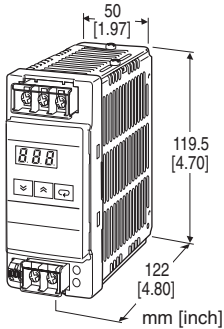


DC POWER SUPPLY

(maintenance forecast monitor function, capacity 120 W)

Functions & Features

- Accepts 100 - 240 V AC and provides regulated 24 V DC output
- Maintenance forecast monitor function



MODEL:MDC6-12024A-M2

ORDERING INFORMATION

- Code number: MDC6-12024A-M2

CAPACITY

120: 120 W

OUTPUT VOLTAGE

24: 24 V DC

MONITOR

A: Maintenance forecast monitor function

POWER INPUT

AC Power

M2: 100 - 240 V AC

GENERAL SPECIFICATIONS

Construction: Front terminal access; terminal cover provided

Connection

Power input, output voltage: M4 screw terminals (torque 1.08 N·m)

Alarm output: Applicable wire size: 0.081 to 0.823 mm², stripped length: 9 to 10 mm

Screw terminal: Nickel-plated steel

Housing material: Flame-resistant resin (beige); aluminum

SUPPLY OUTPUT

Output voltage: 24 V DC -10/+15 %; adjustable on the front (ripple 2.0 %p-p max.)

Load current: ≤ 5 A

Overload protection: Voltage drop characteristics (105 %)

Overload detecting: 105 % of the rated current

■ Alarm Output

Transistor: NPN (sink) type; 30 V DC max., 50 mA DC max.

Residual voltage at ON: ≤ 2 V

Leakage current at OFF: ≤ 0.1 mA

INSTALLATION

Power input

AC: Operational voltage range 85 - 264 V AC 50/60 Hz

Operating temperature: 0 to 50°C (32 to 122°F)

Operating humidity: 25 to 85 % RH (non-condensing)

Mounting: DIN rail

Weight: 550 g (1.21 lb)

PERFORMANCE

Temp. coefficient: ±0.05 %/°C (±0.03 %/°F)

Load effect: ≤ 1.5 %

Line voltage effect: ±0.5 % over voltage range

Insulation resistance: ≥ 100 MΩ with 500 V DC

Dielectric strength: 3000 V AC @ 1 minute

(output voltage or alarm output to power input)

2000 V AC @ 1 minute (power input to ground)

1000 V AC @ 1 minute (output voltage or alarm output to ground)

STANDARDS & APPROVALS

EU conformity:

EMC Directive

EN 61204-3 (Class A)

Low Voltage Directive

EN 62477-1

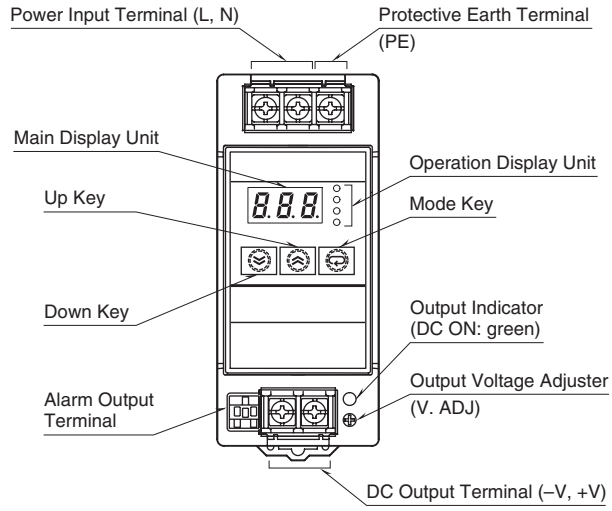
RoHS Directive

Approval:

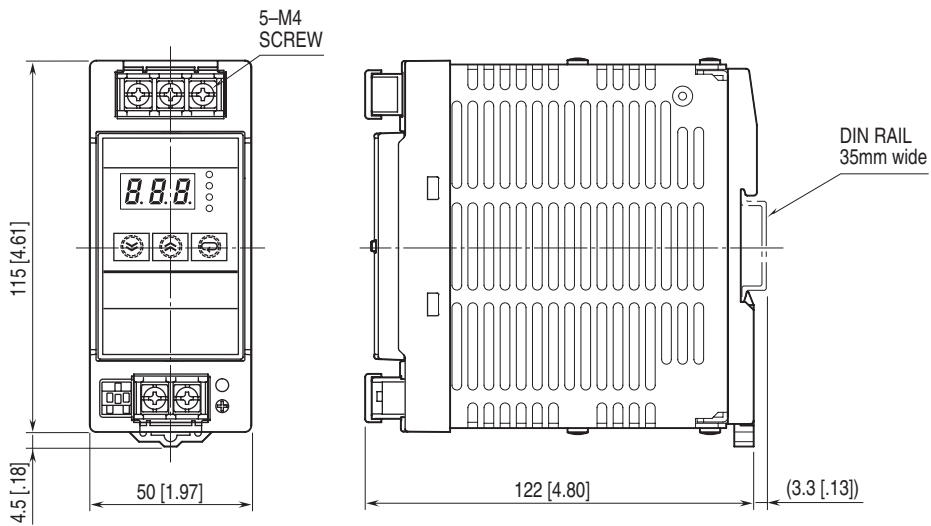
UL 508 (Class 2: per UL 1310)

CAN/CSA C22.2 No.14

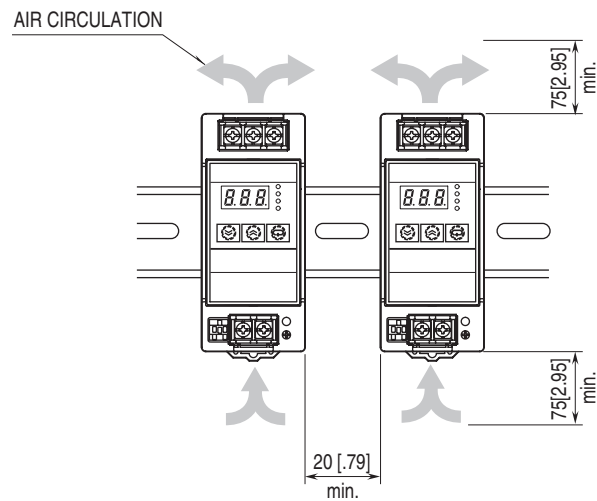
EXTERNAL VIEW



EXTERNAL DIMENSIONS unit: mm [inch]

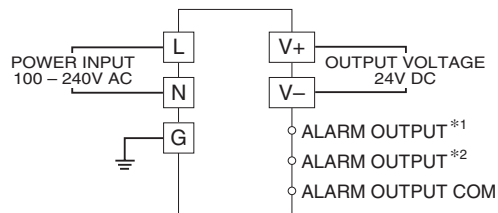


MOUNTING REQUIREMENTS unit: mm [inch]



Heat dissipation is important to ensure the power supply's long-term reliability.
The power supply is designed to radiate heat by means of natural air flow. Install the power supply so that the air flow circulates around it.

CONNECTION DIAGRAM



- *1. Undervoltage alarm output terminal (DC LOW)
- *2. Maintenance forecast monitor terminal (Yrs)



Specifications are subject to change without notice.