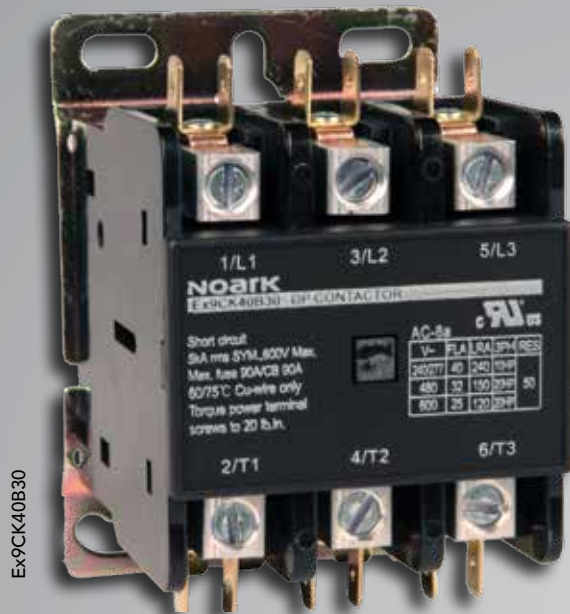


Information Sheet
Definite Purpose Contactors
Ex9CK Series



NOARK Electric's Definite Purpose Contactors

A perfect blend of quality, performance and exceptional value

Broad Product Range

- Amperage ratings: 20~90 A
- Coil voltages: 24~600 Vac
- Pole configurations: 1, 2, 3 and 4

Global Acceptance

- Certified as UL recognized component and according to CSA standards, IEC 60947 and VDE standards

Benefits

- Industry standard mounting plate provides easily accessible mounting holes
- Available with enclosed coils for protection against particle contamination
- More connection terminal options, including screw or lug connections each with quick connect spades

| | | 20 | | | 25 | | | 30 | | | | 32 | | | 40 | | | | 50 | 60 | 75 | 90 |
|---|---------------------------|--|----------------|----------|---------------|----------------|-------------|---------------|-------------------------------------|----------|------------|----------------|-------------------------------------|----------|-------------------------------------|----------|---------------|----------------|-----------------------------------|-------------------------------------|-----------------------------------|-----------------------------------|
| Poles | | 1 Pole+ Shunt | 2 Poles | 3 Poles | 1 Pole+ Shunt | 2 Poles | 3 Poles | 1 Pole+ Shunt | 2 Poles | 3 Poles | 4 Poles | 1 Pole+ Shunt | 2 Poles | 3 Poles | 1 Pole+ Shunt | 2 Poles | 3 Poles | 4 Poles | 3 Poles | | | |
| Power Consumption* | In-Rush (Vac) @ 50 Hz | 55 | | | 51 | | | 55 | | 51 | | - | 55 | | 51 | | 55 | | 51 | | 84 | 165 |
| | Sealed (Vac) @ 50 Hz | 13 | | | 12 | | | 13 | | 12 | | - | 13 | | 12 | | 13 | | 12 | | 14 | 30 |
| | In-Rush (Vac) @ 60 Hz | 25 | 40 | 47 | 25 | 40 | 47 | 25 | 40 | 47 | 51 | 25 | 40 | 47 | 25 | 40 | 47 | 51 | 83 | 250 | | |
| | Sealed (Vac) @ 60 Hz | 6.7 | 8.8 | 9.3 | 6.7 | 8.8 | 9.3 | 6.7 | 8.8 | 9.3 | 12 | 6.7 | 8.8 | 9.3 | 6.7 | 8.8 | 9.3 | 12 | 9.3 | 27 | | |
| Operation Range | Pick-Up Voltage | 85~110% Us | | | | | | | | | | | | | | | | | | | | |
| | Drop-Out Voltage | 20~65% Us | | | | | | | | | | | | | | | | | | | | |
| Power Supply Voltage Us | | 50/60 Hz; 24~600 Vac | | | | | | | | | | | | | | | | | | | | |
| Terminal Connection | | | | | | | | | | | | | | | | | | | | | | |
| Line and Load Terminals | | #10-32 Screw Box Lug | | | | | | | | | | | | | | | | | | | | |
| Copper Cable AWG (mm ²) | Ridge Wire w/ Single Core | Screw | 14~10 (2.5~6) | | | | 12~8 (4~10) | | 16~8 (1.5~10) | | 2~8 (4~10) | | ¹⁶⁻⁸ _(1.5-10) | | 2~8 (4~10) | | 16~8 (1.5~10) | | - | | | |
| | | Lug | 14~8 (2.5~10) | | | | | | ¹⁴⁻⁴ _(2.5-21) | | | | 14~8 (2.5~10) | | ¹⁴⁻⁴ _(2.5-21) | | | | ¹⁰⁻⁶ ₍₆₋₁₄₎ | ¹⁴⁻⁶ _(2.5-16) | ⁶⁻³ ₍₁₆₋₃₅₎ | ⁴⁻³ ₍₂₅₋₃₅₎ |
| | Flexible Stranded Wire | Screw | 14~12 (2.5~6) | | | | | | | | | | | | | | | | | | | |
| | | Lug | 14~8 (2.5~10) | | | | | | ¹⁴⁻¹² _(2.5-6) | | | | 14~8 (2.5~10) | | ¹⁴⁻¹² _(2.5-6) | | | | 10~8 (4~10) | | ⁸⁻⁴ ₍₁₀₋₂₅₎ | ⁸⁻⁴ ₍₁₆₋₂₅₎ |
| Tightening Torque in-lb (N.m) | Coil | - | | | | | | | | | | | | | | | | | | | | |
| | Main Circuit | Screw | 20 (1.8~2) | | | | | | ²² _(1.8-2.5) | | | | 20 (1.8~2) | | ²² _(1.8-2.5) | | | | 10 (0.8~1.2) | | | |
| | | Lug | 40 (4~6) | | | | | | | | | | | | | | | | | | | |
| Quick Connects | Power Terminals | Dual 0.250 QC (2) [Ex9CK 50~90 Power Terminals Only] | | | | | | | | | | | | | | | | | | | | |
| | Coil Terminals | Dual 0.250 QC (2) • 6~32 Screw and 0.250 QC (2) [Ex9CK 60 Coil Terminals Only] | | | | | | | | | | | | | | | | | | | | |
| | 0.250 Standard | Quad | Dual or Quad** | Dual | Quad | Dual or Quad** | Dual | Quad | Dual or Quad** | Dual | Quad | Dual or Quad** | Dual | Quad | Dual or Quad** | Dual | Quad | Dual or Quad** | Dual | - | | |
| Covers | Optional | Standard | Optional | Standard | Optional | Standard | Optional | Standard | Optional | Standard | Optional | Standard | Optional | Standard | Optional | Standard | Optional | Standard | Standard | | | |
| Insulation System | | Class H 180 °C (356 °F) | | | | | | | | | | | | | | | | | | | | |

* Power consumption is the same for 24, 120, 240, 277 and 480 Vac.
 ** Quad is standard. Contact NOARK sales representative to order dual.

Product Selection Guide

