

# CUT SHEET DEFINITE PURPOSE 3 POLE 120VAC 40 AMP



sales@contactordepot.com

<https://contactordepot.com/>

## General Information

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**Model:** 40A 3 Pole Normally Open (NO) 600V Definite Purpose Contactor

**Applications:** Ideal for HVAC, lighting, and refrigeration installations in both residential and commercial settings. Suitable for AC-1 (resistance furnaces, incandescent lamps, electric heaters) and AC-3 (air conditioners, compressors, fans) loads.

**Standards Compliance:** Fully compliant with IEC/EN standards.

**Mounting Type:** Compatible with DIN rail 35mm for easy and secure installation.

## Technical Specifications

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**Contactor Type:** Normally Open (NO)

**Rated Insulation Voltage (Ui):** 500V

**Rated Operational Voltage (Ue):** 600V AC

**Coil Voltage (Uc/Us):** 120V AC

**Frequency:** 50/60Hz

**Coil Load:**

Nominal Inrush @ 50Hz: 65VA

Nominal Inrush @ 60Hz: 60VA

Nominal Sealed @ 50Hz: 7.5VA

Nominal Sealed @ 60Hz: 6VA

**Full Load Amps (Inductive):** 40A

**Full Load Amps (Resistive):** 50A

**Power Indicator:** Yes

**IEC AC Rating:**

AC-1: 16 kW (resistive load)

AC-3: 11 kW (inductive load, e.g., motors, compressors)

**Operating Temperature:** -40°C to +65°C (-40°F to +150°F)

**Horsepower Rating:**

2HP @ 1 Phase – 120V

5HP @ 3 Phase – 208V

5HP @ 3 Phase – 230V

10HP @ 3 Phase – 480V

**Weight:** 1 lb (0.45 kg)

**Compliance:** CE approved

**Mounting:** Base or DIN rail 35mm mount

## Environmental Specifications

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**Operating Temperature Range:** -40°C to +65°C (-40°F to +150°F)

Compliance: CE approved, UL Certified

**Standards Compliance:** IEC/EN standards

## Physical Specifications

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**Dimensions:** 77 x 95.8 x 77 mm / 3.00" x 3.77" x 3.00" (Width x Height x Depth)

**Weight:** 1 lb (0.45 kg)

**Mounting:** DIN rail compatible (35mm)

**Wiring Capacity:**

Solid Conductor: 25 mm<sup>2</sup>, Max Torque: 0.6 Nm

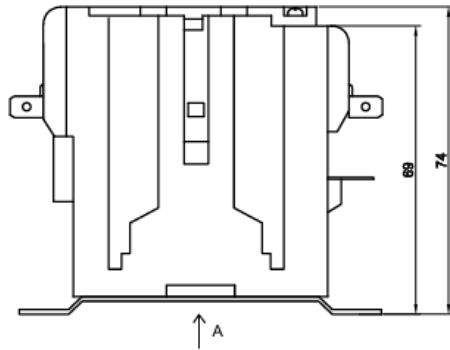
Stranded Conductor: 16 mm<sup>2</sup>, Max Torque: 0.6 Nm

## Features

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- High Capacity Performance: Rated for 50A resistive and 40A inductive loads, this 3-pole NO contactor is designed for reliable performance in HVAC, lighting, and motor control applications.
- Wide Voltage Compatibility: Supports 120V AC coil and is ideal for 600V systems. Compatible with various inductive and resistive loads.
- Efficient and Silent Coil: 65VA inrush and 7.5VA sealed coil ensures low energy consumption with quiet operation.
- Reliable Switching Capacity: Handles up to 16 kW at AC-1 ratings, making it ideal for air conditioners, compressors, and motors.
- Built-in Power Indicator: Includes a visual status light for easy troubleshooting and monitoring.
- DIN Rail Mounting: Standard 35mm DIN rail compatible for fast and secure installation.
- Safety Compliance: Meets CE and UL standards for reliable performance in both residential and industrial settings.

## Specifications and Wiring Diagram



wiring diagram:

