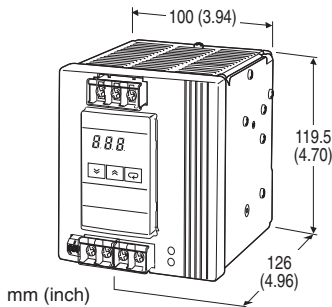


## DC POWER SUPPLY

(maintenance forecast monitor function)

### Functions & Features

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



## MODEL:MDC7-24024A-M2

### ORDERING INFORMATION

- Code number: MDC7-24024A-M2

### CAPACITY

240: 240 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:** M4 screw terminals (torque 1.08 N·m)

**Screw terminal:** Nickel-plated steel

**Housing material:** Flame-resistant resin (beige); aluminium

### SUPPLY OUTPUT

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

**Load current:**  $\leq 10$  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:**  $\leq 2$  V

**Leakage current at OFF:**  $\leq 0.1$  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:** 1150 g (2.54 lbs)

### PERFORMANCE

**Temp. coefficient:**  $\pm 0.05$  %/°C ( $\pm 0.03$  %/°F)

**Load effect:**  $\leq 1.5$  %

**Line voltage effect:**  $\pm 0.5$  % over voltage range

**Insulation resistance:**  $\geq 100$  M $\Omega$  with 500 V DC

**Dielectric strength:** 3000 V AC @ 1 minute

(output to power input)

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

1000 V AC @ 1 minute (output to ground)

### STANDARDS & APPROVALS

#### CE conformity:

EMC Directive (2004/108/EC)

EN 61204-3: 2000 (Class A)

Low Voltage Directive (2006/95/EC)

EN 50178: 1997

EN 60950-1: 2006 + A11: 2009

#### Approval:

UL 508 (Class 2: per UL 1310)

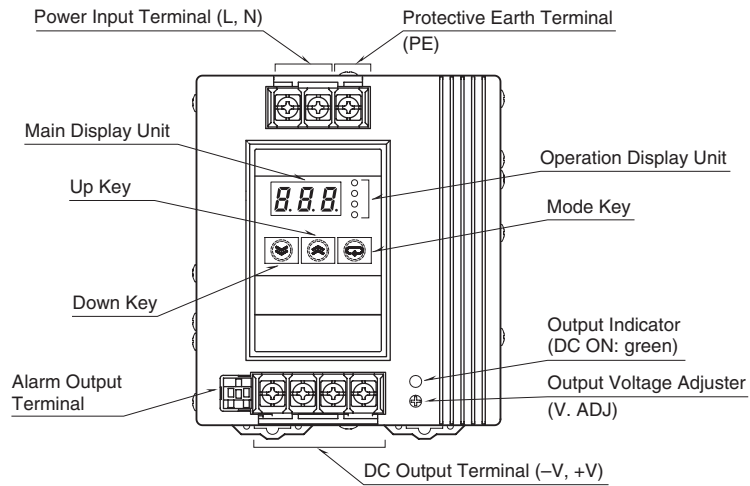
CAN/CSA C22.2 No.14

UL 60950-1 (Class 2)

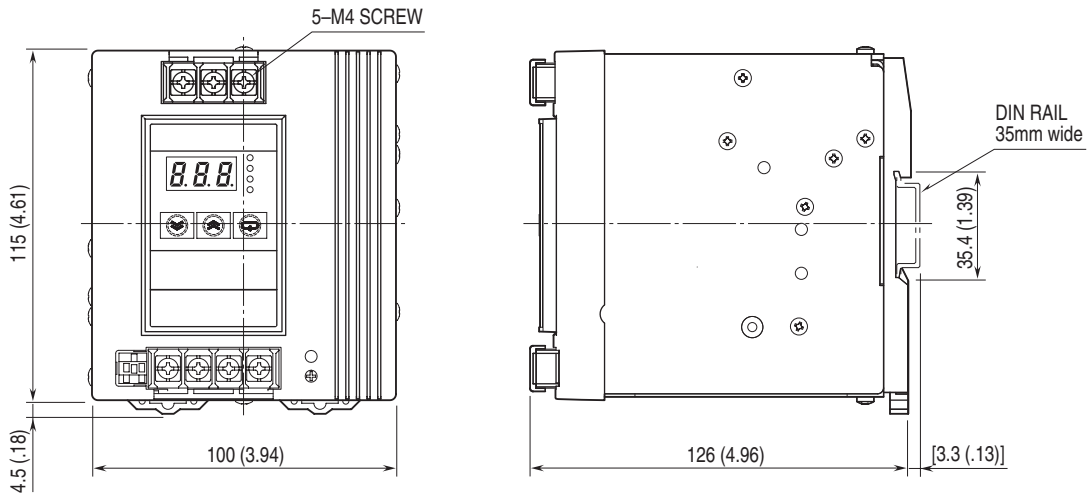
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VDE1060 VDE0805-1+A11

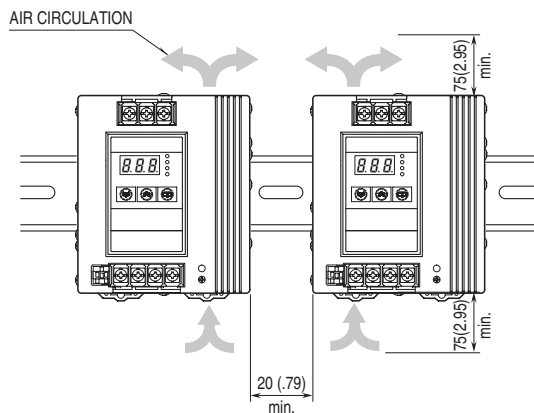
## EXTERNAL VIEW



## DIMENSIONS unit: mm (inch)

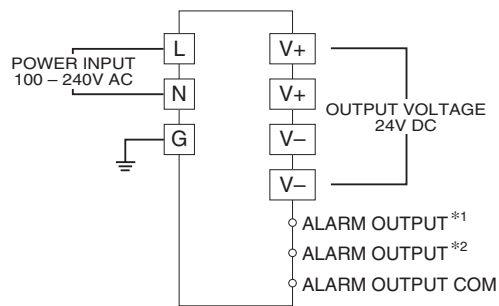


## MOUNTING REQUIREMENTS unit: mm (inch)



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.