

			EMR4-N100-1-B	EMR4-N500-2-B	EMR4-N500-2-A
General					
Standards			IEC/EN 60255-6, EN 61557, UL, CSA, GL		
Lifespan, mechanical	Operations	$\times 10^6$	30	30	30
Climatic proofing			Damp heat, cyclical to IEC 60068-2-30: 24 h cycle, 55° C, 93% relative humidity, 96 h		
Ambient temperature	Open	°C	-20...60	-25...65	-25...65
	Storage	°C	-20...80	-20...85	-20...85
Mounting position			As required	As required	As required
Mechanical shock resistance		g	10	10	10
Degree of protection	Terminals		IP 20	IP 20	IP 20
Weight		kg	0.15	0.3	0.3
Terminal capacities	Solid	mm ²	2 × 2.5	2 × 2.5	2 × 2.5
	Flexible with ferrule	mm ²	2 × 2.5/2 × AWG14	2 × 2.5/2 × AWG14	2 × 2.5/2 × AWG14
Standard screwdriver		mm	5.5 × 0.8	5.5 × 0.8	5.5 × 0.8
Tightening torque		Nm	0.5 – 0.8	0.5 – 0.8	0.5 – 0.8
Fixing			Snap fixing, top-hat rail IEC/EN 60715		
Contacts					
Rated impulse withstand voltage	U_{imp}	V AC	4000	4000	4000
Overvoltage category/pollution degree			III/3	III/3	III/3
Rated insulation voltage	U_i	V AC	400	400	400
Power supply					
Supply voltage AC/DC		V AC/DC			24/240
Supply voltage AC		V AC	220...240	220...240	
Voltage tolerance		$\times U_c$	0.85 – 1.1	0.85 – 1.1	0.85 – 1.1
Power consumption		VA	2.5	3	2
Rated frequency		Hz	50 – 60	50 – 60	50 – 60
Duty factor		% DF	100	100	100
Timing cycle					
Response delay time		s		Adjustable, 0.1 – 10	
Reset delay/Off-delay time		s		Adjustable, 0.1 – 10	
Measuring circuits					
Sensor inputs	B1		Earth reference sensor		
	B2		Maximum level		
	B3		Minimum level		
Response range		kΩ	5 – 100	5 – 100	5 – 100
Sensor voltage		V AC	30	20	20
Reset range		kΩ	1.32.3		
Sensor current		mA	1		
Cable capacity		nF	10		
Cable length		m	100		
Response delay/On-delay		ms	250		
Status indication					
Supply voltage			LED, green	LED, green	LED, green
Output relay energized			LED, yellow	LED, yellow	LED, yellow
Relay output contacts					
Rated operational voltage	U_e	V AC	250	400	400
Rated operational current	AC-12 at 230 V	I_e	4	5	5
	AC-15 with 230 V	I_e	3	3	3
	DC-12 at 24 V	I_e	4	5	5
	DC-13 at 24 V	I_e	2	2.5	2.5
Lifespan, electrical (AC-12/230 V/5 A)	Operations	$\times 10^6$	0.3	0.1	0.1
Short-circuit rating					
max. fuse	Fast/gL	A	10	5	5
Load limit curves			→ Engineering		
Electromagnetic compatibility (EMC)					
Electromagnetic compatibility			IEC/EN 60947-6-2		
ESD			IEC/EN 61000-4-2 level 3		
HF-immunity to radiation			IEC/EN 61000-4-3 level 3		
Burst			IEC/EN 61000-4-4 level 3		
Surge			IEC/EN 61000-4-5 Level 4		
HF-immunity to line-conducted interference			IEC/EN 61000-4-6 level 3		

