




Specifications

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|-------------------------------------|---------------------------|---|--|--|
| Types | | S2 unit | S1 special unit | Built-in device |
| Product name | | Spot network relay | Voltage adjustment relay for distribution substations | Temporary protective relay |
| Type | | MN80S2-01 | MT80S1-01/01A | MR3-1003 |
| Rating | Current frequency | 5A 50/60Hz | $5\sqrt{3} / \sqrt{3}$ A 50Hz | 5A 60Hz |
| Normal service conditions | Ambient temperature | Range of performance guarantee: 0~40°C Range of operation guarantee: -10~50°C Range of recovery guarantee: -20~60°C | ← ← ← | ← ← ← |
| | Relative humidity | 30~80% | ← | ← |
| | Altitude | 2,000 m or less | ← | ← |
| | Frequency characteristics | Rated frequency = operating value with fluctuation of ±5%: Within ±5% of rated frequency | | |
| Insulation resistance | | Between electrical circuits: 5 MΩ Between the whole electrical circuits and casing (earth potential): 10 MΩ Provided that the relative humidity is 80% or less. | ← ← ← | Between electrical circuits: 2 MΩ Between the whole electrical circuits and casing (earth potential): 2 MΩ Provided that the relative humidity is 80% or less. |
| Withstand voltage | | Between electrical circuits: 2000 V for one minute Between the whole electrical circuits and casing (earth potential): 2000 V for one minute | ← ← | ← ← |
| Lightning impulse withstand voltage | | Positive and negative 1.2/50 μs waveforms applied 3 times each. Between control circuits: 3 kV Between the whole electrical circuits and earth: 4.5 kV | ← ← ← | ← Between the whole electrical circuits and earth: 4 kV |
| Noise immunity | | EFT/B tested other than B-402 | ← ← | B-402 tested |
| Contact capacity | Control outputs | Current capacity 5 A, closing 10 A (0.5 s), opening 0.1 A (DC110 V, R load) | AC 250 V, open/close 1.5 A (inductive load: COS φ = 0.4) | 5 A continuous (max 15 A, 2 seconds) |
| | External display | Standstill output open/close 60 mA | ← | Current capacity 5 A, interruption 0.5 A (R load) |
| Installed relay elements | Main detects | 67L, 67H, 78, 51L/H, 57 27S, 78, 27B, 84S | 90R•L, 59B, 27B | 44SX1, 44SX2, 44SD, 44SR 51D, 51φ 67G, 67GA1, 67GA2, 64 51H, 51A, 51, 51GA, 51G 27B, 64B |
| | Fault detects | 67LF, 67HF, 51F, 27SF, 78F, 27BF, 84SF | 59A, 27A | 51DF, 51F, 64F, 51GF, 27F |