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[1]	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	For this information please contact your sales representative						
RS1000MB-12	100	120, 1-PH							
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[2]	864 x 813 x 432	175	80	300 A
3RS800MB-20	80	208/120, 3-PH	222	400 A	34 x 32 x 17[2]	864 x 813 x 432	175	80	300 A
3RS1000MB-20	100	208/120, 3-PH	278	400 A	34 x 32 x 17[2]	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

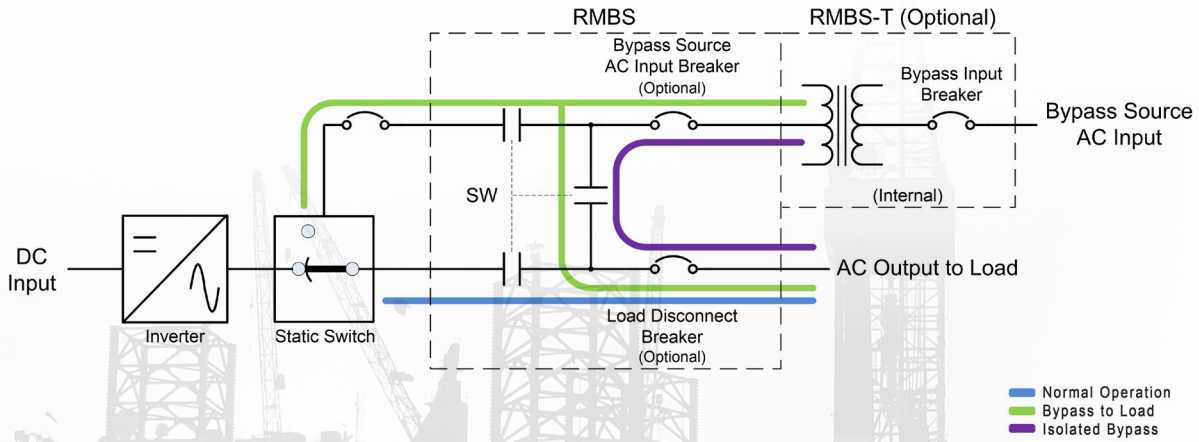
Model Number	kVA Size	Input Voltage	Output Voltage	Weight	
				lb	kg
RST030MB	3 kVA	208, 480, 600	120	765	347
RST050MB	5 kVA	208, 480, 600	120	760	345
RST075MB	7.5 kVA	208, 480, 600	120	760	345
RST100MB	10 kVA	208, 480, 600	120	760	345
RST150MB	15 kVA	208, 480, 600	120	760	345
RST200MB	20 kVA	208, 480, 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

[1] Denotes U.L. Rating
[2] 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 #)
• Nema-1 (IP-20) wall mounted enclosure for the RMBS models and a cabinet for the RMBS-T models • ANSI 61 light gray • 3-positions for complete isolation: – Normal-load fed from Inverter (UPS) – Bypass (test)-load fed from bypass source through RMBS – Isolation-load fed from utility, completely isolating the RMBS and inverter • Indicating lights for: – In-sync – Bypass source available – Normal source available • Lamp test push button • Clearance for top cable entry - contact us for bottom entry requirements (RMBS only) • Power cable connections made to copper bus bars, allowing greater cable bending radius • Isolation transformer (RMBS-T only) • Top and bottom cabinet entry (Standard on RMBS-T models)	• Padlockable handle to lock switch in a position • Solenoid (electronic) interlock to prevent switch operation if inverter and bypass source are not in sync • Output circuit breaker[1] • Bypass source input circuit breaker[1] • Padlockable breakers • Aux contacts for CBs • Indicating light package; includes: – Not in sync – Switch in normal source to load – Switch in bypass to load – Switch in isolation bypass • Voltmeter with selector switch to indicate: – Normal input – Bypass input – AC output voltage [1]Breakers: Available in high kAIC ratings.	(S800P) (S800L) (18) (95) (93) (145) (90) (89)

Remote Manual Bypass Switch One Line Diagram



Specifications subject to change without notice

WORLD HEADQUARTERS
875 Dearborn Drive
Columbus, Ohio 43085
Phone: +1-614-846-7500
Toll Free: +1-800-635-7300
Fax: +1-614-885-3990

GLOBAL OFFICES LOCATED IN
Mexico
Asia Pacific
Brazil
Middle East
India
Argentina

WEBSITE
www.solidstatecontrolsinc.com

EMAIL
SCI.sales@AMETEK.com

AMETEK®
SOLIDSTATE CONTROLS

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.

REV 09/2021