

TECHNICAL SPECIFICATIONS

RATINGS Rated Frequency: 50/60 Hz Rated Voltage: $V_n = 110 \text{ V (50 Hz)}$ $V_n = 120 \text{ V (60 Hz)}$ DC Control Voltage: 48 VDC 34-60 VDC 110/125 VDC 88/150 VDC 220/250 VDC 176-300 VDC Maximum Permissible AC Voltage: Continuous: 2.0 x rated One Minute: 3.5 x rated Ambient Temperature Range: Storage: -40° to +65°C Operation: The MRS has been designed for continuous operation between -20°C and +55°C per ANSI Standard C37.90. In addition, the MRS will not malfunction nor be damaged by operation at temperatures up to +65°C. Ambient Humidity: 95% without condensing Insulation Test Voltage: 2 kV 50/60 Hz, one min Impulse Voltage Withstand: 5 kV peak, 1.2/50 μsec , 0.5 J Interference Test Withstand: ANSI/IEEE C37.90 and IEC 255-5	BURDENS Voltage Circuits: 0.2 VA 49°, 60 Hz 0.24 VA 48°, 50 Hz DC Battery: Normal Tripped All Voltage Ratings: 13.5 W 17 W DC Battery (for contact converters): 1.9 mA each CONTACT DATA Heavy Duty Outputs (Reclose Breaker): Continuous rating = 3 A Make and carry for tripping duty (per ANSI C37.90) = 30 A Break 180 VA resistive at 125/250 VDC Break 60 VA inductive at 125/250 VDC Auxiliary Outputs (including Alarms): Continuous rating = 3 A Make and carry for 30 sec = 5 A Break 25 W inductive at 125/250 VDC Make and carry continuously = 50 W Maximum of 250 V or 0.5 A RECLOSE TIMERS Single and Three-Pole Reclose Timers: 0.01 to 2.55 sec in 0.01 sec step (each independently adjustable) Delayed Second Reclose: 1 to 255 sec in 1.0 sec steps (may be disabled) Dwell Time of Reclosing Contacts: 0.2 sec or 0.8 sec Reset Time: 1 to 255 sec in 1 sec steps	SYNCHRONISM CHECK Line and Bus Voltage Live: 65 to 110 % of rated in 5 % steps Line and Bus Voltage Dead: 10 to 70 % of rated in 5 % steps Rated Voltage: 57.7, 63.5, 66.4, 69 V phase-to-neutral Synchronism Angle: 1 to 99° in 1° steps Slip Cut-off Frequency: High 0.25 to 2.5 Hz in 0.25 Hz steps Low 0.01 to 0.1 Hz in 0.01 Hz steps, 0.1 to 1.0 Hz in 0.1 Hz steps PHYSICAL Weight (approximate): Net: 9 lbs (19.8 kg) Ship: 11 lbs (24.2 kg) TYPE TESTS AND STANDARDS Insulation Withstand: 2 kV 50/60 Hz, for one min, per IEC 255-5 Impulse: 5 kV peak 1.2/50 μsec , 0.5 J per IEC 255-4 Interference Test: 2.5 kV Longitudinal, 1 kV transversal, Class III, per IEC 255-22-1 Electrostatic Discharge: Per IEC 801-2, Class III Radio Interference: Per IEC 801-3, Class III Surge Withstand: Per IEC 801-4, Class III APPROVALS CE Compliant
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Specifications subject to change without notice.

ORDERING

The information required to provide a complete definition of a model appears in the tables. It is recommended that the model designation is accompanied with its characteristics:

MRS 200 * A * * 0 * 0 0 B

MRS200							Transmission line reclosing system
0							Without synchronism check
1							With synchronism check
	0						Without recloser counter
	1						With recloser counter
		0					Sync check at 50 Hz
		1					Synch check at 60 Hz
			A				48 VDC
			B				110/125 VDC
			C				220/250 VDC
				B			Revision level