

NOARK

# Ex9C115F22K

Contactor - 1321435 - Ex9C - 115A - 100-250Vac/dc - 3P (3NO) - 2NO+2NC aux. contacts

Contactor - NOARK (Ex9C series) - 3-poles (3P; 3NO) - 115A (380/400Vac; AC-3) rated current - 85-275Vac (100Vac-250Vac nom.; 50/60Hz; 0.85...1.1 x Uc) / 85-275Vdc (100Vdc-250Vdc nom.; 0.85...1.1 x Uc) coil - 2NO+2NC aux. contact - Screw connection - 55kW (380/400Vac; AC-3) / 25HP (220-240Vac; single-phase; UL) / 100HP (440-480Vac; 3-phase; UL) rated power - Direct On Line (DOL) / FVNR (Full-Voltage Non-Rv.) - IP20 - equivalent to 1321435

## 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** | Ex9C series |
| **Functions** | Contactor |
| **Poles** | 3-poles (3P; 3NO) |

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| **Rated current** | 115A (380/400Vac; AC-3)<br>115A (660/690Vac; AC-3)<br>160A (690Vac; AC-1)<br>160A (24Vdc; DC-1; 1P/2P/3P series connection)<br>160A (48/75Vdc; DC-1; 1P/2P/3P series connection)<br>115A (125Vdc; DC-1; 1P series connection)<br>160A (125Vdc; DC-1; 2P/3P series connection)<br>160A (24Vdc; DC-2 to DC-5; 1P/2P/3P series connection)<br>7.5A (48/75Vdc; DC-2 to DC-5; 1P series connection)<br>160A (48/75Vdc; DC-2 to DC-5; 2P/3P series connection)<br>2.5A (125Vdc; DC-2 to DC-5; 1P series connection)<br>160A (125Vdc; DC-2 to DC-5; 2P/3P series connection)<br>2A (225Vdc; DC-2 to DC-5; 1P series connection)<br>7.5A (225Vdc; DC-2 to DC-5; 2P series connection)<br>160A (225Vdc; DC-2 to DC-5; 3P series connection)<br>6A (24Vac; AC-15)<br>3.13A (230Vac; AC-15)<br>3A (240Vac; AC-15)<br>1.8A (400Vac; AC-15)<br>1.04A (690Vac; AC-15)<br>0.55A (125Vdc; DC-13)<br>0.31A (220Vdc; DC-13)<br>0.27A (250Vdc; DC-13)<br>160A (Ith conventional free air thermal current at 40˚C ambient)<br>160A (Ith conventional free air thermal current at 60˚C ambient)<br>140A (Ith conventional free air thermal current at 70˚C ambient) |
| **Rated active power (kW)** | 55kW (380/400Vac; AC-3)<br>37kW (230Vac; AC-3)<br>110kW (660/690Vac; AC-3)<br>75kW (1000Vac; AC-3) |
| **Rated power (HP)** | 100HP (440-480Vac; 3-phase; UL)<br>25HP (220-240Vac; single-phase; UL)<br>15HP (110-120Vac; single-phase; UL)<br>40HP (200-208Vac; 3-phase; UL)<br>50HP (220-240Vac; 3-phase; UL)<br>125HP (550-600Vac; 3-phase; UL) |
| **Rated operating voltage (Ue)** | (aux. contacts) 690 V |
| **Rated impulse voltage (Uimp)** | 8 kV |
| **Rated insulation voltage (Ui)** | 1000 V |
| **Connection type** | Screw connection<br>M8 screw connection (power circuits)<br>M3.5 screw connections (auxiliary contact) |
| **Cross-section** | 1 x #4AWG / 25mm2 and 2 x 250MCM / 120mm2 conductors (main power connection; bare flexible cable)<br>1 x #4AWG / 25mm2 and 2 x 250MCM / 120mm2 conductors (main power connection; bare rigid cable)<br>2 x 20mm 5mm busbars<br>#18AWG...#12AWG / 1mm2...2.5mm2 conductors (auxiliary contact terminal connection) |
| **Control Voltage (AC)** | 85-275Vac (100Vac-250Vac nom.; 50/60Hz; 0.85...1.1 x Uc)<br>50-75Vac drop-out (0.2Ucmax...0.75Ucmin) -- guaranteed control voltage range where contactor will always open |

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| **Control Voltage (DC)** | 85-275Vdc (100Vdc-250Vdc nom.; 0.85...1.1 x Uc)<br>25-75Vdc drop-off (0.1Ucmax...0.75Ucmin) |
| **Mounting mode** | screw mounting on a plate (8mm holes) |
| **Normally Open (NO) auxliary contacts** | 2 NO contacts |
| **Normally Closed (NC) auxiliary contacts** | 2 NC contacts |
| **Response time** | (operating / closing time) 75-120ms / 0.075-0.12 s<br>(drop-off / opening time) 45-70ms / 0.045-0.07 s |
| **Contacts type** | 2NO+2NC (2 Normally Open + 2 Normally Closed) aux. contacts |
| **Degree of protection** | IP20 |
| **Dimensions** | H173mm x W120mm x L174mm<br>H6.81" x W4.75" x L6.85" |
| **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** | (DC; hold) 5 W<br>(DC; pick-up) 400 W |
| **Power consumption** | (AC; inrush) 400 VA<br>(AC; sealed) 18 VA |
| **Power factor (cos phi)** | 0.9-0.95 (coil) |
| **Application type** | Direct On Line (DOL)<br>FVNR (Full-Voltage Non-Rv.)<br>6562ft / 2000m max. height above sea level |
| **Order code / Manufacturer SKU** | Ex9C115F22K<br>1321435 |
| **Manufacturer product status** | Commercialized |
| **Equivalent to** | 1321435 |
| **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) 200 000 hours<br>(AC-3; 380/400V) 1 000 000 hours |

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| **Mechanical durability** | 8 000 000 hours |
| **Operating rate** | (AC-3) 900 Cycles/hour<br>(AC-4) 130 Cycles/hour |
| **Tightening torque** | (main power terminal connection) 18 N.m<br>(busbar terminal connection) 18 N.m<br>(auxiliary contact connection) 1.7 N.m |
| **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 - Ex9C115F22K - Part details

NOARK - Industrial controls - Catalog.pdf

Access to all NOARK drawings

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