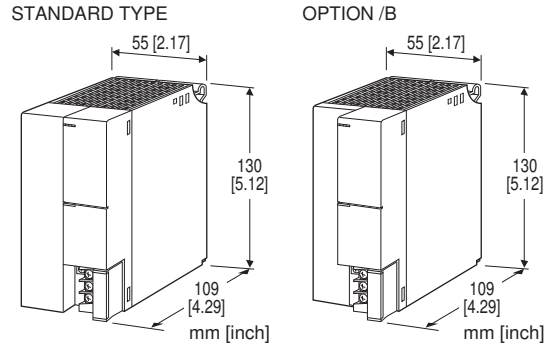
Remote I/O R3 Series

POWER SUPPLY MODULE

(double slot, continuous output current 2.0 A)



MODEL: R3-PS3-[1][2]

ORDERING INFORMATION

• Code number: R3-PS3-[1][2]

Specify a code from below for each of [1] and [2].
(e.g. R3-PS3-K3/CE/B/Q)

• Specify the specification for option code /Q
(e.g. /C01)

[1] POWER INPUT

AC Power

K: 85 – 132 V AC
(Operational voltage range 85 – 132 V, 47 – 66 Hz)
(CE not available)

K3: 100 – 120V AC
(Operational voltage range 85 – 132 V, 47 – 66 Hz)
(Only /CE available)

L: 170 – 264 V AC
(Operational voltage range 170 – 264 V, 47 – 66 Hz)
(CE Not available)

L3: 200 – 240 V AC
(Operational voltage range 170 – 264 V, 47 – 66 Hz)
(Only /CE available)

DC Power

R: 24 V DC
(Operational voltage range 24 V ±10 %, ripple 10 %p-p max.)

P: 110 V DC
(Operational voltage range 85 – 150 V, ripple 10 %p-p max.)
(CE not available)

[2] OPTIONS (multiple selections)

Standards & Approvals

blank: Without CE

/CE: CE marking

Housing (refer to the external dimensions)

blank: Standard type

/B: Type B

Other Options

blank: none

/Q: Option other than the above (specify the specification)

SPECIFICATIONS OF OPTION: Q

COATING (For the detail, refer to M-System's web site.)

/C01: Silicone coating

/C02: Polyurethane coating

/C03: Rubber coating

GENERAL SPECIFICATIONS

Connection

Internal power output: Via the Installation Base (model: R3-BSx)

Power input, RUN contact output: M3 separable screw terminal (torque 0.5 N·m)

Screw terminal: Nickel-plated steel

Isolation: Internal power to power input to RUN contact output to FG

Power indicator LED: Green LED turns on when the power is supplied.

■ **RUN CONTACT OUTPUT**

RUN contact: Turns on (closed) while the power is supplied.

Rated load: 250 V AC @ 0.5 A (cos ø = 1)
30 V DC @ 0.5 A (resistive load)

Maximum switching voltage: 250 V AC or 30 V DC

Maximum switching power: 250 VA or 150 W

Minimum load: 1 V DC @ 1 mA

Mechanical life: 2×10^7 cycles (rate 300 cycles/min.) When driving an inductive load, external contact protection and noise quenching recommended.

INSTALLATION

Power consumption (Output current: 2.0 A @ 20 V DC)

•**AC**: Approx. 100 VA

•**DC**: Approx. 50 W or 2.0 A at 24 V

Output current: 2.0 A continuous at 20 V DC;
2.2 A for 10 minutes
(For dual power supply, the specification of output current is same. Total current continuously consumed at the network modules, I/O modules and interface I/O modules must be within 2.0 A.)

Operating temperature: -10 to +55°C (14 to 131°F)

Operating humidity: 30 to 90 %RH (non-condensing)

Atmosphere: No corrosive gas or heavy dust
Mounting: Installation Base (model: R3-BSx)
Weight: 450 g (0.99 lb)

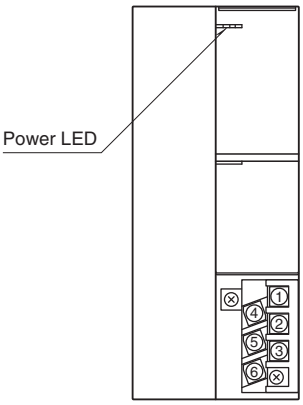
PERFORMANCE

Insulation resistance: ≥ 100 MΩ with 500 V DC
Dielectric strength: 2000 V AC @ 1 minute
(internal power to power input to RUN contact output to FG)

STANDARDS & APPROVALS

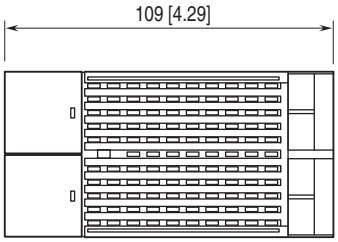
EU conformity:
EMC Directive
EMI EN 61000-6-4
EMS EN 61000-6-2
Low Voltage Directive
EN 61010-1, EN 61010-2-201
Measurement Category II (RUN contact output)
Installation Category II (power input)
Pollution Degree 2
Internal power to power input: Reinforced insulation (300 V)
Internal power to RUN contact output: Basic insulation (300 V)
RoHS Directive

EXTERNAL VIEW

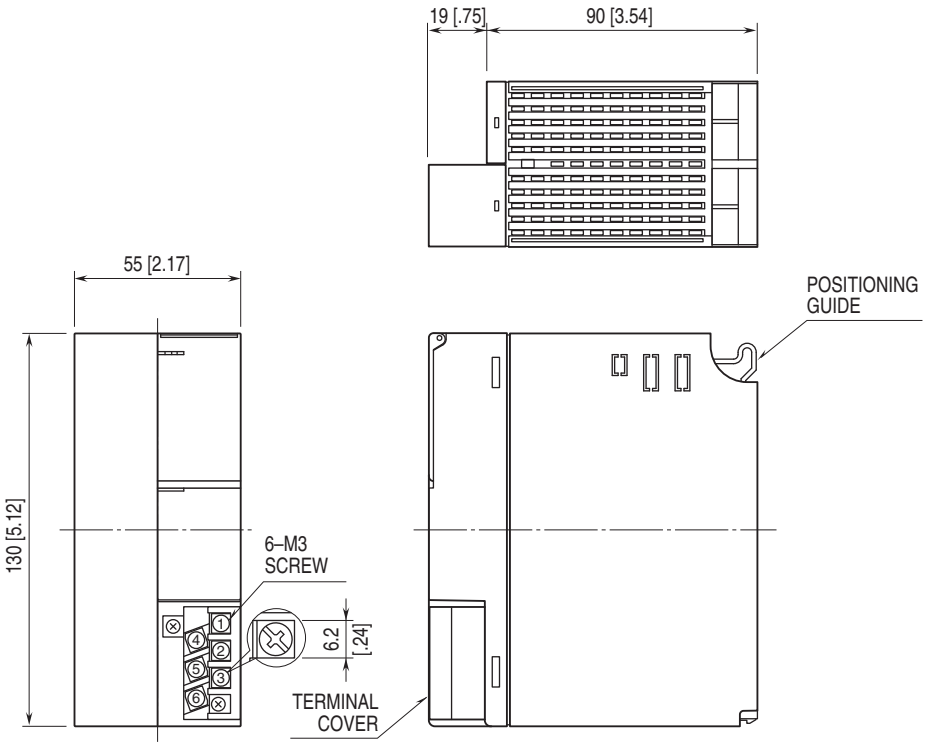


EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]

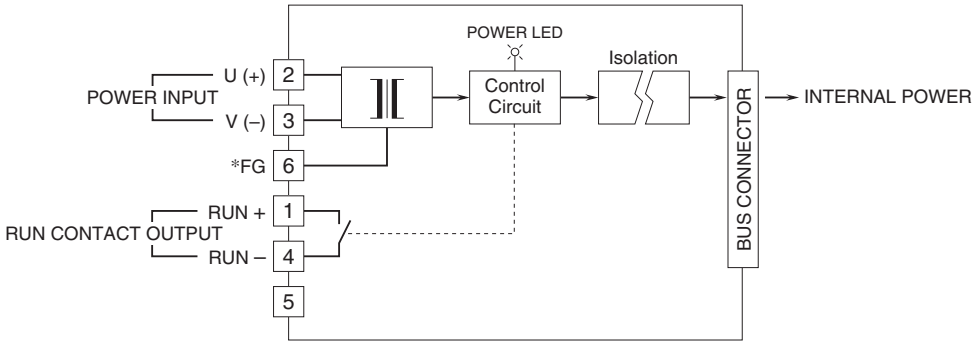
■ **STANDARD TYPE**



■ **OPTION /B**



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



*In order to improve EMC performance, bond the FG terminal to the ground.
Caution: This terminal is NOT a protective conductor terminal.

⚠ Specifications are subject to change without notice.