

# Automatic Transfer Switch Equipment M2Rxxx-xxx/2



- PC-Class change-over switch
- Dual power supply design: power supply A (main) and power supply B (standby)
- Supports AC systems with a rated current of 6 A to 100 A
- Automatic switching within 100 milliseconds
- Compliance with IEC 60947-6-1:2021

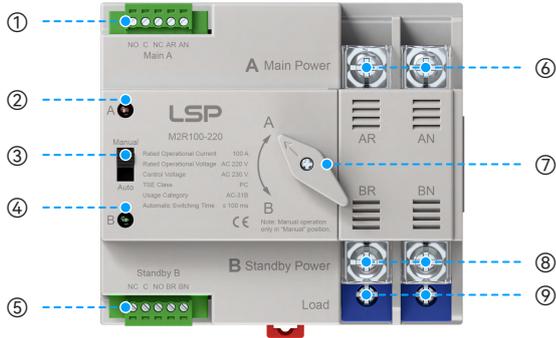
The M2R Automatic Transfer Switching Equipment (ATSE) is a PC-class miniature power transfer device designed for residential applications. It supports dual power inputs from a main and a backup source. In the event of a main power failure or abnormality, the device automatically transfers to the backup power within 100 milliseconds, ensuring continuous and reliable power supply. It is suitable for low-voltage AC systems rated from 6A to 100A at 50/60Hz, features DIN rail mounting, and complies with IEC 60947-6-1:2021 standards.

## Technical Data

M2Rxxx-xxx/2	M2R40-110/2	M2R63-110/2	M2R100-110/2	M2R40-220/2	M2R63-220/2	M2R100-220/2
<b>IEC Electrical</b>						
Rated Operational Voltage (AC)	U <sub>e</sub>	110 V	110 V	110 V	220 V	220 V
Case Grade				100 A		
Rated Operational Current	I <sub>e</sub>	40 A	63 A	100 A	40 A	63 A
Rated Insulation Voltage	U <sub>i</sub>	690 V				
Rated Impulse Withstand Voltage	U <sub>imp</sub>	8 kV				
Rated Frequency		50/60 Hz				
Automatic Switching Time		≤ 100 ms				
Pole Number		2P				
Usage Category		40 A / 63 A: AC-33iB		100A: AC-31B		
Rated Conditional Short-Circuit Current	I <sub>q</sub>	50 kA				
Short-Circuit Protection Device (Fuse)		RT16-00-63A				
Rated Impulse Withstand Voltage		8 kV				
TSE Class		PC-Class: Can Be Switched On and Loaded Without Generating Short-Circuit Current				
Control Circuit		Rated Control Voltage U <sub>s</sub> : AC 110 V / 230 V, 50/60 Hz Normal Working Conditions: 85% - 110% U <sub>s</sub>				
Auxiliary Circuit		110 V / 230 V, 50/60 Hz, I <sub>e</sub> = 5 A				
Overvoltage / Undervoltage Protection Range		Undervoltage Value: 85 V Recovery Value: 95 V Overvoltage Value: 145 V Recovery Value: 130 V (±5 V)		Undervoltage Value: 175 V Recovery Value: 195 V Overvoltage Value: 260 V Recovery Value: 240 V (±5 V)		
Mechanical Life		≥ 5000 Times				
Electrical Life		≥ 2000 Times				
Enclosure Material		PA66 FR				
<b>Order Information</b>						
Ordering Code						
M2Rxxx-xxx/2		4001220	6301220	1011220	4002220	6302220
						1012220

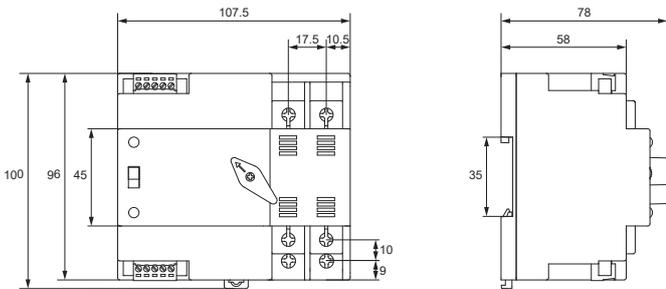


Product Overview



- ① Composite Terminal Block for Main Power A (Signalling & Motor Supply)
- ② Main Power Indicator
- ③ Manual / Automatic Selector Switch
- ④ Standby Power Indicator
- ⑤ Composite Terminal Block for Standby Power B (Signalling & Motor Supply)
- ⑥ Main Power Terminals (Main Power Input)
- ⑦ Manual Rotary Switch
- ⑧ Standby Power Terminals (Standby Power Input)
- ⑨ Load Terminals (Power Output to Load)

Dimensions & Packaging

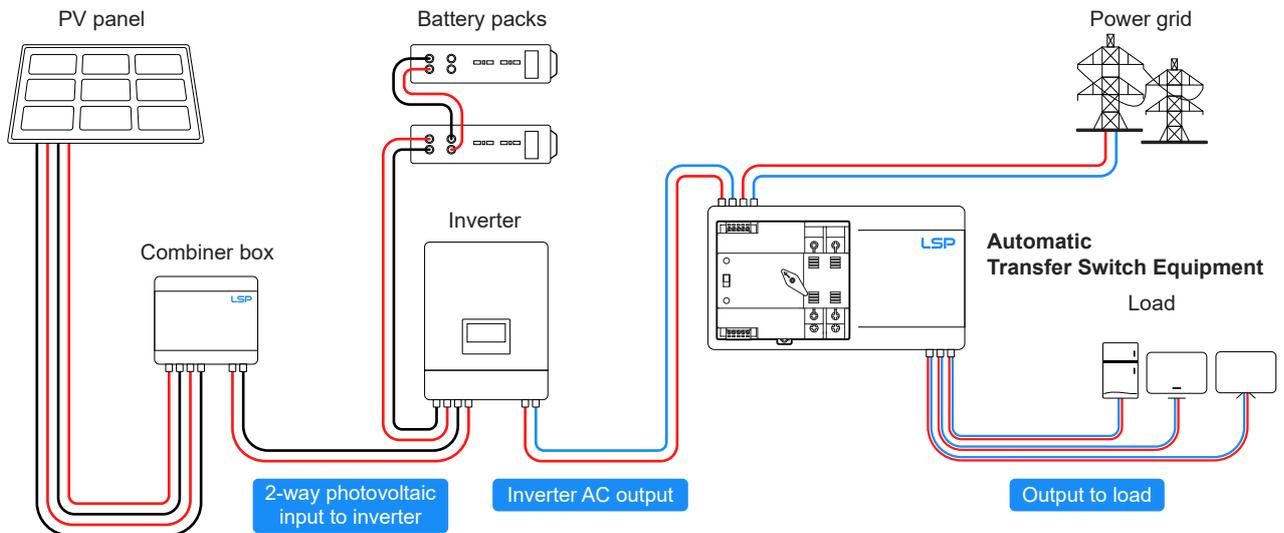


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Packing Information

Units per Carton	20 pcs
Product / Inner box / Carton Weight	0.51 kg / 0.1 kg / 0.5 kg
Net / Gross Weight per Carton	10.2 kg / 12.7 kg
Dimensions (H × W × L)	[300 × 290 × 555 mm]

Easy Installation Instructions



# Automatic Transfer Switch Equipment

## M2Rxxx-xxx/3



- PC-Class change-over switch
- Dual power supply design: power supply A (main) and power supply B (standby)
- Supports AC systems with a rated current of 6 A to 100 A
- Automatic switching within 100 milliseconds
- Compliance with IEC 60947-6-1:2021

The M2R Automatic Transfer Switching Equipment (ATSE) is a PC-class miniature power transfer device designed for residential applications. It supports dual power inputs from a main and a backup source. In the event of a main power failure or abnormality, the device automatically transfers to the backup power within 100 milliseconds, ensuring continuous and reliable power supply. It is suitable for low-voltage AC systems rated from 6A to 100A at 50/60Hz, features DIN rail mounting, and complies with IEC 60947-6-1:2021 standards.

### Technical Data

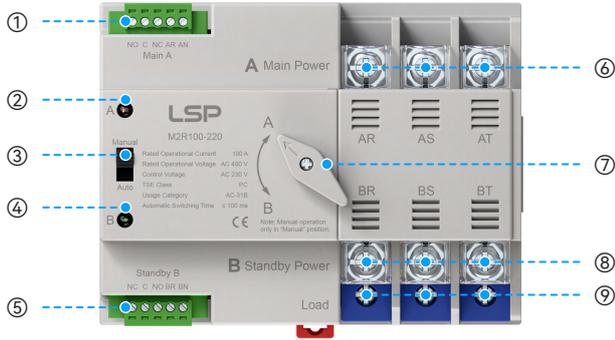
M2Rxxx-xxx/3	M2R40-110/3	M2R63-110/3	M2R100-110/3	M2R40-220/3	M2R63-220/3	M2R100-220/3
<b>IEC Electrical</b>						
Single-Phase Rated Voltage (phase-to-neutral) (AC)	110 V	110 V	110 V	220 V	220 V	220 V
Rated Operational Voltage (phase-to-phase) (AC)	$U_e$ 200 V	200 V	200 V	400 V	400 V	400 V
Case Grade	100 A					
Rated Operational Current	$I_e$ 40 A	63 A	100 A	40 A	63 A	100 A
Rated Insulation Voltage	$U_i$ 690 V					
Rated Impulse Withstand Voltage	$U_{imp}$ 8 kV					
Rated Frequency	50/60 Hz					
Automatic Switching Time	≤ 100 ms					
Pole Number	3P					
Usage Category	40 A / 63 A: AC-33iB			100A: AC-31B		
Rated Conditional Short-Circuit Current	$I_q$ 50 kA					
Short-Circuit Protection Device (Fuse)	RT16-00-63A					
Rated Impulse Withstand Voltage	8 kV					
TSE Class	PC-Class: Can Be Switched On and Loaded Without Generating Short-Circuit Current					
Control Circuit	Rated Control Voltage $U_s$ : AC 110 V / 230 V, 50/60 Hz Normal Working Conditions: 85% - 110% $U_s$					
Auxiliary Circuit	110 V / 230 V, 50/60 Hz, $I_e = 5$ A					
Overvoltage / Undervoltage Protection Range	Undervoltage Value: 85 V Recovery Value: 95 V Overvoltage Value: 145 V Recovery Value: 130 V (±5 V)		Undervoltage Value: 175 V Recovery Value: 195 V Overvoltage Value: 260 V Recovery Value: 240 V (±5 V)			
Mechanical Life	≥ 5000 Times					
Electrical Life	≥ 2000 Times					
Enclosure Material	PA66 FR					

### Order Information

Ordering Code	M2Rxxx-xxx/3	4001320	6301320	1011320	4002320	6302320	1012320
M2Rxxx-xxx/3		4001320	6301320	1011320	4002320	6302320	1012320

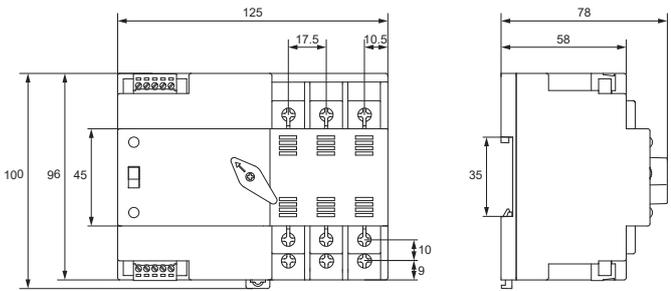


Product Overview



- ① Composite Terminal Block for Main Power A (Signalling & Motor Supply)
- ② Main Power Indicator
- ③ Manual / Automatic Selector Switch
- ④ Standby Power Indicator
- ⑤ Composite Terminal Block for Standby Power B (Signalling & Motor Supply)
- ⑥ Main Power Terminals (Main Power Input)
- ⑦ Manual Rotary Switch
- ⑧ Standby Power Terminals (Standby Power Input)
- ⑨ Load Terminals (Power Output to Load)

Dimensions & Packaging

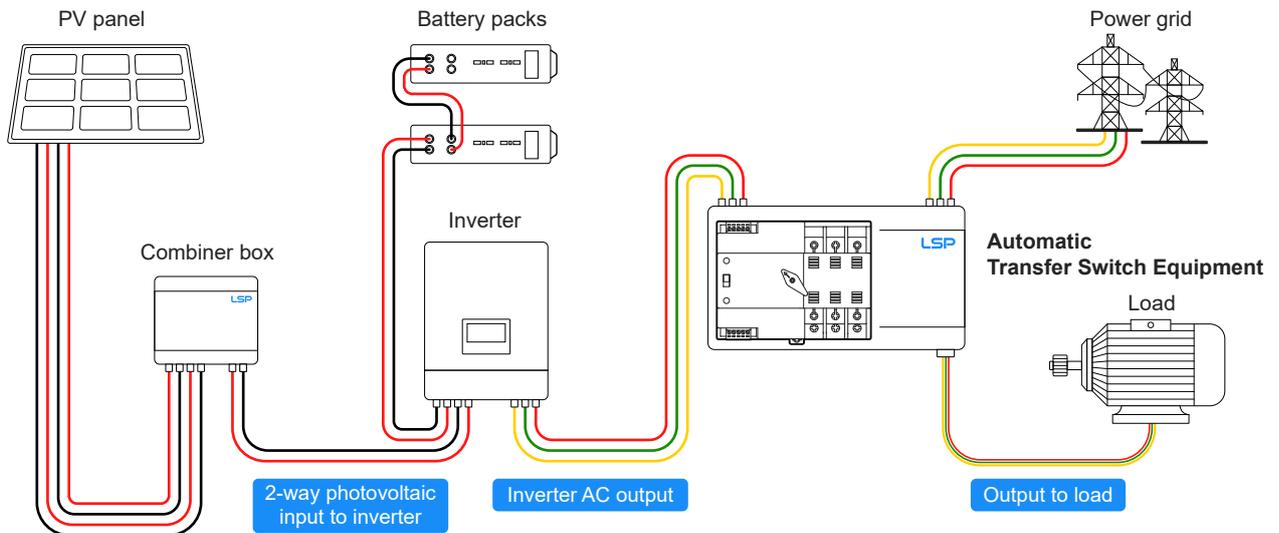


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Packing Information

Units per Carton	20 pcs
Product / Inner box / Carton Weight	0.64 kg / 0.1 kg / 0.5 kg
Net / Gross Weight per Carton	12.8 kg / 15.3 kg
Dimensions (H × W × L)	[300 × 330 × 555 mm]

Easy Installation Instructions



# Automatic Transfer Switch Equipment M2Rxxx-xxx/4



- PC-Class change-over switch
- Dual power supply design: power supply A (main) and power supply B (standby)
- Supports AC systems with a rated current of 6 A to 100 A
- Automatic switching within 100 milliseconds
- Compliance with IEC 60947-6-1:2021

The M2R Automatic Transfer Switching Equipment (ATSE) is a PC-class miniature power transfer device designed for residential applications. It supports dual power inputs from a main and a backup source. In the event of a main power failure or abnormality, the device automatically transfers to the backup power within 100 milliseconds, ensuring continuous and reliable power supply. It is suitable for low-voltage AC systems rated from 6A to 100A at 50/60Hz, features DIN rail mounting, and complies with IEC 60947-6-1:2021 standards.

## Technical Data

M2Rxxx-xxx/4	M2R40-110/4	M2R63-110/4	M2R100-110/4	M2R40-220/4	M2R63-220/4	M2R100-220/4
<b>IEC Electrical</b>						
Single-Phase Rated Voltage (phase-to-neutral) (AC)	110 V	110 V	110 V	220 V	220 V	220 V
Rated Operational Voltage (phase-to-phase) (AC)	$U_e$ 200 V	200 V	200 V	400 V	400 V	400 V
Case Grade	100 A					
Rated Operational Current	$I_e$ 40 A	63 A	100 A	40 A	63 A	100 A
Rated Insulation Voltage	$U_i$ 690 V					
Rated Impulse Withstand Voltage	$U_{imp}$ 8 kV					
Rated Frequency	50/60 Hz					
Automatic Switching Time	≤ 100 ms					
Pole Number	4P					
Usage Category	40 A / 63 A: AC-33iB			100A: AC-31B		
Rated Conditional Short-Circuit Current	$I_q$ 50 kA					
Short-Circuit Protection Device (Fuse)	RT16-00-63A					
Rated Impulse Withstand Voltage	8 kV					
TSE Class	PC-Class: Can Be Switched On and Loaded Without Generating Short-Circuit Current					
Control Circuit	Rated Control Voltage $U_s$ : AC 110 V / 230 V, 50/60 Hz Normal Working Conditions: 85% - 110% $U_s$					
Auxiliary Circuit	110 V / 230 V, 50/60 Hz, $I_e = 5$ A					
Overvoltage / Undervoltage Protection Range	Undervoltage Value: 85 V Recovery Value: 95 V Overvoltage Value: 145 V Recovery Value: 130 V (±5 V)		Undervoltage Value: 175 V Recovery Value: 195 V Overvoltage Value: 260 V Recovery Value: 240 V (±5 V)			
Mechanical Life	≥ 5000 Times					
Electrical Life	≥ 2000 Times					
Enclosure Material	PA66 FR					
<b>Order Information</b>						
Ordering Code	M2Rxxx-xxx/4	4001420	6301420	1011420	4002420	6302420 1012420

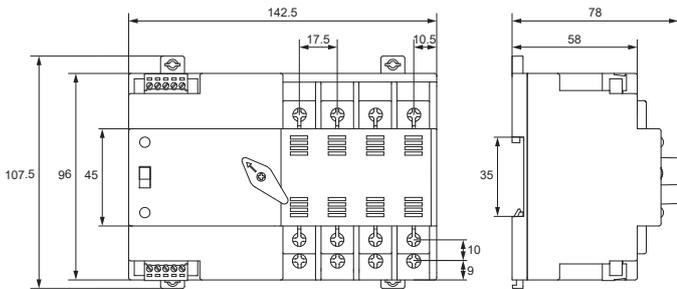


Product Overview



- ① Composite Terminal Block for Main Power A (Signalling & Motor Supply)
- ② Main Power Indicator
- ③ Manual / Automatic Selector Switch
- ④ Standby Power Indicator
- ⑤ Composite Terminal Block for Standby Power B (Signalling & Motor Supply)
- ⑥ Main Power Terminals (Main Power Input)
- ⑦ Manual Rotary Switch
- ⑧ Standby Power Terminals (Standby Power Input)
- ⑨ Load Terminals (Power Output to Load)
- ⑩ Mounting Hole (4P)

Dimensions & Packaging



[mm]

Packing Information

Units per Carton	20 pcs
Product / Inner box / Carton Weight	0.7 kg / 0.1 kg / 0.5 kg
Net / Gross Weight per Carton	14.0 kg / 16.5 kg
Dimensions (H × W × L)	[300 × 360 × 555 mm]

Easy Installation Instructions

