

NOARK

Ex9C100F11K

Contactor - 1321950 - Ex9C - 100A - 48-130Vac/dc - 3P (3NO) - 1NO+1NC aux. contacts

Contactor - NOARK (Ex9C series) - 3-poles (3P; 3NO) - 100A (380/400Vac; AC-3) rated current - 40.8-143Vac (48Vac-130Vac nom.; 50/60Hz; 0.85...1.1 x Uc) / 40.8-143Vdc (48Vdc-130Vdc nom.; 0.85...1.1 x Uc) coil - 1NO+1NC aux. contact - Screw connection - 45kW (380/400Vac; AC-3) / 20HP (220-240Vac; single-phase; UL) / 60HP (440-480Vac; 3-phase; UL) rated power - DIN rail mounting (35/7.5 or 75/7.5) - Direct On Line (DOL) / FVNR (Full-Voltage Non-Rv.) - IP20 - equivalent to 1321950

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

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	100A (380/400Vac; AC-3) 49A (660/690Vac; AC-3) 125A (690Vac; AC-1) 100A (24Vdc; DC-1; 1P/2P/3P series connection) 100A (48/75Vdc; DC-1; 1P/2P/3P series connection) 100A (125Vdc; DC-1; 1P/2P/3P series connection) 100A (24Vdc; DC-2 to DC-5; 1P/2P/3P series connection) 100A (48/75Vdc; DC-2 to DC-5; 1P/2P/3P series connection) 5A (125Vdc; DC-2 to DC-5; 1P series connection) 80A (125Vdc; DC-2 to DC-5; 2P series connection) 100A (125Vdc; DC-2 to DC-5; 3P series connection) 2A (225Vdc; DC-2 to DC-5; 1P series connection) 5A (225Vdc; DC-2 to DC-5; 2P series connection) 100A (225Vdc; DC-2 to DC-5; 3P series connection) 6A (120Vac; AC-15) 3A (240Vac; AC-15) 1.9A (380Vac; AC-15) 1.2A (600Vac; AC-15) 0.55A (125Vdc; DC-13) 0.31A (220Vdc; DC-13) 0.27A (250Vdc; DC-13) 125A (Ith conventional free air thermal current at 40˚C ambient) 125A (Ith conventional free air thermal current at 60˚C ambient) 94A (Ith conventional free air thermal current at 70˚C ambient)
Rated active power (kW)	45kW (380/400Vac; AC-3) 25kW (230Vac; AC-3) 45kW (660/690Vac; AC-3)
Rated power (HP)	60HP (440-480Vac; 3-phase; UL) 20HP (220-240Vac; single-phase; UL) 10HP (110-120Vac; single-phase; UL) 30HP (200-208Vac; 3-phase; UL) 40HP (220-240Vac; 3-phase; UL) 60HP (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 M8 screw connection (power circuits) M3.5 screw connections (auxiliary contact)
Cross-section	#12AWG...#1/0AWG / 2.5mm2...50mm2 conductors (main power connection; bare flexible cable) 2 x #12AWG...#1AWG / 2.5mm2...42.5mm2 conductors (main power connection; bare flexible cable) #12AWG...#1/0AWG conductors / 2.5mm2...50mm2 conductors (main power connection; bare rigid cable) 2 x #12AWG...#1AWG / 2.5mm2...42.5mm2 conductors (main power connection; bare rigid cable) #18AWG...#12AWG / 1mm2...2.5mm2 conductors (auxiliary contact terminal connection)
Control Voltage (AC)	40.8-143Vac (48Vac-130Vac nom.; 50/60Hz; 0.85...1.1 x Uc) 26-36Vac drop-out (0.2Ucmax...0.75Ucmin) -- guaranteed control voltage range where contactor will always open

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Control Voltage (DC)	40.8-143Vdc (48Vdc-130Vdc nom.; 0.85...1.1 x Uc) 13-36Vdc drop-off (0.1Ucmax...0.75Ucmin)
Mounting mode	DIN rail mounting (35/7.5 or 75/7.5) screw mounting on a plate (5mm holes)
Normally Open (NO) auxliary contacts	1 NO contacts
Normally Closed (NC) auxiliary contacts	1 NC contacts
Response time	(operating / closing time) 50-100ms / 0.05-0.1 s (drop-off / opening time) 20-120ms / 0.02-0.12 s
Contacts type	1NO+1NC (1 Normally Open + 1 Normally Closed) aux. contacts
Degree of protection	IP20
Dimensions	H130mm x W87mm x L130mm H5.19" x W3.43" x L5.19"
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) 8 W (DC; pick-up) 100 W
Power consumption	(AC; inrush) 100 VA (AC; sealed) 15 VA
Application type	Direct On Line (DOL) FVNR (Full-Voltage Non-Rv.) 6562ft / 2000m max. height above sea level
Order code / Manufacturer SKU	Ex9C100F11K 1321950
Manufacturer product status	Commercialized
Equivalent to	1321950
Compliant with standard(s)	UL 508 (file number E353866) IEC 60947 EN 60947 CSA CCC RoHS compliant Production Standard -- IEC 60947-1 Production Standard -- IEC 60947-4-1 Production Standard -- UL 60947-1 Production Standard -- UL 60947-4-1 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) 25 000 hours (AC-3; 380/400V) 1 200 000 hours

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Mechanical durability	10 000 000 hours
Operating rate	(AC-3) 900 Cycles/hour (AC-4) 120 Cycles/hour
Tightening torque	(main power terminal connection) 9 N.m (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 - Ex9C100F11K - Part details

NOARK - Industrial controls - Catalog.pdf

Access to all NOARK drawings

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