

## **RFE454500** ELECTRONIC THERMAL OVERLOAD RELAY, PHASE FAILURE/SINGLE-PHASE SENSITIVE. THREE-POLE (THREE-PHASE), MANUAL OR AUTOMATIC RESETTING, 9...45A



Product designation			RFE45
Product type designation			Motor protection relay
General characteristics			
Number of poles		Nr.	3
Overvoltage category			
Pollution degree			3
Frontal IP degree			IP20
Type of release			Electronic thermal
Protection fuse			
	gG (IEC)	А	63
	aM (IEC)	А	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 le			
	Operational current min	А	9
	Operational current max	A	45
Tripping class			5 - 10 - 20 - 30
Test Button			Yes
Trip indicator			yes
Terminals			_
	type		screw and
			washer
	screw width	mm	M4 12
	tool	mm	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
Auxiliary circuit characteristics			
Auxiliary contacts			
	NO	Nr.	1

RFE454500



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	NC	Nr.	1
Auxiliary Rated insulation voltage Ui IEC/EN	NC	V	690
Auxiliary Rated impulse withstand voltage Uimp		kV	6
Auxiliary Rated operational voltage		V	690
Operating current AC15		•	
	24V	А	3
	120V	A	3
	240V	А	1.5
	380V	А	0.95
	480V	А	0.75
	500V	А	0.72
	600V	А	0.6
Operating current DC13			
	125V	А	0.11
	600V	А	0.22
IEC Conventional free air thermal current Ith		А	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	mm²	2.5
	Auxiliary circut Flexible c/w lug max	mm²	2.5
Tightening torque for terminals			
	Auxiliary circuit min	Nm	0.8
	Auxiliary circuit max	Nm	0.8
	Auxiliary circuit min	Ibin	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		Vertical plan
	allowable		±30°
			Direct mounting
Fixing			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

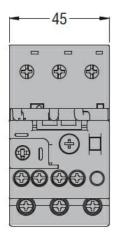
RFE454500

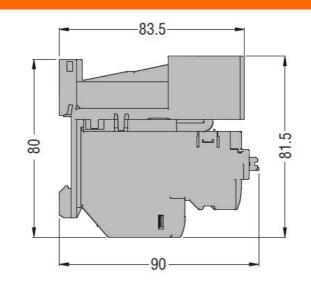


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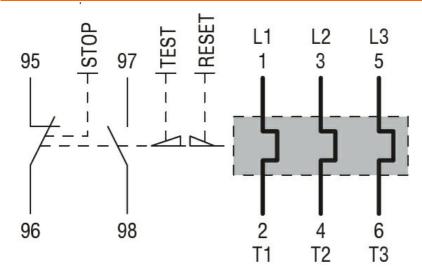
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Dimensions





## 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		
		EC001080 -
ETIM 8.0		Electronic

Electronic overload relay

RFE454500