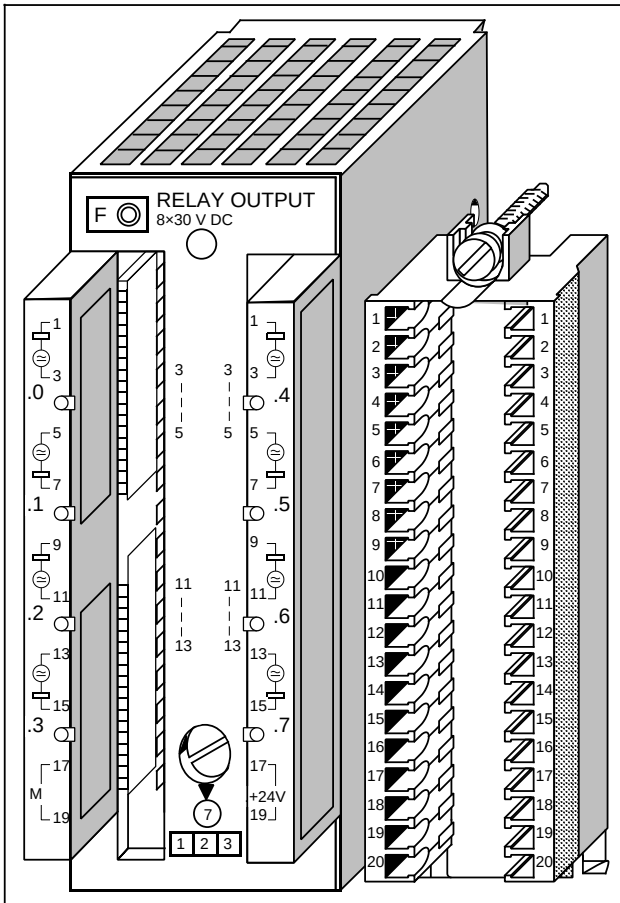
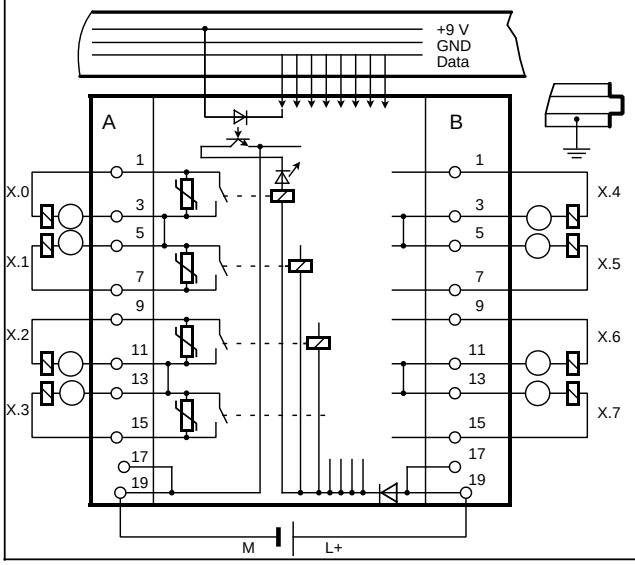
Relay Output Module 8 x 30 V DC/230 V AC **(6ES5 451-8MR12)**
Crimp Snap-in Connector, 40-pin **(6ES5 490-8MA13/-8MA03)**
Screw Plug Connector, 20-pin **(6ES5 490-8MB21)**
Screw Plug Connector, 40-pin **(6ES5 490-8MB11)**





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 - inductive load	 max. max.	 3 A at 250 V AC 1.5 A at 30 V DC 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 - DC - 11		 1 x 10^6 0.5 x 10^6
Switching frequency Fault LED (red)	max.	10 Hz no input voltage
Permissible ambient temperature of module - horizontal arrangement - vertical arrangement		 0 to 60 °C (32 to 140 °F) 0 to 40 °C (32 to 104 °F)
Length of cable - unshielded Insulation rating	 max.	 100 m (330 ft.) VDE 0160
Rated insulation voltage (+ 9 V to L 1) - insulation group - tested with		250 V AC 2 x B 1500 V AC
Rated insulation voltage (+ 9 V to ⏚) - insulation group - tested with		12 V AC 1 x B 500 V AC
Rated insulation voltage (between contacts) - insulation group - tested with		250 V AC 2 x B 1500 V AC
Supply voltage L+ (for the relay) - rated value - ripple V_{PP} - permissible range (ripple included) - value to t <0.5 s	 max.	 24 V DC 3.6 V 20 to 30 V 35 V
Current consumption - from + 9 V (CPU) - from L+	 typ. typ.	 30 mA 70 mA
Power loss of the module	typ.	1.6 W
Weight	approx.	300 g (11 oz.)