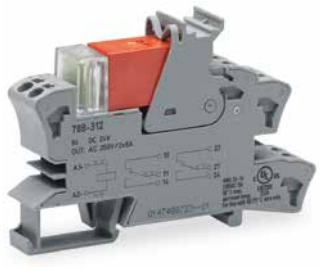
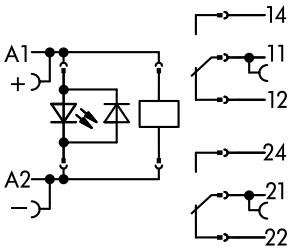
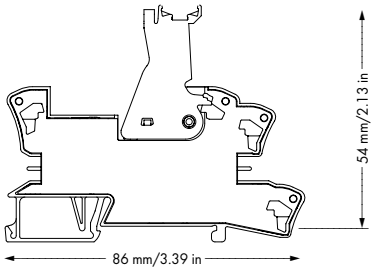
Relay Module
788 Series



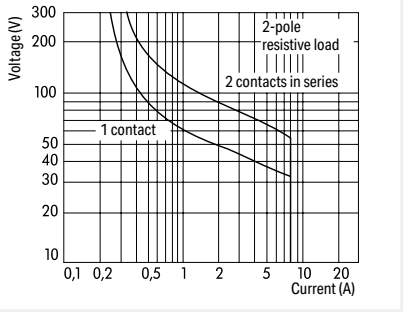


Relay Module; 2 changeover contacts; Limiting continuous current: 8 A; Status indicator: red; 15 mm wide

U_N	I_N	Item No.	Pack. Unit
12 VDC	36 mA	788-311	20
24 VDC	19 mA	788-312	20
48 VDC	11 mA	788-313	20
60 VDC	11 mA	788-314	20
110 VDC	6 mA	788-315	20



Note:
- Reinforced insulation between coil and contacts
- A separator plate (e.g., 209-191) must be used for voltages greater than 250 V between adjacent relay modules and for compliance with the reinforced insulation requirements.
- To protect the relay coils and contacts, inductive loads must be dampened with an effective protection circuit.



DC Load Limit Curve

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Control Circuit	
Input voltage range	±10 %

Load Circuit	
Number of changeover/switchover contacts	2
Contact material	AgNi 90/10
Limiting continuous current	8 A
Inrush current (resistive) max.	15 A (AC) / 4 s
Switching voltage (max.)	250 VAC
Switching power (resistive) max.	2000 VA (AC); DC see load limit curve
Switching capacity	AC 15: 3 A / 250 VAC; DC 13: 2 A / 24 VDC
Recommended minimum load	12 V / 10 mA
Pull-in time (typ.)	8 ms
Drop-out time (typ.)	6 ms
Bounce time (typ.)	10 ms
Electrical life (NO; resistive load; 23 °C)	10 x 10^3 switching operations
Mechanical life	30 x 10^6 switching operations
Switching load with/without load (max.)	6 min^{-1} / 1200 min^{-1}

Signaling	
Status indicator	Red LED

Safety and Protection	
Rated voltage	250 V
Rated surge voltage	4 kV
Pollution degree	3
Dielectric strength, control/load circuit (AC, 1 min)	5 kV_{rms}
Dielectric strength, open contact (AC, 1 min)	1 kV_{rms}
Dielectric strength, load/load circuit (AC, 1 min)	2.5 kV_{rms}
Protection type	IP20

Connection Data	
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Strip length	9 … 10 mm / 0.35 … 0.39 inch

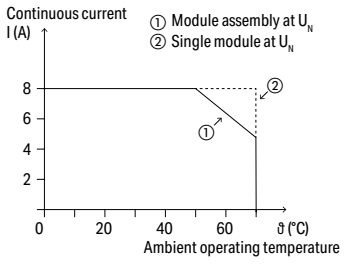
Physical Data	
Width	15 mm / 0.591 inch
Height from upper-edge of DIN-rail	54 mm / 2.126 inch
Depth	86 mm / 3.386 inch

Mechanical Data	
Mounting type	DIN-35 rail

Material Data	
Weight	45.4 g

Environmental Requirements	
Surrounding air temperature (operation at U_N)	−40 … +70 °C
Surrounding air temperature (storage)	−40 … +70 °C
Processing temperature	−25 … +50 °C

Standards and Specifications	
Standards/specifications	EN 61010-2-201; EN 61810-1; EN 61373; UL 508



Current-Carrying Capacity Curve