



Product designation

RFE45

Product type designation

Motor protection
relay

General characteristics

Number of poles	Nr.	3
Overvoltage category		III
Pollution degree		3
Frontal IP degree		IP20
Type of release		Electronic thermal
Protection fuse		
	gG (IEC)	A 63
	aM (IEC)	A 40
Phase failure detection		yes
Reset mode		Manual or automatic

Power circuit characteristics

Rated insulation voltage Ui IEC/EN	V	1000
Rated impulse withstand voltage Uimp	kV	6
Rated operational voltage	V	690
Operational frequency		
	min	Hz 50
	max	Hz 60
Operational current Ie		
	Operational current min	A 6.4
	Operational current max	A 32
Tripping class		5 - 10 - 20 - 30
Test Button		Yes
Trip indicator		yes
Terminals		

type	screw and washer
screw	M4
width	mm 12
tool	Phillips 2

Tightening torque for terminals

min	Nm	3.1
max	Nm	3.1
min	Ibin	2.3
max	Ibin	2.3

Conductor section

AWG/kcmil max	6
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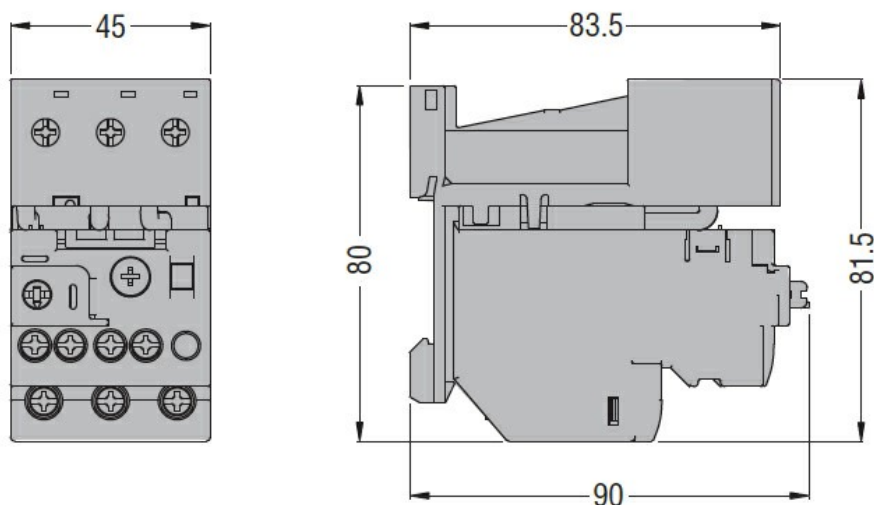
Auxiliary circuit characteristics

Auxiliary contacts

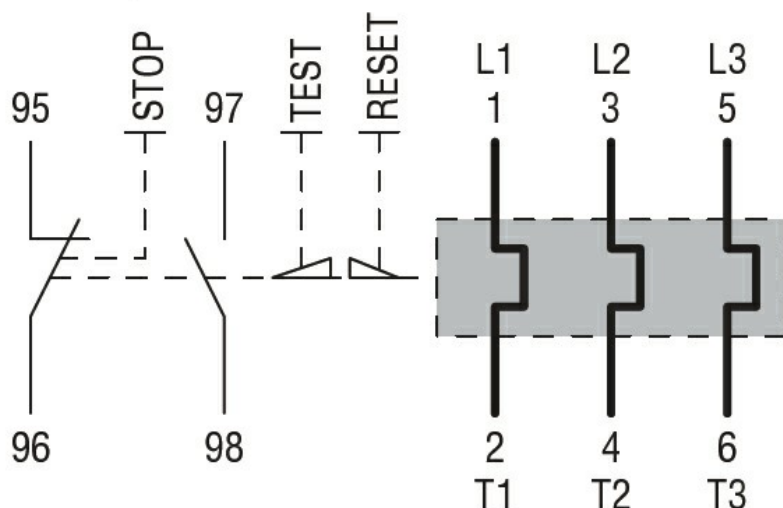
NO	Nr.	1
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	NC	Nr.	1
Auxiliary Rated insulation voltage U_i IEC/EN		V	690
Auxiliary Rated impulse withstand voltage U_{imp}		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15			
	24V	A	3
	120V	A	3
	240V	A	1.5
	380V	A	0.95
	480V	A	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}		A	10
Terminals			
	Auxiliary circuit type		screw and washer
	Auxiliary circuit screw		M3,5
	Auxiliary circuit width	mm	7
	Auxiliary circuit tool		Phillips 2
Conductor section			
	Auxiliary circuit Flexible w/o lug max	mm ²	2.5
	Auxiliary circuit Flexible c/w lug max	mm ²	2.5
Tightening torque for terminals			
	Auxiliary circuit min	Nm	0.8
	Auxiliary circuit max	Nm	0.8
	Auxiliary circuit min	lbin	0.6
	Auxiliary circuit max	lbin	0.6
UL/CSA and IEC/EN 60947-5-1 designation			B600-R300
Ambient conditions			
Operating temperature			
	min	°C	-25
	max	°C	70
Storage temperature			
	min	°C	-55
	max	°C	80
Compensation temperature			
	min	°C	-25
	max	°C	70
Max altitude		m	3000
Mechanical features			
Operating position			
	normal allowable		Vertical plan ±30°
Fixing			Direct mounting on BF09... BF38...
Weight		g	195
UL technical data			
Full-load current (FLA) for three-phase AC motor			
	at 480V	A	32
	at 600V	A	32

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1
CSA C22.2 n° 60947-4-1
IEC/EN 60947-1; IEC/EN 60947-4-1
UL 60947-1
UL 60947-4-1

Certifications

cULus

ETIM classification

ETIM 8.0

EC001080 -
Electronic
overload relay