

Technical Data

INT-22.5R1-24

Power Circuitry

Rated voltage U_N	24 V AC/DC, 115-120V AC, 230V AC
Rated power DC	2.0 W
Rated power AC	2.6 W / 3.2 VA
Residual ripple U_{ss}	2.4 V
Rated frequency	50 to 60 Hz
Operating voltage range	0.85 to 1.1 x U_N
Protection for control circuit supply	Short-circuit-proof (DC devices: PTC thermistor / AC devices: short-circuit-proof transformer)

Control Circuit

Outputs S13, S23	
Rated output voltage S13, S23	22 V DC
No-load voltage AC device	<40 V
Output current	100mA
Short-circuit-proof / current limiting	Yes / No
Inputs S14/S33, S22, S24, S34, S35	
Input voltage range (for external supply, only on DC devices)	17.4 V DC to 26.4 V DC
Rated current / peak current S14/S33, S22, S24	40 mA / 100 mA
Rated current / peak current S34, S35	5 mA / 50 mA
Times	
Permissible test pulse time t_{TP} / test frequency	$\leq 1000 \mu s$ / $\leq 10 s^{-1}$
Operate time t_{A1} S34	20 ms to 40 ms
Operate time t_{A2} S35	200 ms to 600 ms
Operate time t_{A3}	100 ms to 400 ms
Min. ON time t_m S34, S35	> 80 ms
Synchronous time t_s CH1 before CH2	approx. 200 ms
Recovery time t_w	≥ 100 ms
Release time t_R K1, K2	< 25 ms

Output Circuit

Enabling paths	
Contact equipment	3 NO contacts, positively driven
Rated switching voltage U_n	230V AC / 300 V DC
Maximum continuous current I_n per current path	6 A
Maximum total current for all current paths	12 A AC/DC 24 V AC 115 - 120 V, AC 230 V
Utilization category according to IEC 947-5-1	8 A AC-15: U_e 230 V, I_e 4 A (360 h ⁴) DC-13: U_e 24 V, I_e 4 A (360 h ⁴) AC-15: U_e 230 V, I_e 3 A (3600 h ⁴) DC-13: U_e 24 V, I_e 2.5 A (3600 h ⁴)
Mechanical service life	10 x 10 ⁶ Switching Cycles

General Data

Clearance/creepage distance between circuits	EN 60947-1:12.99
Over-voltage category	III
Rated impulse withstand level	4 kV
Contamination level of device: inside / outside	2 / 3
Rated voltage	300 V
Power-frequency test voltage	2 kV
Protection class to DIN VDE 0470 Part 1: housing / terminals	IP 40 / IP 20
Ambient / storage temperature	-25 to +55 °C / -25 to +75 °C
Climatic application class	H V G to DIN 40040: 04:87
Weight: DC device / AC device	0.21 kg / 0.25 kg

Terminals and connection

Single-core or finely stranded	1 x 0.14 mm ² to 2.5 mm ² 2 x 0.14 mm ² to 0.75 mm ²
Stripping length	max. 8 mm
Finely stranded with wire-end ferrule to DIN 46228	1 x 0.25 mm ² to 2.5 mm ² 2 x 0.25 mm ² to 0.5 mm ²
Max. lightening torque	0.5 to 0.6 Nm
For UL and CSA applications	Conductor sizes Max. lightening torque
	AWG 18-16 use only Cu lines 0.79 in-lbs.

Order Information		Electrical Specifications	
Part Number	Power Input A1/A2	Required Fuse	
INT-22.5R1-24	24VAC/DC	AC/DC: PTC-Resistance	