

					EMR4-RDC-1-A	EMR4-RAC-1-A
General						
Standards					IEC/EN 60255-6, EN 61557, UL, CSA, GL	
Lifespan, mechanical		Operations	$\times 10^6$		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		-25...65	-25...65
		Storage	°C		-20...85	-20...85
Mounting position					As required	As required
Mechanical shock resistance					g	10
Degree of protection		Terminals			IP 20	IP 20
Weight			kg		0.3	0.3
Terminal capacities	Solid		mm ²		2 × 2.5	2 × 2.5
	Flexible with ferrule		mm ²		2 × 2.5/2 × AWG14	2 × 2.5/2 × AWG14
Standard screwdriver			mm		5.5 × 0.8	5.5 × 0.8
Tightening torque			Nm		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
Overvoltage category/pollution degree					III/3	III/3
Rated insulation voltage		U_i	V AC		400	400
Power supply						
Supply voltage AC/DC			V AC/DC		24/240	24/240
Voltage tolerance			$\times U_c$		0.85 – 1.1	0.85 – 1.1
Power consumption			VA		5.5	4.5
Rated frequency			Hz		50 – 60	50 – 60
Duty factor			% DF		100	100
Timing cycle						
Time delay/Delay time	At $R_{isolation}$		s		1	1
	$\times$ response value		s		0.9	0.9
Measuring circuits						
Input					L+, L-, PE	L, PE
Response range			k Ω		10 – 110	1 – 11
Min. internal resistance of alternating current			k Ω			100
Min. internal resistance of direct current			k Ω			100
Minimum internal resistance			k Ω		57	
Test resistance			k Ω			0.82
Insulation voltage	AC		V AC			415
	DC		V DC		300	
Voltage being monitored/test voltage			V		24 – 240	≤ 30
Cable length for cancellation- and test button			m		10	10
Status indication						
Supply voltage					LED, green	LED, green
Error					LED, yellow	LED, red
Fault at L+					LED, red	LED, red
Fault at L-					LED, red	LED, red
Relay output contacts						
Rated operational voltage		U_e	V AC		400	320
Rated operational current	AC-12 at 230 V	I_e	A		5	5
	AC-15 with 230 V	I_e	A		3	3
	DC-12 at 24 V	I_e	A		5	3
	DC-13 at 24 V	I_e	A		2.5	2.5
Lifespan, electrical (AC-12/230 V/5 A)		Operations	$\times 10^6$		0.1	0.1
Short-circuit rating		max. fuse	Fast/gL	A	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	