



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

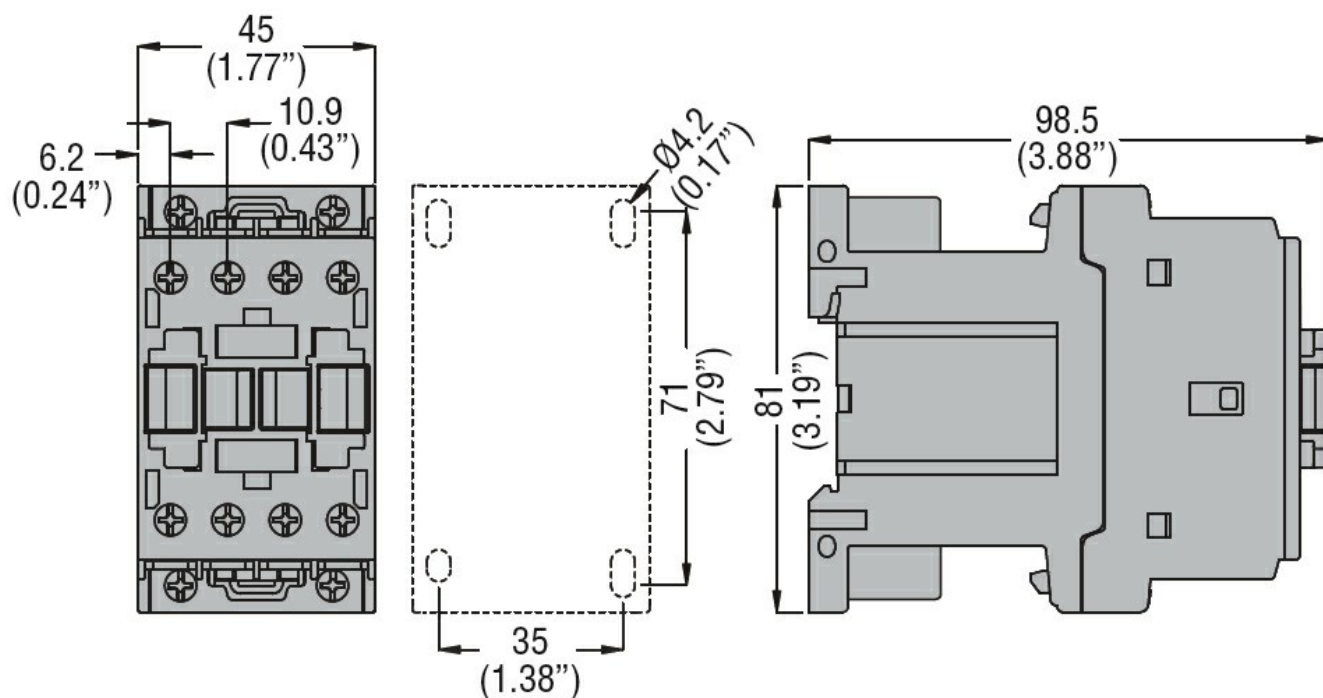
Operating position

normal
allowable

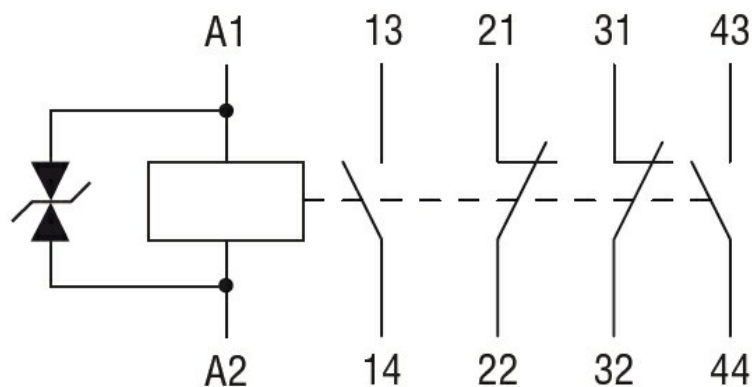
Vertical plan
 $\pm 30^\circ$

Fixing	Screw / DIN rail 35mm		
Weight	g	490	
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		
DC coil operating			
DC rated control voltage	V	12	
DC operating voltage			
pick-up	min	%U _s	70
	max	%U _s	125
drop-out	min	%U _s	10
	max	%U _s	40
Average coil consumption ≤20°C	in-rush	W	5.4
	holding	W	5.4
Max cycles frequency			
Mechanical operation	cycles/h	3600	
Operating times			
Average time for U _s control			
in DC			
Closing NO	min	ms	54
	max	ms	66
Opening NO	min	ms	14
	max	ms	17
Closing NC	min	ms	24
	max	ms	30
Opening NC	min	ms	47

		max	ms	57
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
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