

		MFS	MBS	MBS	ERS	ERS	ERS	EAS	EAS	AHS	AHS	APS	ARS	VWS	VWS	AWS	AWS	EBS	EBS	TGS	YDAV	YDEW	IRS	
<b>Output circuit</b>		8 functions																						
1 c/o contact				•	•		•	•		•			•	•		•		•						•
2 c/o cont. the 2nd one progr. as an inst. cont.		•	•			•			•	•	•	•	2 c/o		•		•		•				2 c/o	2 c/o
2 N/O contacts																								
Switching voltage	250 V AC	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•
Switching current	4 A	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•
<b>Input circuit</b>																								
Supply voltage	24 V AC/DC		•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•
	42–48 V AC/DC			•		•	•	•	•	•	•	•				•	•	•		•	•	•	•	•
	110–240 V AC		•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•
	380–440 V AC		•	•	•	•																		
	24–240 V AC/DC	•												•										
Supply voltage tolerance		-15 % to +10 %																						
Mains frequency		50 ... 60 Hz																						
Duty		100 %																						
<b>Timing circuit</b>																								
10 time ranges covered by each unit		0.05 – 1 sec. 0.15 – 3 secs	0.5 – 10 secs 1.5 – 30 secs	5.0 – 100 secs 15.0 – 300 secs				0.05 sec. 10 min.	1.5 – 30 min. 15.0 – 300 min.				1.5 – 30 hrs 15.0 – 300 hrs											
Minimum time range	sec.	0.05						0.05	0.05															
Maximum time range	hrs	300						10 min.	300															
Recovery time	< ms			20				20																
Repetitive accuracy	< %	0.2																						
Timing error within tolerance of supply voltage	< %	0.008 % / %ΔU																						
Timing error with variation of ambient temperature	< % / °K	0.07																						
Minimum energising time	ms	80																						
Ambient temp./storage temp. range		-20 °C to +60 °C / -40 °C to +85 °C																						
Control contact $V_1 - Z_2^{(1)} / X_1 - Z_2$		not electrically isolated from input circuit																						
No-load voltage	10 V–40 V DC	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Switching current	< 1 mA	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Max. contact resistance	≤ 1 kΩ	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Remote potentiometer connection $Z_1 / Z_2^{(1)}$	Potentiometer resistance 50 kΩ	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
<b>Display of operating status</b>																								
Supply voltage flashing while timing	LED green	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Output relay 1 energised	LED red	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Output relay 2 energised	LED red	•	•		•			•		•		•		•		•		•		•		•		•
<b>Other details</b>																								
Mode of mounting		snap-on fastening / screw fixing using adaptor																						
Degree of protection	enclosure	IP 50																						
	terminals	IP 20																						
Mounting position		any																						
Mech. life (no. of operations)		30 million																						
Electr. life (resistive load)		0.1 million, 8 A 220 V AC																						
Resistance to shock		10 g/F = 55 Hz/a = ± 0.95 mm, 2 hrs on every plane																						
Operational reliability		5 g																						
Mech. shock resistance		10 g																						
Max. fuse rating		10 AgI																						
Terminal capacities		2 x 2.5 mm <sup>2</sup>																						
Proof voltage input – output circuit		2.5 kV (ARS 2 kV)																						
Weight (approx.)		150 g																						



<sup>1)</sup> No voltage must be applied to control contacts  $Y_1/Z_2 / X_1/Z_2$  and  $Z_1/Z_2$ , not electrically isolated from input circuit.