

Product designation				RFE110
Product type designation				Motor protection relay
<b>General characteristics</b>				
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	200
		aM (IEC)	A	125
Phase failure detection				Yes
Reset mode				Manual or automatic
<b>Power circuit characteristics</b>				
Rated insulation voltage $U_i$ IEC/EN		V	1000	
Rated impulse withstand voltage $U_{imp}$		kV	6	
Rated operational voltage		V	690	
Operational frequency		min	Hz	50
		max	Hz	60
Operational current $I_e$		Operational current min	A	22
		Operational current max	A	110
Tripping class				5 - 10 - 20 - 30
Test Button				Yes
Trip indicator				Yes
Terminals		type	Yoke clamp	
		screw	M6	
		width	mm	9
		tool	Allen key 4	
Tightening torque for terminals		min	Nm	9
		max	Nm	9
		min	lbin	6.6
		max	lbin	6.6
<b>Auxiliary circuit characteristics</b>				
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

Operating current DC13	600V	A	0.6
	125V	A	0.11
	600V	A	0.22
IEC Conventional free air thermal current I <sub>th</sub>		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 <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	0.8
	Auxiliary circuit min	Ibin	0.6
	Auxiliary circuit max	Ibin	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°
		Independent mounting

Fixing Independent mounting

Weight g 195

**UL technical data**

Full-load current (FLA) for three-phase AC motor	at 480V	A	110
	at 600V	A	110

**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