

NOARK

Ex9CR185E22G

Reversing contactor assembly - 1321493 - Ex9C - 185A - 120Vac/dc - 3P (3NO) - 2NO+2NC aux. contacts

Reversing contactor assembly - NOARK (Ex9C series) - 3-poles (3P; 3NO) - 185A (380/400Vac; AC-3) rated current - 102-132Vac (120Vac nom.; 50/60Hz; 0.85...1.1 x Uc) / 102-132Vdc (120Vdc nom.; 0.85...1.1 x Uc) coil - 2NO+2NC aux. contact - Screw connection - 90kW (380/400Vac; AC-3) / 40HP (220-240Vac; single-phase; UL) / 150HP (440-480Vac; 3-phase; UL) rated power - 2-directions / Reversing (REV) / FVR (Full-Voltage Reversing) - IP20 - equivalent to 1321493

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 > Reversing / FVR
Sub-range name	Ex9C series
Functions	Reversing contactor assembly
Poles	3-poles (3P; 3NO)

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Rated current	185A (380/400Vac; AC-3) 170A (660/690Vac; AC-3) 215A (690Vac; AC-1) 200A (24Vdc; DC-1; 1P/2P/3P series connection) 200A (48/75Vdc; DC-1; 1P/2P/3P series connection) 150A (125Vdc; DC-1; 1P series connection) 200A (125Vdc; DC-1; 2P/3P series connection) 160A (24Vdc; DC-2 to DC-5; 1P/2P/3P series connection) 7.5A (48/75Vdc; DC-2 to DC-5; 1P series connection) 160A (48/75Vdc; DC-2 to DC-5; 2P/3P series connection) 2.5A (125Vdc; DC-2 to DC-5; 1P series connection) 160A (125Vdc; DC-2 to DC-5; 2P/3P series connection) 2A (225Vdc; DC-2 to DC-5; 1P series connection) 7.5A (225Vdc; DC-2 to DC-5; 2P series connection) 160A (225Vdc; DC-2 to DC-5; 3P series connection) 6A (24Vac; AC-15) 3.13A (230Vac; AC-15) 3A (240Vac; AC-15) 1.8A (400Vac; AC-15) 1.04A (690Vac; AC-15) 0.55A (125Vdc; DC-13) 0.31A (220Vdc; DC-13) 0.27A (250Vdc; DC-13) 215A (Ith conventional free air thermal current at 40˚C ambient) 200A (Ith conventional free air thermal current at 60˚C ambient) 180A (Ith conventional free air thermal current at 70˚C ambient)
Rated active power (kW)	90kW (380/400Vac; AC-3) 55kW (230Vac; AC-3) 160kW (660/690Vac; AC-3) 90kW (1000Vac; AC-3)
Rated power (HP)	150HP (440-480Vac; 3-phase; UL) 40HP (220-240Vac; single-phase; UL) 60HP (200-208Vac; 3-phase; UL) 75HP (220-240Vac; 3-phase; UL) 200HP (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	1 x #4AWG / 25mm2 and 2 x 250MCM / 120mm2 conductors (main power connection; bare flexible cable) 1 x #4AWG / 25mm2 and 2 x 250MCM / 120mm2 conductors (main power connection; bare rigid cable) 2 x 20mm 5mm busbars #18AWG...#12AWG / 1mm2...2.5mm2 conductors (auxiliary contact terminal connection)
Control Voltage (AC)	102-132Vac (120Vac nom.; 50/60Hz; 0.85...1.1 x Uc) 24-90Vac drop-out (0.2...0.75 x Us) -- guaranteed control voltage range where contactor will always open

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Control Voltage (DC)	102-132Vdc (120Vdc nom.; 0.85...1.1 x Uc) 12-90Vdc drop-out (0.1...0.75 x Uc) -- guaranteed control voltage range where contactor will always open
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) 30-65ms / 0.03-0.065 s (drop-off / opening time) 45-65ms / 0.045-0.065 s
Contacts type	2NO+2NC (2 Normally Open + 2 Normally Closed) aux. contacts
Degree of protection	IP20
Dimensions	H230mm x W249mm x L193.5mm H9.06" x W9.8" x L7.62"
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) 10 W (DC; pick-up) 400 W
Power consumption	(AC; inrush) 400 VA (AC; sealed) 10 VA
Power factor (cos phi)	0.9-0.95 (coil)
Application type	2-directions / Reversing (REV) FVR (Full-Voltage Reversing) 6562ft / 2000m max. height above sea level
Order code / Manufacturer SKU	Ex9CR185E22G 1321493
Manufacturer product status	Commercialized
Equivalent to	1321493
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

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Electrical durability	(AC-4; 380/400V) 20 000 hours (AC-3; 380/400V) 1 000 000 hours
Mechanical durability	8 000 000 hours
Operating rate	(AC-3) 750 Cycles/hour (AC-4) 130 Cycles/hour
Tightening torque	(main power terminal connection) 18 N.m (busbar terminal connection) 18 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 - Ex9CR185E22G - Part details

NOARK - Industrial controls - Catalog.pdf

Access to all NOARK drawings

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