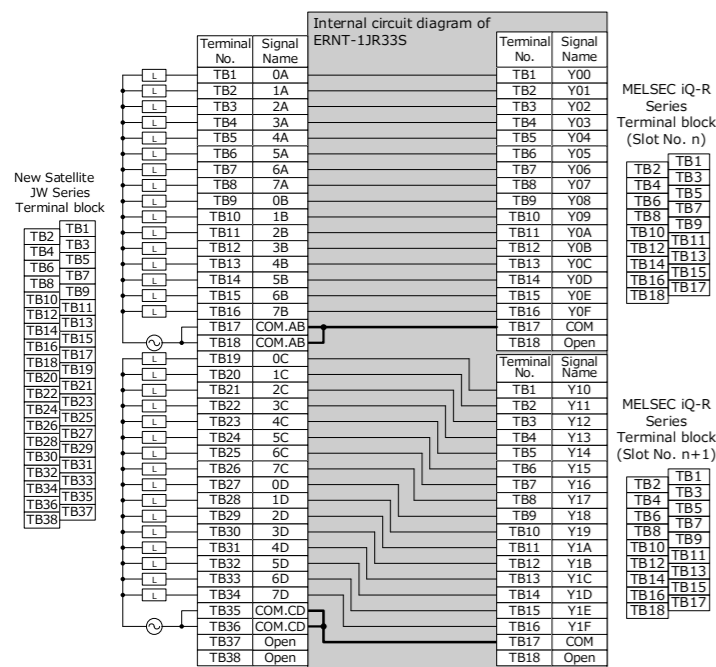


(1) In the case of JW-33S → RY20S6

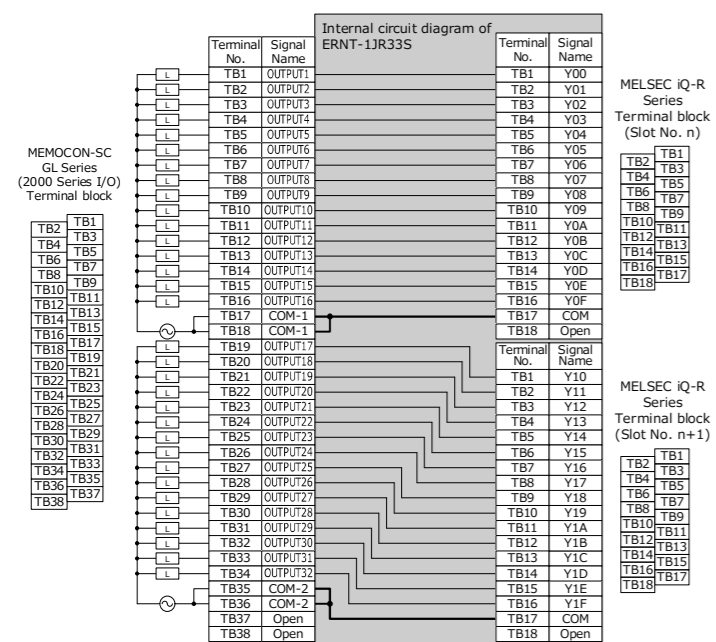


<Specification Comparison Chart>

| Model | New Satellite JW Series (Triac output) | MELSEC iQ-R Series RY20S6 (Triac output) |
|-------------------------------------|---|---|
| Specifications | | |
| Number of output points | 32 points | 16 points |
| Rated load voltage | 100 to 240VAC(50/60Hz) | 100 to 240VAC (+10%/-15%) 50/60Hz(±3Hz) |
| Maximum load current | 1A/point 4A/common | 0.6A/point 4.8A/common |
| Minimum load voltage/current | 10mA | 24VAC/100mA 100VAC/25mA 240VAC/25mA |
| Maximum inrush current | 6A(100ms) | 20A/cycle or lower |
| OFF leakage current | 1.5mA or lower (120VAC) 3mA or lower (240VAC) | 1.5mA or lower (at 120V 60Hz) 3mA or lower (at 240V 60Hz) |
| Maximum voltage drop at power-ON | 2V or lower (1A) | 1.5V or lower (at load current of 0.6A) |
| Response time | OFF→ON: 1ms or less ON→OFF: 1ms + 0.5 cycles or less | 1ms + 0.5 cycles or less 1ms + 0.5 cycles or less (rated load, resistive load) |
| Surge suppressor | CR absorber / Varistor | CR absorber |
| Fuse | 4A/common | None (Attaching a fuse to each external wiring is recommended.) |
| Internal current consumption (5VDC) | Maximum 505mA n points at ON→(25+15n)mA | 280mA(TYP. all points ON) |
| Wiring method for common | 16 points/common | 16 points/common |
| External connection system | 38-point terminal block | 18-point terminal block |

Make sure the [] section of the above table meets the specification of the machines and equipment connected to the MELSEC iQ-R Series module.

(2) In the case of JAMSC-B2504 → RY20S6



<Specification Comparison Chart>

| Model | MEMOCON-SC GL Series (2000 Series I/O) JAMSC-B2504 (Triac output) | MELSEC iQ-R Series RY20S6 (Triac output) |
|----------------------------------|---|---|
| Specifications | | |
| Number of output points | 32 points | 16 points |
| Rated load voltage | 100/200VAC | 100 to 240VAC (+10%/-15%) 50/60Hz(±3Hz) |
| Maximum load current | 0.3Arms/point 1.2Arms/8 points | 0.6A/point 4.8A/common |
| Minimum load voltage/current | 10mArms | 24VAC/100mA 100VAC/25mA 240VAC/25mA |
| Maximum inrush current | 20A(10ms) | 20A/cycle or lower |
| OFF leakage current | 3mArms(240VAC 50Hz) 1.5mArms(100VAC 50Hz) | 3mA or lower (240V 60Hz) 1.5mA or lower (120V 60Hz) |
| Maximum voltage drop at power-ON | 1.5Vrms or lower (at load current 1Arms) | 1.5V or lower (at load current of 0.6A) |
| Response time | OFF→ON: 1ms or less ON→OFF: 1ms + 0.5 cycles or less | 1ms + 0.5 cycles or less 1ms + 0.5 cycles or less (rated load, resistive load) |
| Surge suppressor | CR absorber / Varistor | CR absorber |
| Fuse | 4A | None (Attaching a fuse to each external wiring is recommended.) |
| Internal current consumption | V _{CC} 380mAtyp (All points ON) V _D 560mAtyp (All points ON) | 280mA(TYP. all points ON) |
| Wiring method for common | 16 points/common | 16 points/common |
| External connection system | 38-point terminal block | 18-point terminal block |

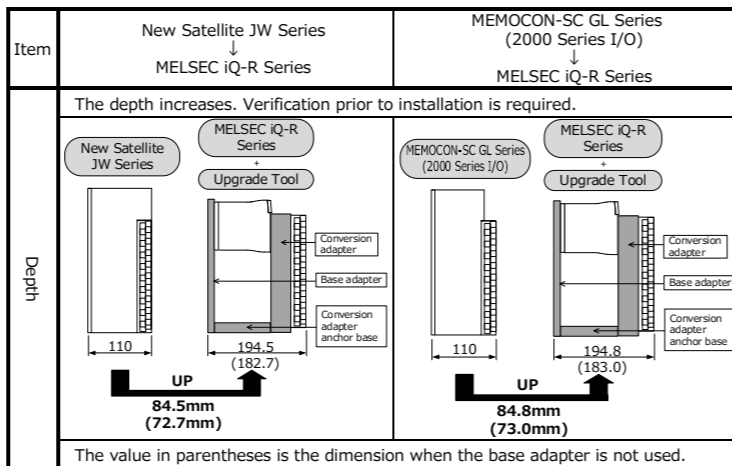
Make sure the [] section of the above table meets the specification of the machines and equipment connected to the MELSEC iQ-R Series module.

5. Mounting and Installation

5.1 Handling Precautions

- Before attempting to install the Unit or carry out the necessary wiring, make certain that the external power supply, used in the system, is shut off on all three phases. Failure to do so may result in electric shock or damage to the product.
- Do not touch live terminals. There is a danger of electric shock or malfunction.
- Do not modify the Conversion Adapter or take it apart. Doing so will cause failure, malfunction, personal injury, or fire.
- Do not touch the energized part of the Conversion Adaptor directly. Contact will cause malfunction or failure in the system.
- Fasten the Conversion Adapter and the Mounting Bracket securely with retaining screws, and tighten the screws by applying torque within specified limits. Loose screws can lead to the dropping of the Conversion Adapter, or Mounting Bracket, possibly causing breakage thereof. Excessive tightness of the screws can lead to breakage of the screws, Converter Adaptor, Mounting Bracket, or MELSEC iQ-R Series Module, possibly causing the dropping, shorting, and malfunction thereof.
- Use care to prevent foreign materials including cuttings and wiring debris from entering the Conversion Adapter or the MELSEC iQ-R Series Module. These will be cause for fire, failure or malfunction.
- Do not drop the Conversion Adapter and Mounting Bracket or do not give a strong impact to it. This will cause damage.
- Conversion Adapter is intended for indoor use only.

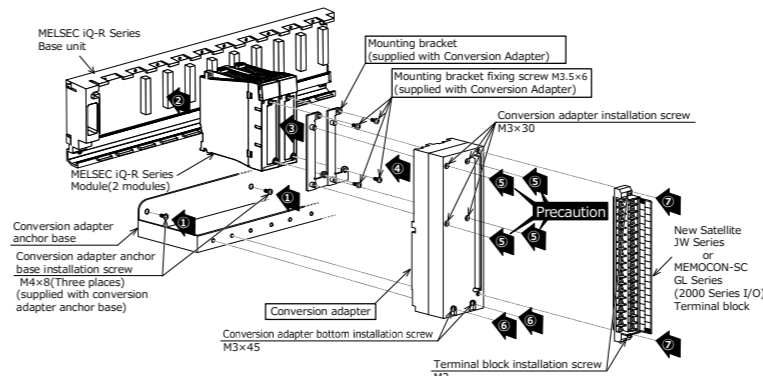
5.2 Use Precautions



5.3 Installation Environment

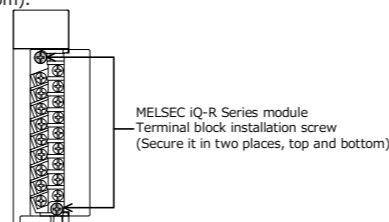
Refer to "Safety Guidelines" for MELSEC iQ-R Series Modules.

6. Part Names and Installation Method

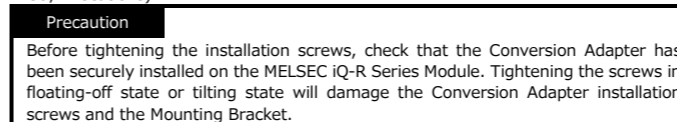


6.1 Installation Method

- Secure the Conversion Adapter Anchor Base to the Base Adapter or control panel using the Conversion Adapter Anchor Base installation screws (M4 × 8) provided as an accessory. (2 locations at both sides, 1 location at the center)
- Mount the MELSEC iQ-R Series module to the MELSEC iQ-R Series base unit. In addition, remove the terminal block attached with the MELSEC iQ-R Series Module (2 modules) after loosening the terminal block installation screws (2 places top and bottom).



- Secure the Mounting Bracket to the MELSEC iQ-R Series Module using the Mounting Bracket fixing screws [M3.5 × 6 (conversion adapter accessory); four upper/lower locations].
- Mount the Conversion Adapter onto the Mounting Bracket.
- Secure the Conversion Adapter using the Conversion Adapter installation screws (M3 × 30; 4 locations).



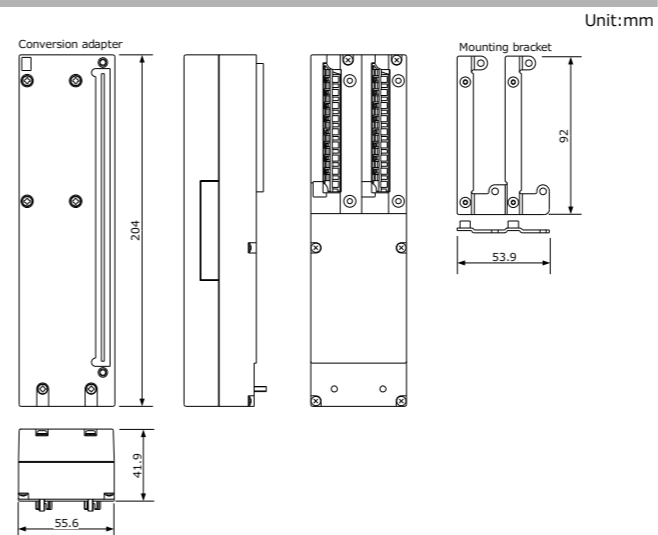
- Secure the Conversion Adapter using the Conversion Adapter bottom installation screw (M3 × 45; 1 location).
- Secure the terminal block of the New Satellite JW Series or MEMOCON-SC GL Series (2000 Series I/O) to the Conversion Adapter with the terminal block installation screws (M3; two upper/lower locations).

6.2 Tightening Torque

Tighten the installation screws to the specified torque below. An inappropriate tightening torque could cause the product to fall or result in a short circuit, product failure or malfunction.

| Screw Location | Tightening Torque Range |
|--|-------------------------|
| Conversion Adapter Anchor Base installation screw (M4×8) | 1.39 to 1.89N·m |
| Mounting Bracket fixing screw (M3.5×6) | 0.68 to 0.92N·m |
| Conversion Adapter installation screw (M3×30) | 0.43 to 0.57N·m |
| Conversion Adapter bottom installation screw (M3×45) | |
| Terminal block installation screw (M3) | 0.5 to 0.6N·m |

7. External Dimensions



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Product Warranty Details

Please confirm the following product warranty details prior to product use.

Gratis Warranty Terms and Gratis Warranty Range

If any fault or defect (hereinafter referred to as "Failure") attributable to Mitsubishi Electric Engineering Company Limited (hereinafter referred to as "MEE") should occur within the gratis warranty period, MEE shall repair the product free of charge via the distributor from whom you made your purchase.

■ Gratis Warranty Period

The gratis warranty period of this product shall be one (1) year from the date of purchase or delivery to the designated place. Note that after manufacture and shipment from MEE, the maximum distribution period shall be six (6) months, and the gratis warranty period after manufacturing shall be limited to eighteen (18) months.

In addition, the gratis warranty period for repaired products shall not exceed the gratis warranty period established prior to repair.

■ Gratis Warranty Range

The gratis warranty range shall be limited to normal use based on the usage conditions, methods and environment, etc., defined by the terms and precautions, etc., given in the instruction manual, user's manual and caution labels on the product.

Warranty Period after Discontinuation of Production

- MEE shall offer product repair services (fee applied) for seven (7) years after production of the product has been discontinued. Discontinuation of production shall be reported via distributors.
- Product supply (including spare parts) is not possible after production has been discontinued.

Exclusion of Opportunity Loss and Secondary Loss from Warranty Liability

Regardless of the gratis warranty period, MEE shall not be liable for compensation for damages arising from causes not attributable to MEE, opportunity losses or lost profits incurred by the user due to Failures of MEE products, damages or secondary damages arising from special circumstances, whether foreseen or unforeseen by MEE, compensation for accidents, compensation for damages to products other than MEE products, or compensation for other work carried out by the user.

Changes in Product Specifications

The specifications given in the catalogs, manuals and technical documents are subject to change without notice.

This document is a new publication, effective November 2018. Specifications are subject to change without notice.

Developed November 2018
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