



### 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 100
	aM (IEC)	A 50
	K5 (UL)	A 175
Phase failure detection		yes
Reset mode		Automatic

### Power circuit characteristics

Rated insulation voltage $U_i$ IEC/EN	V	690
Rated impulse withstand voltage $U_{imp}$	kV	8
Rated operational voltage	V	690
Operational frequency		
	min	Hz 0
	max	Hz 400

Operational current $I_e$		
	Operational current min	A 35
	Operational current max	A 50

Tripping class		10A
Test Button		Yes
Trip indicator		yes

Terminals		
	type	Yoke clamp
	screw	M5
	width	mm 9
	tool	Phillips 2

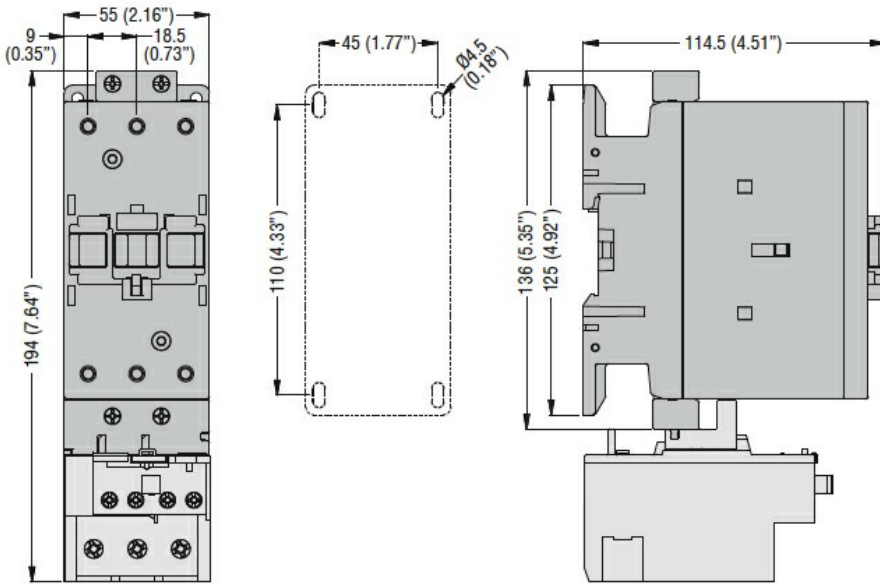
Tightening torque for terminals		
	min	Nm 3.9
	max	Nm 3.9
	min	Ibin 2.88
	max	Ibin 2.88

Conductor section		
	AWG/kcmil max	2

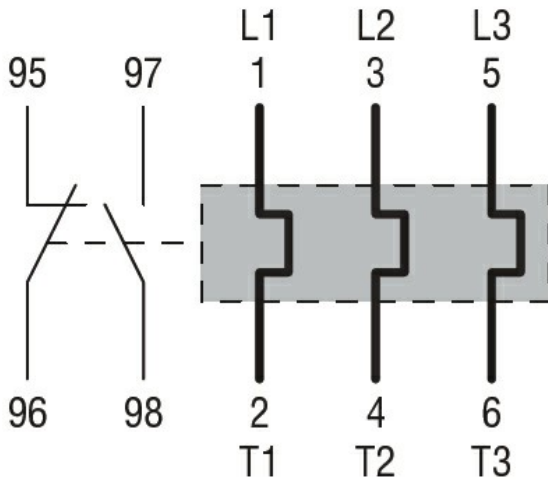
### Auxiliary circuit characteristics

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	1.5
	120V	A	1.5
	240V	A	0.75
IEC Conventional free air thermal current I <sub>th</sub> ≤ 40°C		A	10
<b>Terminals</b>			
	Auxiliary circuit type		screw and washer
	Auxiliary circuit screw		M3,5
	Auxiliary circuit width	mm	8
	Auxiliary circuit tool		Phillips 1
<b>Conductor section</b>			
	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
<b>Tightening torque for terminals</b>			
	Auxiliary circuit min	Nm	1
	Auxiliary circuit max	Nm	1
	Auxiliary circuit min	lbin	0.74
	Auxiliary circuit max	lbin	0.74
UL/CSA and IEC/EN 60947-5-1 designation			C300-R300
<b>Ambient conditions</b>			
<b>Operating temperature</b>			
	min	°C	-20
	max	°C	55
<b>Storage temperature</b>			
	min	°C	-55
	max	°C	80
<b>Compensation temperature</b>			
	min	°C	-15
	max	°C	55
Max altitude		m	3000
<b>Mechanical features</b>			
<b>Operating position</b>			
	normal allowable		Vertical plan ±30°
Fixing			Direct mounting on BF40... BF94...
Weight		g	365
<b>UL technical data</b>			
<b>Full-load current (FLA) for three-phase AC motor</b>			
	at 480V	A	50
	at 600V	A	50
<b>Dimensions</b>			



**Wiring diagrams**



**Certifications and compliance**

**Compliance**

CSA C22.2 n° 14

IEC/EN 60947-1

IEC/EN 60947-4-1

UL508

**Certifications**

cULus

**ETIM classification**

ETIM 8.0

EC000106 -  
Thermal overload  
relay