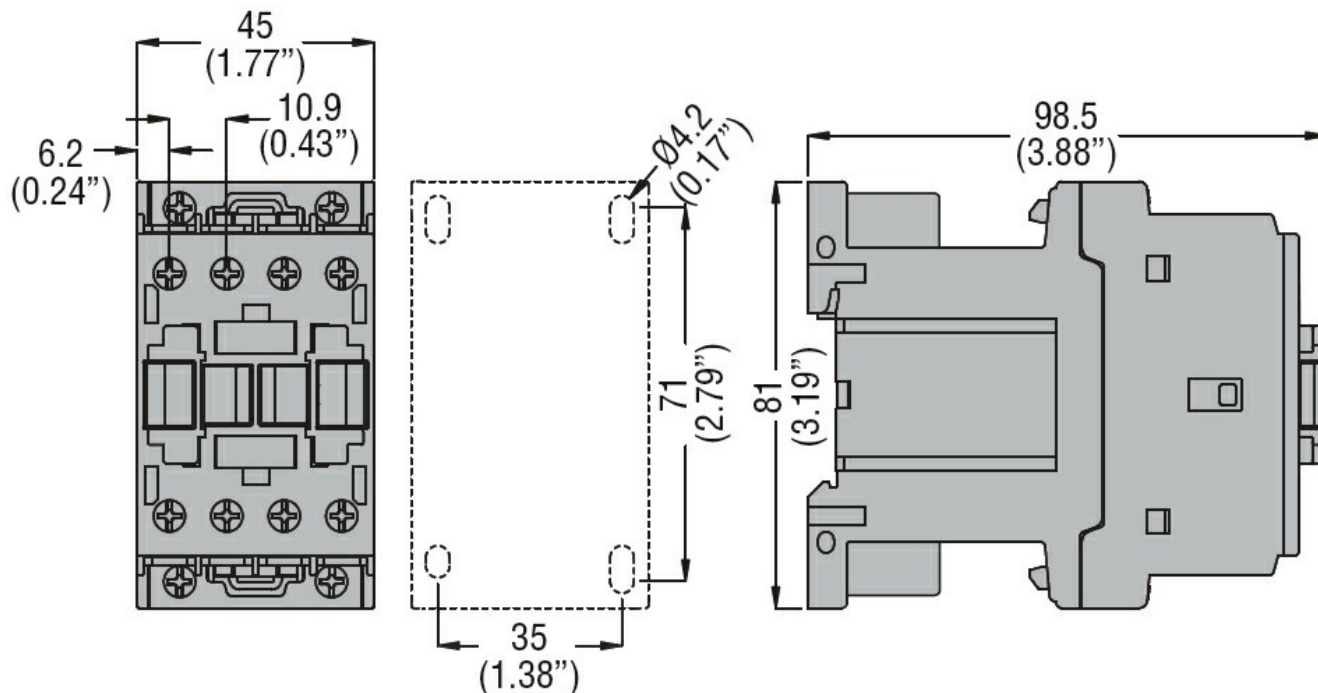
min	°C	-60
max	°C	80

Max altitude	m	3000
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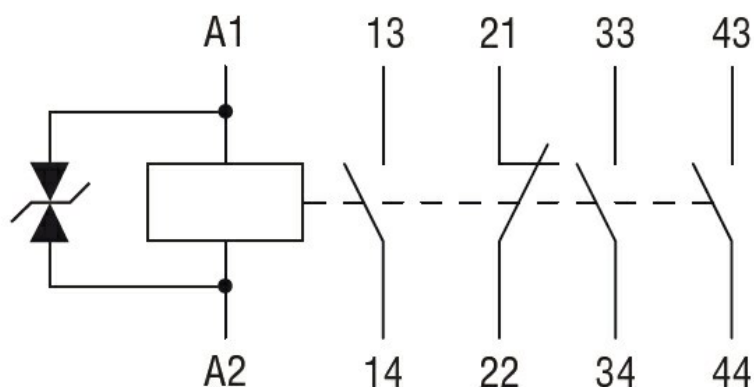
Resistance & Protection

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