



### General characteristics

Number of poles	Nr.	3
Overvoltage category		III
Pollution degree		3
Frontal IP degree		IP20
Type of release		Thermal
Protection fuse		
	gG (IEC)	A 50
	aM (IEC)	A 25
	RK5 (UL)	A 90
Phase failure detection		yes
Reset mode		Manual or automatic

### Power circuit characteristics

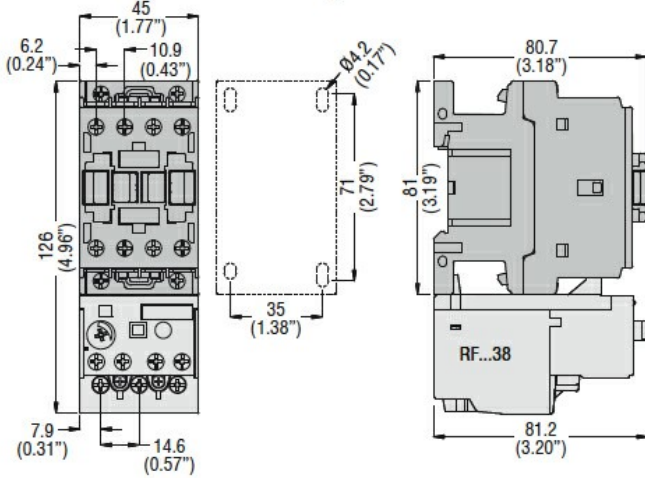
Rated insulation voltage $U_i$ IEC/EN	V	690
Rated impulse withstand voltage $U_{imp}$	kV	6
Rated operational voltage	V	690
Operational frequency		
	min	Hz 0
	max	Hz 400
Operational current $I_e$		
	Operational current min	A 17
	Operational current max	A 23
Tripping class		10A
Test Button		Yes
Trip indicator		yes
Terminals		
	type	screw and washer
	screw	M4
	width	mm 12.6
	tool	Phillips 2
Tightening torque for terminals		
	min	Nm 2
	max	Nm 2.5
	min	Ibin 1.5
	max	Ibin 1.8
Conductor section		
	Flexible w/o lug max	mm <sup>2</sup> 10
	Flexible c/w lug max	mm <sup>2</sup> 6
	AWG/kcmil max	8

### Auxiliary circuit characteristics

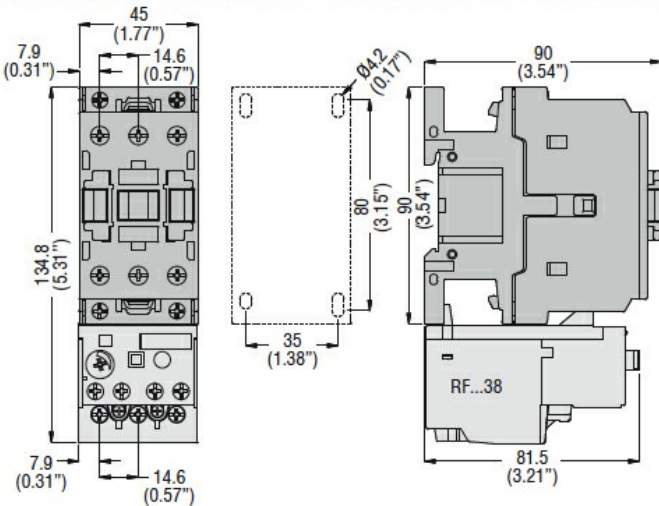
Auxiliary contacts		
	NO	Nr. 1
	NC	Nr. 1

Auxiliary Rated insulation voltage $U_i$ IEC/EN	V	690
Auxiliary Rated impulse withstand voltage $U_{imp}$	kV	6
Auxiliary Rated operational voltage	V	690
Operating current AC15		
	24V	A 3
	120V	A 3
	240V	A 1.5
	380V	A 0.95
	480V	A 0.75
	500V	A 0.72
	600V	A 0.6
Operating current DC13		
	125V	A 0.11
	600V	A 0.22
IEC Conventional free air thermal current $I_{th} \leq 40^\circ\text{C}$	A	10
Terminals		
	Auxiliary circuit type	screw and washer
	Auxiliary circuit screw	M3.5
	Auxiliary circuit width	mm 8
	Auxiliary circuit tool	Phillips 2
Conductor section		
	Auxiliary circuit Flexible w/o lug max	mm <sup>2</sup> 2.5
	Auxiliary circuit Flexible c/w lug max	mm <sup>2</sup> 2.5
Tightening torque for terminals		
	Auxiliary circuit min	Nm 0.8
	Auxiliary circuit max	Nm 1
	Auxiliary circuit min	Ibin 0.59
	Auxiliary circuit max	Ibin 0.74
UL/CSA and IEC/EN 60947-5-1 designation		B600-R300
<b>Ambient conditions</b>		
Operating temperature		
	min	$^\circ\text{C}$ -25
	max	$^\circ\text{C}$ 60
Storage temperature		
	min	$^\circ\text{C}$ -50
	max	$^\circ\text{C}$ 70
Compensation temperature		
	min	$^\circ\text{C}$ -20
	max	$^\circ\text{C}$ 60
Max altitude	m	3000
<b>Mechanical features</b>		
Operating position	normal allowable	Vertical plan $\pm 30^\circ$
Fixing		Direct mounting on BF09... BF38...
Weight	g	160
<b>UL technical data</b>		
Full-load current (FLA) for three-phase AC motor		
	at 480V	A 23
	at 600V	A 23
<b>Dimensions</b>		

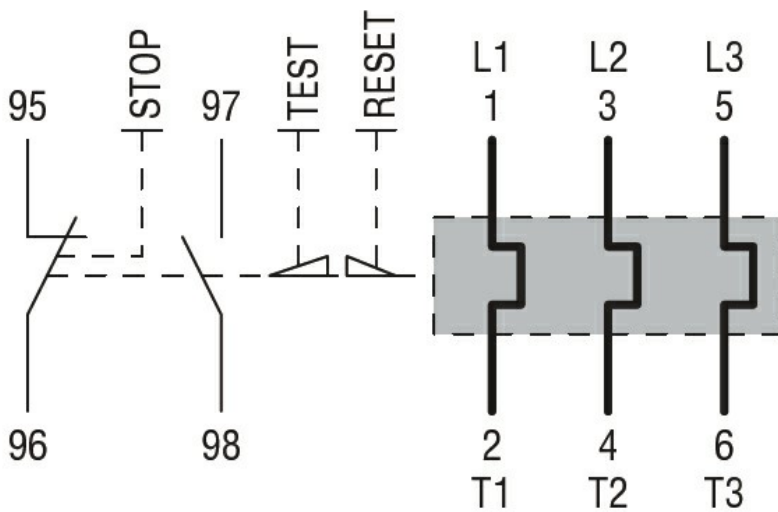
**BF00 A... BF09 A... - BF12 A... - BF18 A... - BF25 A...** three poles with **RF...38** thermal overload relay



**BF26 00A... - BF32 00A... - BF38 00A...** three poles with **RF...38** thermal overload relay



**Wiring diagrams**



**Certifications and compliance**

**Compliance**

CSA C22.2 n° 14

IEC/EN 60947-1

IEC/EN 60947-4-1

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UL508

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Certifications

CCC

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cULus

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EAC

ETIM classification

ETIM 8.0

EC000106 -  
Thermal overload  
relay