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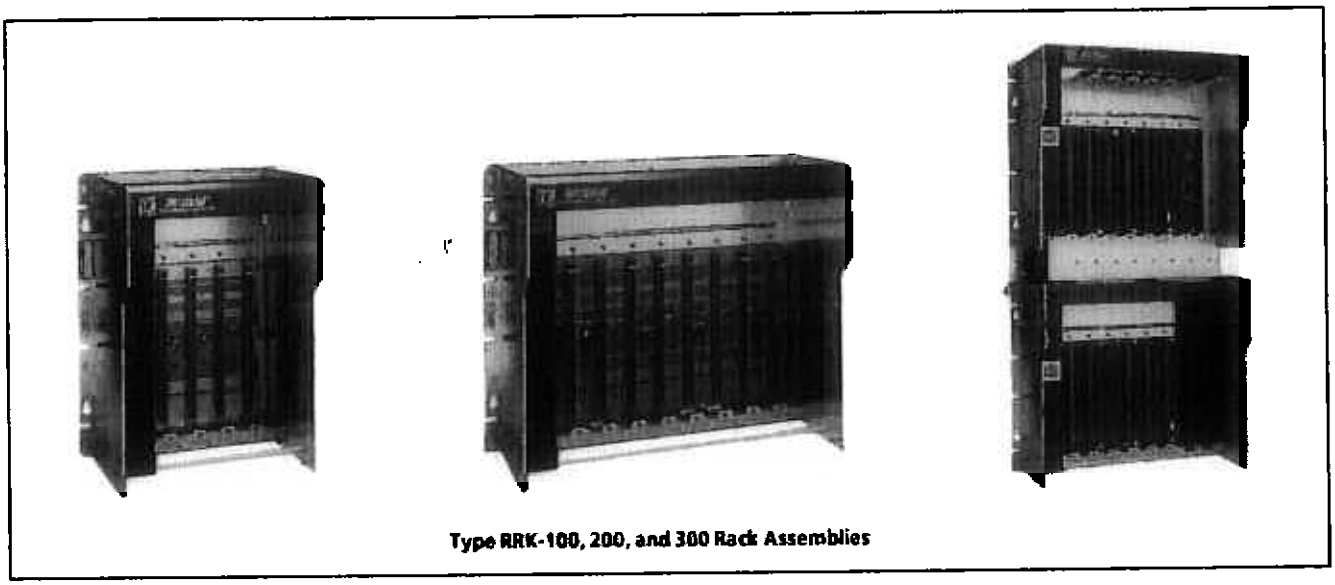
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Find the *Schneider Electric / Square D SY/MAX RRK-200* at our website: ***Click HERE***

TECHNICAL OVERVIEW

TO-265-02
JULY, 1988

SY/MAX® CLASS 8030 TYPE RRK-100, -200, and -300 REGISTER RACK ASSEMBLIES



Type RRK-100, 200, and 300 Rack Assemblies

Description

SY/MAX Class 8030 Type RRK-100, RRK-200 and RRK-300 Register Rack Assemblies provide mounting slots for SY/MAX Model 300, 400, 500, 600 and 700 Processors, 16 and 32 function I/O modules, the MicroCell and MiniCell Controllers and other modules which mount in a register slot. In addition, the RRK-300 Register Rack Assembly provides two non-addressable slots for mounting such devices as the SY/MAX Network Interface Module (NIM), D-LOG Data Controller Module and the Model 600 Parallel Processors.

The RRK-100 and -200 rack assemblies are designed for standard panel surface mounting but can also be 19-inch rack mounted by installing optional mounting brackets. The RRK-300 can only be panel mounted.

RRK-100 and RRK-200

The Type RRK-100 Register Rack has five register slots and the RRK-200 has nine slots. When the Model 300 processor is mounted in an RRK-200 register rack, slot 9 may not be used for any digital I/O modules.. Slot 9 cannot be addressed by the Model 300 and therefore may be used to power any register module which requires only power and which does not require registers, such as the D-LOG or SY/NET modules.

RRK-300

The RRK-300 Register Rack consists of 18 slots, nine of which are located on the top half of the rack while the other nine are located on the bottom. Sixteen of these slots are addressable mounting slots and two are non-addressable slots.

When the Model 300 processor is mounted in an RRK-300 register rack, slots 9-16 cannot be addressed by the Model 300. They may be used, however, to power any register module which requires only power and which does not require registers, such as the D-LOG or SY/NET modules.

Both halves of the RRK-300 must be connected to a power supply to get power to the backplane. Refer to Power Supply Instruction Bulletin 30598-156-XX or 30598-159-XX for instructions on power supply sizing.

Caution

If a Model 500 Processor is used in the top half of the RRK-300 rack assembly, the following class and types register modules cannot be used in the bottom half of the rack unless a single, properly sized power supply is used to power the upper and the lower halves of the rack.

- Class 8030 Types ROM-121 and -141,
- Class 8030 Types RIM-121, -141 and -144.

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Multiple Rack Systems

A single processor can control multiple RRK-100, 200, and 300 Register Racks. When using multiple racks, mount Local Interface Modules (CRM-210, 211) in the same rack with the processor and Remote Interface Modules (CRM-222) in the additional racks.

The Remote Interface Modules (CRM-222) can be mounted in other RRK-100, 200, or 300 Register Racks, or they can be mounted in Digital I/O Racks (Type CRK, DRK, GRK or HRK).

Register Racks (RRK-100, 200 and 300) can also be combined with Digital I/O Racks by using Parallel Digital Driver and Receiver Interface Modules. Driver Modules (EQ-5138-G1) are mounted in the register rack with the processor and Receiver Modules (EQ-5138-G2) are mounted in Digital I/O Racks (Type CRK, DRK, GRK or HRK).

A minimum of two register racks are used for redundant (dual) processor control. Matching SY/MAX Processors (Models 400, 500, 600 or 700) and Local Transfer Interface Modules (CRM-230) are mounted in their respective RRK-100, RRK-200 or RRK-300 Register Racks. Remote Transfer Interface Modules (CRM-232 are mounted remotely, in either RRK-100, 200 or 300 Register Racks or in Digital I/O Racks (Type CRK, DRK, GRK or HRK).

Refer to Technical Overviews TO-247-XX and TO-251-XX.

Important

Remote Interface Module, Type CRM-220 is designed specifically for use with digital I/O rack assemblies and cannot be mounted in an RRK-100, RRK-200 or RRK-300 Register Rack.

Bus Expander/Driver Modules (Type CRM-115) and Bus Expander/Terminator Modules (type CRM-116) are not compatible with RRK-100, RRK-200 and RRK-300 Register Racks.

Optional Mounting Brackets

Optional mounting brackets may be purchased separately to allow 19-inch rack mounting when using the RRK-100 and 200 rack assemblies. The 8030 CBP-111 brackets are designed for the 8030 RRK-100 (Series C or later) register rack. The 8030 CBP-112 brackets are designed for the 8030 RRK-200 (series D or later) register rack.

After brackets are installed, the rack uses standard 19-inch mounting dimensions.

The RRK-300 can only be panel mounted.

Module Keying

Each connector in a register rack assembly may be keyed with keying pins to accept only one type of module. The keying pins are inserted manually with a keying pin insertion tool. This keying pin is provided with a "Keying Pin Kit" Class 8030 Type CBP-104.

Keying pins are factory installed between positions 4 and 6 of each connector except for the connector of Slot 1; therefore, processors (with the exception of the Model 600 parallel processor) and remote interface modules will not fit into any slot other than Slot 1.

Specifications

Slots per Rack
- RRK-100 = 5 slots
- RRK-200 = 9 slots
- RRK-300 = 18 slots (2 are non-addressable)

Ambient Temperature Rating
- Operating 0°C to 60°C (32° to 140°F)
- Storage –40°C to 80°C (–40° to 176°F)

Humidity Rating
- 5 - 95% (non-condensing)

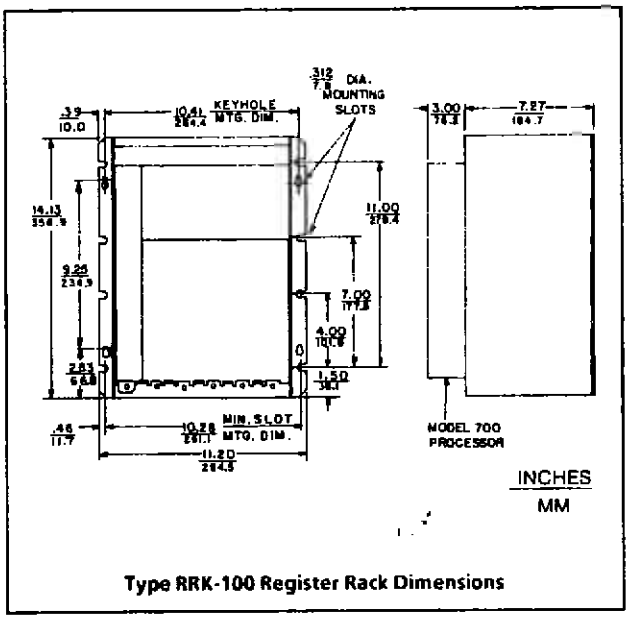
Weight (unpackaged)
- RRK-100: 12 lbs./5.44 kg.
- RRK-200: 16.5 lbs./7.48 kg.
- RRK-300: 30 lbs./66.14 kg.

The RRK-100, RRK-200, and RRK-300 (Slots 1 through 16) Register Rack Assemblies will accept the following modules:
- Model 300, 400, 500, 600, and 700 (plus memory module) Processors;
- CRM-210, 211, 214, 222, 230, 232, 310, 510, 530, 560, 570, 601 and 720;
- DLM-110 and 120;
- EQ-5138-G1 and EQ-5138-G2;
- PCM-110;
- RIM-101, 121, 125, 126, 131, 144, 331 and 361;
- ROM-121, 125, 126, 131, 141, 221, 431 and 441;
- MCM-701, 702 and 713;
- MIC-200.

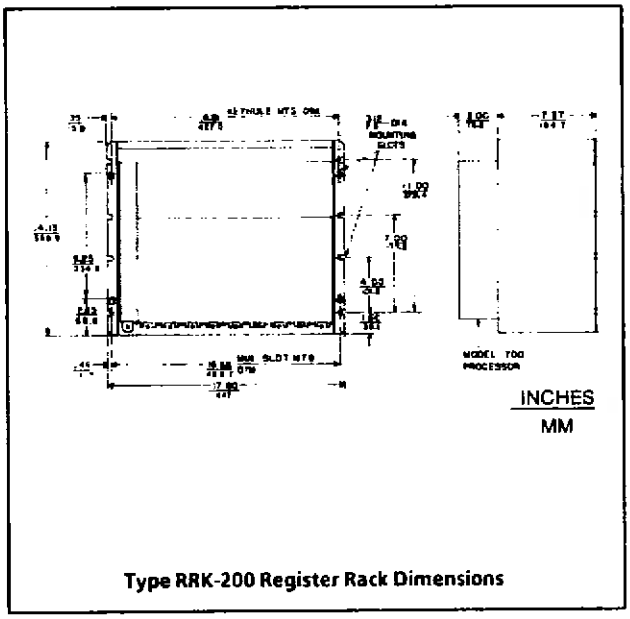
The RRK-300 (non-addressable slots) will also accept these modules:
- Model 600 Parallel Processor;
- CRM-510, 530, 560, 570, 601 and 720;
- DLM-110 and 120.

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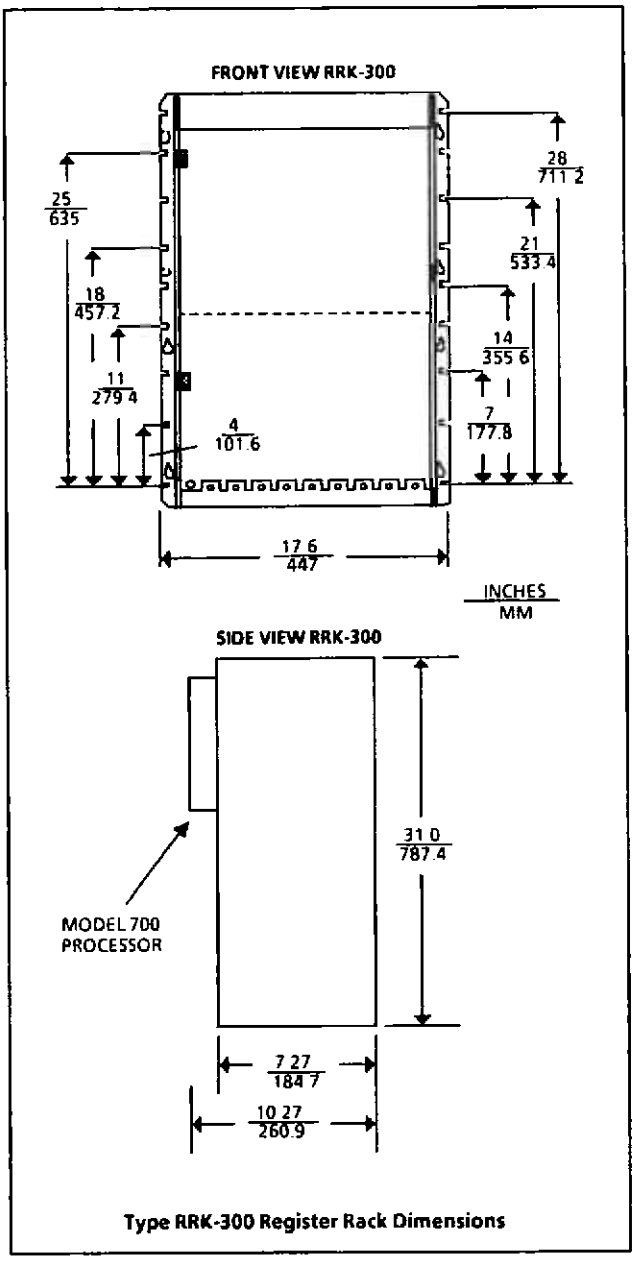
Dimension Drawings



Type RRK-100 Register Rack Dimensions



Type RRK-200 Register Rack Dimensions



Type RRK-300 Register Rack Dimensions

Ordering Information

Class	Type	Description
8030	RRK-100	5 Slot Register Rack Assembly
8030	RRK-200	9 Slot Register Rack Assembly
8030	RRK-300	18 Slot Register Rack Assembly
8030	CBP-104	Keying Pin Kit
8030	CBP-106	Register Slot Cover Plate (for HRK / RRK rack assemblies)
8030	CBP-111	Mounting Bracket for RRK-100
8030	CBP-112	Mounting Bracket for RRK-200

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