


NOARK

# Ex9CS06DBB

Mini contactor - 1320524 - Ex9CS - 20A - 24Vdc - 4P (2NO+2NC)

Miniature contactor - NOARK (Ex9CS series) - 4-poles (4P; 2NO+2NC) - 20A (690Vac; AC-1) rated current - 20.4-26.4Vdc (24Vdc nom.; 0.85...1.1 x Uc) coil - Screw connection - 2.2kW (380/400Vac; AC-3) / 1HP (220-240Vac; single-phase; UL) / 3HP (440-480Vac; 3-phase; UL) rated power - DIN rail mounting (NS35/7.5) - Direct On Line (DOL) / FVNR (Full-Voltage Non-Rv.) - IP20 - equivalent to 1320524

## Additional information

The technical information provided in the datasheet is subject to change without notice. For confirmation, please contact NOARK's product support team.

## Specifications

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| **Primary brand** | NOARK |
| **Main function** | Contactor |
| **Product series / family name** | Industrial controls > Contactors > Standard contactors > DOL / FVNR |
| **Sub-range name** | Ex9CS series |
| **Functions** | Miniature contactor |
| **Poles** | 4-poles (4P; 2NO+2NC) |

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| **Rated current** | 20A (690Vac; AC-1)<br>6A (380/400Vac; AC-3)<br>3.8A (660/690Vac; AC-3)<br>15A (24Vdc; DC-1; 1P/2P/3P series connection)<br>15A (48/75Vdc; DC-1; 1P/2P/3P series connection)<br>4A (125Vdc; DC-1; 1P series connection)<br>15A (125Vdc; DC-1; 2P/3P series connection)<br>1A (225Vdc; DC-1; 1P series connection)<br>4A (225Vdc; DC-1; 2P series connection)<br>15A (225Vdc; DC-1; 3P series connection)<br>15A (24Vdc; DC-2 to DC-5; 1P/2P/3P series connection)<br>5A (48/75Vdc; DC-2 to DC-5; 1P series connection)<br>15A (48/75Vdc; DC-2 to DC-5; 2P/3P series connection)<br>1.5A (125Vdc; DC-2 to DC-5; 1P series connection)<br>11A (125Vdc; DC-2 to DC-5; 2P series connection)<br>15A (125Vdc; DC-2 to DC-5; 3P series connection)<br>0.5A (225Vdc; DC-2 to DC-5; 1P series connection)<br>1.5A (225Vdc; DC-2 to DC-5; 2P series connection)<br>5A (225Vdc; DC-2 to DC-5; 3P series connection)<br>6A (120Vac; AC-15)<br>3A (240Vac; AC-15)<br>1.9A (380Vac; AC-15)<br>1.2A (600Vac; AC-15)<br>1.1A (125Vdc; DC-13)<br>0.55A (250Vdc; DC-13)<br>20A (Ith conventional free air thermal current at 40˚C ambient)<br>20A (Ith conventional free air thermal current at 60˚C ambient)<br>16A (Ith conventional free air thermal current at 70˚C ambient) |
| **Rated active power (kW)** | 2.2kW (380/400Vac; AC-3)<br>1.5kW (230Vac; AC-3)<br>3kW (660/690Vac; AC-3) |
| **Rated power (HP)** | 3HP (440-480Vac; 3-phase; UL)<br>1HP (220-240Vac; single-phase; UL)<br>0.5HP / 1/2HP (110-120Vac; single-phase; UL)<br>1.5HP / 1-1/2HP (200-208Vac; 3-phase; UL)<br>2HP (220-240Vac; 3-phase; UL)<br>5HP (550-600Vac; 3-phase; UL) |
| **Rated operating voltage (Ue)** | (aux. contacts) 690 V |
| **Rated impulse voltage (Uimp)** | 6 kV |
| **Rated insulation voltage (Ui)** | 690 V |
| **Connection type** | Screw connection<br>M3 screw connection (power circuits)<br>M3 screw connections (auxiliary contact) |
| **Cross-section** | #18AWG...#12AWG / 1mm2...2.5mm2 conductors (main power connection; bare flexible cable)<br>#18AWG...#12AWG / 1mm2...2.5mm2 conductors (main power connection; bare rigid cable)<br>#18AWG...#12AWG / 1mm2...2.5mm2 conductors (auxiliary contact terminal connection) |
| **Control Voltage (DC)** | 20.4-26.4Vdc (24Vdc nom.; 0.85...1.1 x Uc)<br>2.4-18Vdc drop-out (0.1...0.75 x Uc) -- guaranteed control voltage range where contactor will always open |

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| **Mounting mode** | DIN rail mounting (NS35/7.5)<br>screw mounting on a plate (4mm holes) |
| **Normally Open (NO) auxliary contacts** | 0 NO contacts |
| **Normally Closed (NC) auxiliary contacts** | 0 NC contacts |
| **Response time** | (operating / closing time) 15-40ms / 0.015-0.04 s<br>(drop-off / opening time) 8-15ms / 0.008-0.015 s |
| **Degree of protection** | IP20 |
| **Dimensions** | H58mm x W68mm x L45mm<br>H2.28" x W2.68" x L1.77" |
| **Ambient air temperature for operation** | -4˚F...+140˚F / -20˚C...+60 ˚C |
| **Ambient air temperature for storage** | -76˚F...+176˚F / -60˚C...+80 ˚C |
| **Power consumption** | (hold) 4 W<br>(pick-up) 4 W |
| **Application type** | Direct On Line (DOL)<br>FVNR (Full-Voltage Non-Rv.)<br>6562ft / 2000m max. height above sea level |
| **Order code / Manufacturer SKU** | Ex9CS06DBB<br>1320524 |
| **Manufacturer product status** | Commercialized |
| **Equivalent to** | 1320524 |
| **Compliant with standard(s)** | UL 508 (file number E353866)<br>IEC 60947<br>EN 60947<br>CSA<br>CCC<br>RoHS compliant<br>Production Standard -- IEC 60947-1<br>Production Standard -- IEC 60947-4-1<br>Production Standard -- UL 60947-1<br>Production Standard -- UL 60947-4-1<br>Environmental Testing According to IEC 60068-2-1 / IEC 60068-2-2 / IEC 60068-2-11 / IEC 60068-2-30 |
| **Electrical durability** | (AC-4; 380/400V) 60 000 hours<br>(AC-3; 380/400V) 120 000 hours |
| **Mechanical durability** | 10 000 000 hours |
| **Operating rate** | (AC-3) 1200 Cycles/hour<br>(AC-4) 300 Cycles/hour |
| **Tightening torque** | (main power terminal connection) 0.8 N.m<br>(auxiliary contact connection) 0.8 N.m |

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| **Degree of pollution** | Class III |

## Benefits

Ex9C contactors are intended for various applications including heavy industrial loads.
9 frame sizes allows optimization of electrical parameters and mechanical dimensions.

A range of overload relays are available in a variety of frame sizes to fit respective contactors of given rated current.
- Nine frame sizes with rated current up to 1000A at 690V AC-3
- Coil control voltage available in AC and DC with ranges from 24-600V
- Wide range electronic coil available for 9-500A contactors features built-in surge suppression
- DIN rail 35mm and panel mountable

## Documents

E-PLAN - NOARK - Ex9CS06DBB - Part details

NOARK - Industrial controls - Catalog.pdf

Access to all NOARK drawings

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