

Relay Output Module 8 x 30 V DC/230 V AC
Crimp Snap-in Connector, 40-pin
Screw Plug Connector, 20-pin
Screw Plug Connector, 40-pin

(6ES5 451-8MR12)
(6ES5 490-8MA13/-8MA03)
(6ES5 490-8MB21)
(6ES5 490-8MB11)

Technical specifications	
Outputs	8 relay outputs, contact switching varistor SIOV- S07-K275
Galvanic isolation - in groups of	yes 2 with signal status display
Continuous current I_{th}	3 A
Relay type	Dold OW 5699
Switching capacity of the contacts	
- resistive load	max. 3 A at 250 V AC 1.5 A at 30 V DC
- inductive load	max. 0.5 A at 250 V AC 0.5 A at 30 V DC
Operating cycles of the contacts according to VDE 0660, part 200	
- AC - 11	1×10^6
- DC - 11	0.5×10^6
Switching frequency	max. 10 Hz
Fault LED (red)	no input voltage
Permissible ambient temperature of module	
- horizontal arrangement	0 to 60 °C (32 to 140 °F)
- vertical arrangement	0 to 40 °C (32 to 104 °F)
Length of cable - unshielded	max. 100 m (330 ft.)
Insulation rating	VDE 0160
Rated insulation voltage (+ 9 V to L 1)	250 V AC
- insulation group	2 x B
- tested with	1500 V AC
Rated insulation voltage (+ 9 V to \perp)	12 V AC
- insulation group	1 x B
- tested with	500 V AC
Rated insulation voltage (between contacts)	250 V AC
- insulation group	2 x B
- tested with	1500 V AC
Supply voltage L+	
(for the relay)	
- rated value	24 V DC
- ripple V_{PP}	3.6 V
- permissible range (ripple included)	20 to 30 V
- value to $t < 0.5$ s	35 V
Current consumption	
- from + 9 V (CPU)	typ.
- from L+	typ.
Power loss of the module	typ. 30 mA
Weight	approx. 70 mA
	typ. 1.6 W
	approx. 300 g (11 oz.)

