

# RMBS SERIES

Remote Manual Bypass Switch

NOW AVAILABLE WITH AN ISOLATION  
TRANSFORMER OPTION

SINGLE PHASE

THREE PHASE



**AMETEK®**

**SOLIDSTATE CONTROLS**  
PROVIDING CONTINUITY OF ELECTRICAL POWER

# RMBS/RMBS-T

## Remote Manual Bypass Switch with isolation transformer option

SINGLE PHASE 3 - 100 kVA

THREE PHASE 10 - 100 kVA



Solidstate Controls RMBS Series, Remote Manual Bypass Switch (RMBS) is a 3-position switch that allows for complete isolation of a UPS or inverter in order to perform routine or emergency maintenance on the equipment.

The RMBS-T unit includes an isolation transformer that galvanically isolates the bypass supply. Depending on your equipment line up and space constraints, you may consider combining your transformer and RMBS to create an all-in-one, consolidated unit.

The load is temporarily transferred from the inverter (UPS) onto the bypass (alternate) AC power source. This make-before-break switch is designed to transfer between two in-sync sources to enable a zero-break transfer in both directions, so there is no disruption of power to the connected load(s).

- 3-Position: Offers Complete Isolation
- Make-Before-Break
- Industrial Grade
- NEMA-1 (IP-20) Wall Mounted Enclosure for the RMBS unit or a floor standing cabinet for the RMBS-T unit
- Long Life LED Indicators
- Wide Variety of Current and Voltage Ratings Available
- Isolation transformer option available

Note: Cover photo is RMBS-T, inside photo is RMBS

## RMBS Specifications

| Model Number                                                  | UPS kVA Rating | Voltage           | Nominal Current | Switch Rating <sup>1</sup> | Enclosure Dimensions H x W x D |                 | Weight |    | Optional Breaker Ratings |
|---------------------------------------------------------------|----------------|-------------------|-----------------|----------------------------|--------------------------------|-----------------|--------|----|--------------------------|
|                                                               |                |                   |                 |                            | Inches                         | Millimeters     | lb     | kg |                          |
| RS030MB-12                                                    | 3              | 120, 1-PH         | 25              | 50 A                       | 24 x 24 x 10                   | 610 x 610 x 254 | 85     | 39 | 30 A                     |
| RS050MB-12                                                    | 5              | 120, 1-PH         | 42              | 85 A                       | 24 x 24 x 10                   | 610 x 610 x 254 | 85     | 39 | 60 A                     |
| RS075MB-12                                                    | 7.5            | 120, 1-PH         | 63              | 85 A                       | 24 x 24 x 10                   | 610 x 610 x 254 | 85     | 39 | 80 A                     |
| RS100MB-12                                                    | 10             | 120, 1-PH         | 83              | 130 A                      | 24 x 24 x 10                   | 610 x 610 x 254 | 85     | 39 | 125 A                    |
| RS150MB-12                                                    | 15             | 120, 1-PH         | 125             | 200 A                      | 28 x 24 x 14                   | 711 x 610 x 356 | 125    | 57 | 175 A                    |
| RS200MB-12                                                    | 20             | 120, 1-PH         | 167             | 255 A                      | 28 x 24 x 14                   | 711 x 610 x 356 | 125    | 57 | 225 A                    |
| RS300MB-12                                                    | 30             | 120, 1-PH         | 250             | 400 A                      | 34 x 32 x 15                   | 864 x 813 x 381 | 150    | 68 | 350 A                    |
| RS400MB-12                                                    | 40             | 120, 1-PH         | 333             | 510 A                      | 34 x 32 x 15                   | 864 x 813 x 381 | 150    | 68 | 500 A                    |
| RS500MB-12                                                    | 50             | 120, 1-PH         | 417             | 600 A                      | 34 x 32 x 17                   | 864 x 813 x 432 | 175    | 80 | 600 A                    |
| RS600MB-12                                                    | 60             | 120, 1-PH         | 500             | 765 A                      | 34 x 32 x 17                   | 864 x 813 x 432 | 175    | 80 | 700 A                    |
| RS750MB-12                                                    | 75             | 120, 1-PH         |                 |                            |                                |                 |        |    |                          |
| RS1000MB-12                                                   | 100            | 120, 1-PH         |                 |                            |                                |                 |        |    |                          |
| For this information please contact your sales representative |                |                   |                 |                            |                                |                 |        |    |                          |
| 2RS030MB-24                                                   | 3              | 120/240, Split PH | 13              | 50 A                       | 24 x 24 x 10                   | 610 x 610 x 254 | 85     | 39 | 20 A                     |
| 2RS050MB-24                                                   | 5              | 120/240, Split PH | 21              | 50 A                       | 24 x 24 x 10                   | 610 x 610 x 254 | 85     | 39 | 30 A                     |
| 2RS075MB-24                                                   | 7.5            | 120/240, Split PH | 31              | 50 A                       | 24 x 24 x 10                   | 610 x 610 x 254 | 85     | 39 | 40 A                     |
| 2RS100MB-24                                                   | 10             | 120/240, Split PH | 42              | 85 A                       | 24 x 24 x 10                   | 610 x 610 x 254 | 85     | 39 | 60 A                     |
| 2RS150MB-24                                                   | 15             | 120/240, Split PH | 63              | 85 A                       | 24 x 24 x 13                   | 610 x 610 x 330 | 100    | 45 | 80 A                     |
| 2RS200MB-24                                                   | 20             | 120/240, Split PH | 83              | 130 A                      | 24 x 24 x 13                   | 610 x 610 x 330 | 100    | 45 | 125 A                    |
| 2RS300MB-24                                                   | 30             | 120/240, Split PH | 125             | 200 A                      | 28 x 24 x 14                   | 711 x 610 x 356 | 125    | 57 | 175 A                    |
| 2RS400MB-24                                                   | 40             | 120/240, Split PH | 167             | 255 A                      | 28 x 24 x 14                   | 711 x 610 x 356 | 125    | 57 | 225 A                    |
| 2RS500MB-24                                                   | 50             | 120/240, Split PH | 208             | 400 A                      | 34 x 32 x 15                   | 864 x 813 x 381 | 150    | 68 | 300 A                    |
| 2RS600MB-24                                                   | 60             | 120/240, Split PH | 250             | 400 A                      | 34 x 32 x 15                   | 864 x 813 x 381 | 175    | 80 | 350 A                    |
| 2RS750MB-24                                                   | 75             | 120/240, Split PH | 313             | 400 A                      | 34 x 32 x 17                   | 864 x 813 x 432 | 175    | 80 | 400 A                    |
| 2RS1000MB-24                                                  | 100            | 120/240, Split PH |                 |                            |                                |                 |        |    |                          |
| For this information please contact your sales representative |                |                   |                 |                            |                                |                 |        |    |                          |
| RS030MB-22                                                    | 3              | 220, 1-PH         | 14              | 50 A                       | 24 x 24 x 10                   | 610 x 610 x 254 | 85     | 39 | 20 A                     |
| RS050MB-22                                                    | 5              | 220, 1-PH         | 23              | 50 A                       | 24 x 24 x 10                   | 610 x 610 x 254 | 85     | 39 | 30 A                     |
| RS075MB-22                                                    | 7.5            | 220, 1-PH         | 34              | 50 A                       | 24 x 24 x 10                   | 610 x 610 x 254 | 85     | 39 | 50 A                     |
| RS100MB-22                                                    | 10             | 220, 1-PH         | 45              | 85 A                       | 24 x 24 x 10                   | 610 x 610 x 254 | 85     | 39 | 60 A                     |
| RS150MB-22                                                    | 15             | 220, 1-PH         | 68              | 85 A                       | 24 x 24 x 10                   | 610 x 610 x 254 | 85     | 39 | 90 A                     |
| RS200MB-22                                                    | 20             | 220, 1-PH         | 91              | 130 A                      | 24 x 24 x 10                   | 610 x 610 x 254 | 85     | 39 | 125 A                    |
| RS300MB-22                                                    | 30             | 220, 1-PH         | 136             | 200 A                      | 28 x 24 x 14                   | 711 x 610 x 356 | 125    | 57 | 175 A                    |
| RS400MB-22                                                    | 40             | 220, 1-PH         | 182             | 255 A                      | 28 x 24 x 14                   | 711 x 610 x 356 | 125    | 57 | 250 A                    |
| RS500MB-22                                                    | 50             | 220, 1-PH         | 227             | 400 A                      | 34 x 32 x 15                   | 864 x 813 x 381 | 150    | 68 | 300 A                    |
| RS600MB-22                                                    | 60             | 220, 1-PH         | 273             | 400 A                      | 34 x 32 x 15                   | 864 x 813 x 381 | 175    | 80 | 350 A                    |
| RS750MB-22                                                    | 75             | 220, 1-PH         | 341             | 510 A                      | 34 x 32 x 15                   | 864 x 813 x 381 | 175    | 80 | 500 A                    |
| RS1000MB-22                                                   | 100            | 220, 1-PH         | 455             | 600 A                      | 34 x 32 x 17                   | 864 x 813 x 432 | 175    | 80 | 600 A                    |
| 3RS100MB-20                                                   | 10             | 208/120, 3-PH     | 28              | 50 A                       | 24 x 24 x 13                   | 610 x 610 x 330 | 100    | 45 | 40 A                     |
| 3RS150MB-20                                                   | 15             | 208/120, 3-PH     | 42              | 85 A                       | 24 x 24 x 13                   | 610 x 610 x 330 | 100    | 45 | 60 A                     |
| 3RS200MB-20                                                   | 20             | 208/120, 3-PH     | 56              | 85 A                       | 24 x 24 x 13                   | 610 x 610 x 330 | 100    | 45 | 70 A                     |
| 3RS300MB-20                                                   | 30             | 208/120, 3-PH     | 83              | 130 A                      | 24 x 24 x 13                   | 610 x 610 x 330 | 100    | 45 | 125 A                    |
| 3RS400MB-20                                                   | 40             | 208/120, 3-PH     | 111             | 200 A                      | 24 x 24 x 14                   | 610 x 610 x 356 | 105    | 48 | 150 A                    |
| 3RS500MB-20                                                   | 50             | 208/120, 3-PH     | 139             | 200 A                      | 28 x 24 x 14                   | 711 x 610 x 356 | 125    | 57 | 175 A                    |
| 3RS600MB-20                                                   | 60             | 208/120, 3-PH     | 167             | 255 A                      | 28 x 24 x 14                   | 711 x 610 x 356 | 125    | 80 | 225 A                    |
| 3RS750MB-20                                                   | 75             | 208/120, 3-PH     | 208             | 400 A                      | 34 x 32 x 17 <sup>2</sup>      | 864 x 813 x 432 | 175    | 80 | 300 A                    |
| 3RS800MB-20                                                   | 80             | 208/120, 3-PH     | 222             | 400 A                      | 34 x 32 x 17 <sup>2</sup>      | 864 x 813 x 432 | 175    | 80 | 300 A                    |
| 3RS1000MB-20                                                  | 100            | 208/120, 3-PH     | 278             | 400 A                      | 34 x 32 x 17 <sup>2</sup>      | 864 x 813 x 432 | 175    | 80 | 350 A                    |
| 3RS100MB-38                                                   | 10             | 380/220, 3-PH     | 15              | 50 A                       | 24 x 24 x 13                   | 610 x 610 x 330 | 100    | 45 | 20 A                     |
| 3RS150MB-38                                                   | 15             | 380/220, 3-PH     | 23              | 50 A                       | 24 x 24 x 13                   | 610 x 610 x 330 | 100    | 45 | 30 A                     |
| 3RS200MB-38                                                   | 20             | 380/220, 3-PH     | 30              | 50 A                       | 24 x 24 x 13                   | 610 x 610 x 330 | 100    | 45 | 40 A                     |
| 3RS300MB-38                                                   | 30             | 380/220, 3-PH     | 46              | 85 A                       | 24 x 24 x 13                   | 610 x 610 x 330 | 100    | 45 | 60 A                     |
| 3RS400MB-38                                                   | 40             | 380/220, 3-PH     | 61              | 85 A                       | 24 x 24 x 13                   | 610 x 610 x 330 | 100    | 45 | 80 A                     |
| 3RS500MB-38                                                   | 50             | 380/220, 3-PH     | 76              | 130 A                      | 24 x 24 x 13                   | 610 x 610 x 330 | 100    | 45 | 100 A                    |
| 3RS600MB-38                                                   | 60             | 380/220, 3-PH     | 91              | 130 A                      | 24 x 24 x 13                   | 610 x 610 x 330 | 100    | 45 | 125 A                    |
| 3RS750MB-38                                                   | 75             | 380/220, 3-PH     | 114             | 200 A                      | 24 x 24 x 14                   | 610 x 610 x 356 | 105    | 48 | 150 A                    |
| 3RS800MB-38                                                   | 80             | 380/220, 3-PH     | 122             | 200 A                      | 24 x 24 x 24                   | 610 x 610 x 356 | 105    | 48 | 175 A                    |
| 3RS1000MB-38                                                  | 100            | 380/220, 3-PH     | 152             | 200 A                      | 28 x 24 x 14                   | 711 x 610 x 356 | 125    | 57 | 200 A                    |
| 3RS100MB-48                                                   | 10             | 480/277, 3-PH     | 12              | 50 A                       | 24 x 24 x 13                   | 610 x 610 x 330 | 100    | 45 | 20 A                     |
| 3RS150MB-48                                                   | 15             | 480/277, 3-PH     | 18              | 50 A                       | 24 x 24 x 13                   | 610 x 610 x 330 | 100    | 45 | 25 A                     |
| 3RS200MB-48                                                   | 20             | 480/277, 3-PH     | 24              | 50 A                       | 24 x 24 x 13                   | 610 x 610 x 330 | 100    | 45 | 35 A                     |
| 3RS300MB-48                                                   | 30             | 480/277, 3-PH     | 36              | 50 A                       | 24 x 24 x 13                   | 610 x 610 x 330 | 100    | 45 | 50 A                     |
| 3RS400MB-48                                                   | 40             | 480/277, 3-PH     | 48              | 85 A                       | 24 x 24 x 13                   | 610 x 610 x 330 | 100    | 45 | 70 A                     |
| 3RS500MB-48                                                   | 50             | 480/277, 3-PH     | 60              | 85 A                       | 24 x 24 x 13                   | 610 x 610 x 330 | 100    | 45 | 80 A                     |
| 3RS600MB-48                                                   | 60             | 480/277, 3-PH     | 72              | 130 A                      | 24 x 24 x 13                   | 610 x 610 x 330 | 100    | 45 | 100 A                    |
| 3RS750MB-48                                                   | 75             | 480/277, 3-PH     | 90              | 130 A                      | 24 x 24 x 13                   | 610 x 610 x 330 | 100    | 45 | 125 A                    |
| 3RS800MB-48                                                   | 80             | 480/277, 3-PH     | 97              | 130 A                      | 24 x 24 x 13                   | 610 x 610 x 330 | 100    | 45 | 125 A                    |
| 3RS1000MB-48                                                  | 100            | 480/277, 3-PH     | 120             | 200 A                      | 28 x 24 x 14                   | 711 x 609 x 356 | 125    | 57 | 175 A                    |

## RMBS-T Specifications

| Model Number | kVA Size | Input Voltage | Output Voltage | Weight |     |
|--------------|----------|---------------|----------------|--------|-----|
|              |          |               |                | lb     | kg  |
| RST030MB     | 3 kVA    | 208, 480, 600 | 120            | 765    | 347 |
| RST050MB     | 5 kVA    | 208, 480, 600 | 120            | 760    | 345 |
| RST075MB     | 7.5 kVA  | 208, 480, 600 | 120            | 760    | 345 |
| RST100MB     | 10 kVA   | 208, 480, 600 | 120            | 760    | 345 |
| RST150MB     | 15 kVA   | 208, 480, 600 | 120            | 760    | 345 |
| RST200MB     | 20 kVA   | 208, 480, 600 | 120            | 850    | 386 |
| RST300MB     | 30 kVA   | 208, 480, 600 | 120            | 955    | 433 |
| RST400MB     | 40 kVA   | 208, 480, 600 | 120            | 1,050  | 476 |
| RST500MB     | 50 kVA   | 208, 480, 600 | 120            | 1,050  | 476 |
| RST600MB     | 60 kVA   | 208, 480, 600 | 120            | 1,170  | 531 |
| RST750MB     | 75 kVA   | 208, 480, 600 | 120            | 1,200  | 544 |
| RST800MB     | 80 kVA   | 208, 480, 600 | 120            | 1,325  | 601 |
| RST1000MB    | 100 kVA  | 208, 480, 600 | 120            | 1,325  | 601 |
| 3RST100MB    | 10 kVA   | 208, 480, 600 | 208, 480       | 770    | 349 |
| 3RST150MB    | 15 kVA   | 208, 480, 600 | 208, 480       | 770    | 349 |
| 3RST200MB    | 20 kVA   | 208, 480, 600 | 208, 480       | 770    | 349 |
| 3RST300MB    | 30 kVA   | 208, 480, 600 | 208, 480       | 850    | 386 |
| 3RST400MB    | 40 kVA   | 208, 480, 600 | 208, 480       | 1,025  | 465 |
| 3RST500MB    | 50 kVA   | 208, 480, 600 | 208, 480       | 1,295  | 587 |
| 3RST600MB    | 60 kVA   | 208, 480, 600 | 208, 480       | 1,295  | 587 |
| 3RST750MB    | 75 kVA   | 208, 480, 600 | 208, 480       | 1,345  | 610 |
| 3RST800MB    | 80 kVA   | 208, 480, 600 | 208, 480       | 1,550  | 703 |
| 3RST1000MB   | 100 kVA  | 208, 480, 600 | 208, 480       | 1,550  | 703 |

<sup>1</sup> Denotes U.L. Rating

<sup>2</sup> Enclosure depth is 20" with the addition of an optional Solenoid

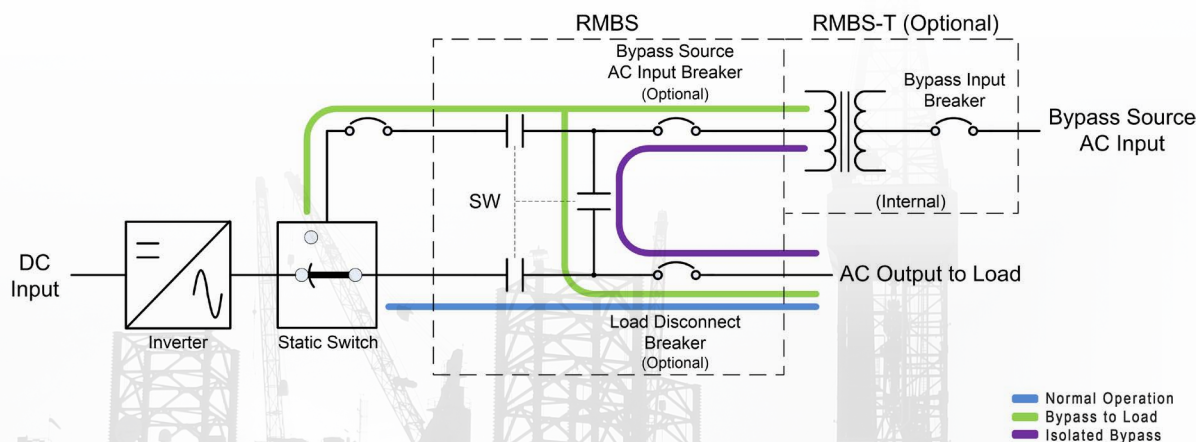
Specifications subject to change without notice

Consult us for sizes not listed

## General Specifications

| Standard Features                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Optional Features                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (Option #)                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Nema-1 (IP-20) wall mounted enclosure for the RMBS models and a cabinet for the RMBS-T models</li> <li>• ANSI 61 light gray</li> <li>• 3-positions for complete isolation:               <ul style="list-style-type: none"> <li>– Normal-load fed from Inverter (UPS)</li> <li>– Bypass (test)-load fed from bypass source through RMBS</li> <li>– Isolation-load fed from utility, completely isolating the RMBS and inverter</li> </ul> </li> <li>• Indicating lights for:               <ul style="list-style-type: none"> <li>– In-sync</li> <li>– Bypass source available</li> <li>– Normal source available</li> </ul> </li> <li>• Lamp test push button</li> <li>• Clearance for top cable entry - contact us for bottom entry requirements (RMBS only)</li> <li>• Power cable connections made to copper bus bars, allowing greater cable bending radius</li> <li>• Isolation transformer (RMBS-T only)</li> <li>• Top and bottom cabinet entry (Standard on RMBS-T models)</li> </ul> | <ul style="list-style-type: none"> <li>• Padlockable handle to lock switch in a position</li> <li>• Solenoid (electronic) interlock to prevent switch operation if inverter and bypass source are not in sync</li> <li>• Output circuit breaker<sup>1</sup></li> <li>• Bypass source input circuit breaker<sup>1</sup></li> <li>• Padlockable breakers</li> <li>• Aux contacts for CBs</li> <li>• Indicating light package; includes:               <ul style="list-style-type: none"> <li>– Not in sync</li> <li>– Switch in normal source to load</li> <li>– Switch in bypass to load</li> <li>– Switch in isolation bypass</li> </ul> </li> <li>• Voltmeter with selector switch to indicate:               <ul style="list-style-type: none"> <li>– Normal input</li> <li>– Bypass input</li> <li>– AC output voltage</li> </ul> </li> </ul> | (S800P)<br>(S800L)<br><br>(18)<br>(95)<br>(93)<br>(145)<br>(90)<br><br>(89) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <sup>1</sup> Breakers: Available in high kAIC ratings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                             |

### Remote Manual Bypass Switch One Line Diagram



Specifications subject to change without notice

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**SOLIDSTATE CONTROLS**  
REV 01/2026

THE PURPOSE OF OUR BUSINESS IS TO PROVIDE CONTINUITY OF ELECTRICAL POWER TO KEEP BUSINESSES IN BUSINESS.

**WE DO THIS BY HELPING CLIENTS SOLVE THEIR POWER PROBLEMS  
AND BY CREATING THE MOST ECONOMICAL LONG-TERM RESULTS.**