

CUT SHEET 3 POLE N.O. and Auxiliary 1NO/1NC 220/230VAC Coil

NLC1-D80



sales@contactordepot.com

<https://contactordepot.com/>

General Information

Model: 3 Pole IEC 660V Contactor - Normally Open (N.O.) and Auxiliary 1NO/1NC

Applications: Suitable for industrial and residential systems, including HVAC, lighting control, and motor control. Designed for frequent start-stop operations and demanding AC-3 and AC-4 applications.

Standards Compliance: Fully compliant with IEC/EN 60947-4 standards.

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

Technical Specifications

Contacts: Normally Open (N.O.) and Auxiliary 1NO/1NC

Rated Voltage:

220/230V AC

Rated Operational Current (Ie):

80A @ 380–400V (AC-3)

49A @ 660–690V (AC-3)

Rated Power (Pe):

45 kW @ 660–690V

Current Capacity:

Resistive Load (AC-1): 125A

Inductive Load (AC-3): 80A @ 380–400V, 49A @ 660–690V

Rated Insulation Voltage (Ui): 690V

Dielectric Strength: 4 kV

Coil Load:

Inrush: 300VA

Sealed: 57VA

Environmental Specifications

Operating Temperature Range: -5°C to +50°C (23°F to 122°F)

Storage Temperature: -40°C to +70°C (-40°F to 158°F)

Compliance: CE approved, UL pending

Altitude: Operates up to 3000m without derating

Standards Compliance:

IEC/EN 60947-4

IEC 60947-5-1

Physical Specifications

Dimensions: 85 × 125 × 127 mm / 3.35" × 4.92" × 5.00" (Width × Height × Depth)**Mounting:** Base or DIN rail 35mm**Wiring Capacity:**Solid Conductor: 25 mm², Max Torque: 0.6 NmStranded Conductor: 16 mm², Max Torque: 0.6 Nm**Features**

- High Current Performance: Rated for 80A inductive and 125A resistive loads, this IEC contactor is built to manage heavy-duty switching for motors, compressors, and industrial control systems with consistent performance and durability.
- Robust Motor Capacity: Supports motor loads up to 45kW at 415–690V, making it ideal for frequent start-stop applications under AC-3 and AC-4 utilization categories.
- Optimized Coil Efficiency: Equipped with a powerful coil design rated at 300VA inrush and 57VA holding power, ensuring strong energization and efficient long-term operation.
- Integrated Auxiliary Contacts: Comes standard with 1 Normally Open (NO) and 1 Normally Closed (NC) auxiliary contact, enabling advanced control, interlock, or status feedback integration in automated systems.
- Reliable in Harsh Environments: Operates in ambient temperatures from -5°C to 50°C (23°F to 122°F) and stores safely between -40°C and 70°C (-40°F to 158°F), maintaining stability in tough industrial conditions.
- High Altitude Ready: Performs reliably at altitudes up to 3000 meters without the need for performance derating, suitable for elevated or variable-terrain installations.
- Easy DIN Rail Mounting: Designed for quick and secure installation on 35mm DIN rails, facilitating fast setup and easy replacement in electrical panels.
- Compliance You Can Trust: Fully compliant with IEC/EN 60947-4 standards for international safety and performance, with CE approval for regulated applications.

Specifications

