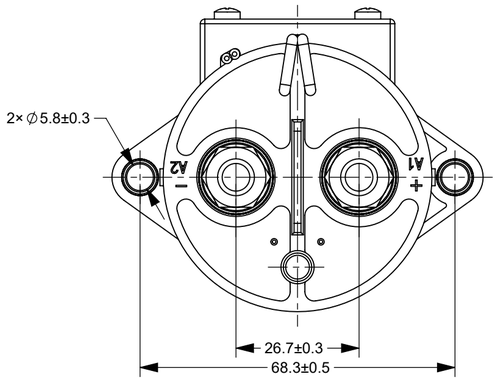
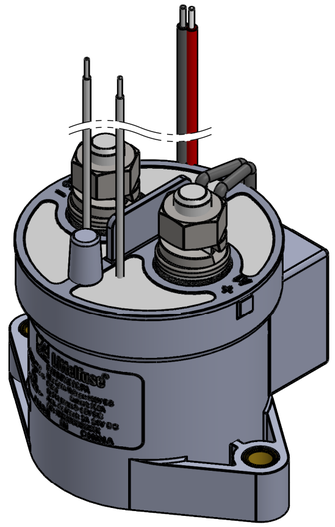
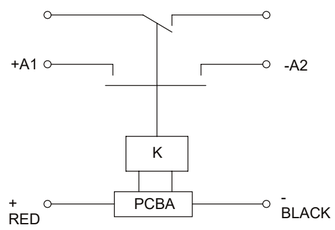
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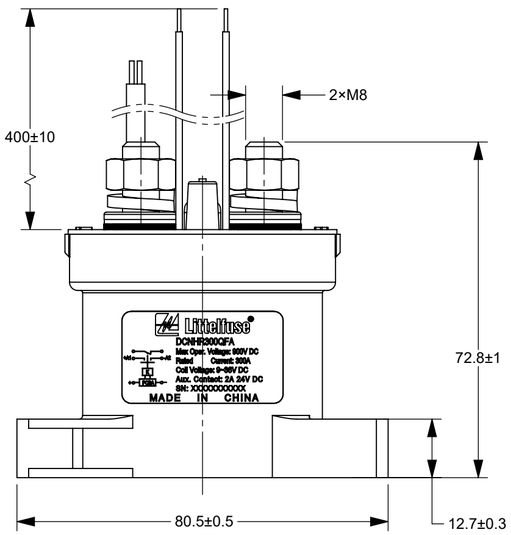
| REVISIONS | | | | |
|---|---|---|---|---|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| | A | GCF#524671 INITIAL RELEASE | JUL./28/2021 | D. ZHANG |

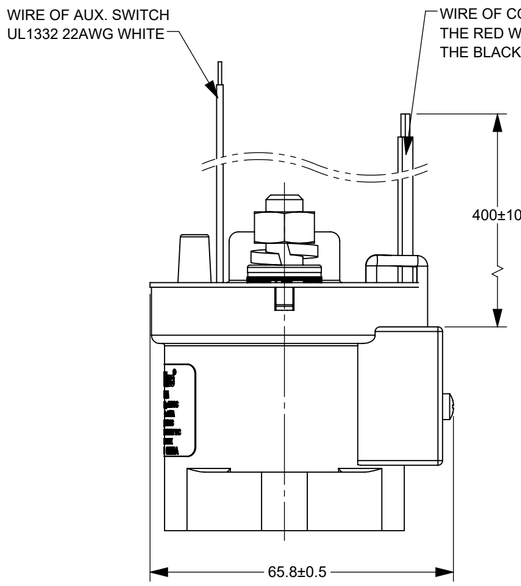


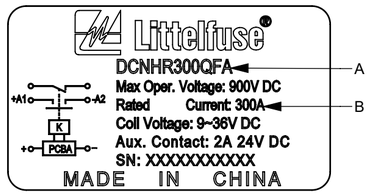



SCHEMATIC CIRCUIT DIAGRAM




SCALE 2:1

| TABLE 1 | | |
|---|---|---|
| MAX OPER. VOLTAGE | | 900V DC |
| RATED CONTACT CURRENT | DCNHR150QFA | 150A |
| | DCNHR200QFA | 200A |
| | DCNHR250QFA | 250A |
| | DCNHR300QFA | 300A |
| COIL VOLTAGE | | 9~36V DC |
| OPERATING VOLTAGE IN COLD STATE @ (23±5)°C | PICK-UP | 9V MAX |
| | DROP-OUT | 6V MIN |
| OPERATE TIME | | 25ms |
| CONTACT BOUNCE TIME | | 7ms |
| RELEASE TIME | | 12ms |
| MAIN CONTACT RESISTANCE(@ 20A) | | ≤2mΩ |
| AUXILIARY CONTACT RESISTANCE(@ 100mA) | | ≤500mΩ |
| INSULATION RESISTANCE @ 500 V (INITIAL) | | ≥100MΩ |
| DIELECTRIC STRENGTH (LEAKAGE CURRENT≤1 mA) | | 2200V AC, 1 MINUTE(1000V AC MINUTE, BETWEEN THE AUXILIARY CONTACTS) |
| ELECTRIC LIFE | DCNHR150QFA | 5000 CYCLES (150A @ 450V DC) |
| | DCNHR200QFA | 3500 CYCLES (200A @ 450V DC) |
| | DCNHR250QFA | 1500 CYCLES (250A @ 450V DC) |
| | DCNHR300QFA | 600 CYCLES (300A @ 450V DC) |
| MECHANICAL LIFE (NO LOAD, CYCLES) | | 200,000 |
| WORKING DUTY | | CONTINUOUS |

| TABLE 2 | | | | |
|---|---|---|---|---|
| NO. | PN | "A" | "B" | REMARK |
| 1 | DCNHR150QFA | DCNHR150QFA | Rated Current: 150A | |
| 2 | DCNHR200QFA | DCNHR200QFA | Rated Current: 200A | |
| 3 | DCNHR250QFA | DCNHR250QFA | Rated Current: 250A | |
| 4 | DCNHR300QFA | DCNHR300QFA | Rated Current: 300A | |

NOTES:
1. ALL DIMENSIONS ARE REFERENCE ONLY.
2. SEE TABLE 2 FOR NAME PLATE AND PNs
3. PRODUCT TYPE: SPST-NO, POLAR CONTACTOR WITH AUXILIARY CONTACT;
   AUXILIARY TYPE: SPST-NO.
4. MATERIALS AND FINISH:
4.1 HOUSING: THERMOPLASTIC PLASTICS.
4.2 CONTACTS: COPPER ALLOY.
4.3 CONTACT STUDS: COPPER ALLOY.
4.4 COIL TERMINALS: XLPE INSULATION WIRE(HALOGEN FREE) UL3321 22AWG.
5. MAIN CONTACT M8 STUD, TORQUE: 8~12N•m.
6. MOUNTING: M5 BOLT, RECOMMENDED TORQUE 1.8 N•m ~ 3.5 N•m.
7. CONTACTOR PARAMETERS ARE SHOWN IN TABLE 1.
8. THE COIL AND CONTACT OF THE CONTACTOR ARE POLAR, SO THE CONNECTION OF THE COIL AND CONTACT SHOULD BE OPERATED ACCORDING TO THE SCHEMATIC CIRCUIT DIAGRAM.

DIMENSIONS ARE SHOWN IN MILLIMETERS. DIMENSIONS AND TOLERANCES ARE DEFINED ACCORDING TO ANSI/ASME Y14.5-1994.

PER CHI-NPD20-0008 PROCEDURE

| | |
|---|---|
| ● | FIT/ FUNCTION CRITICAL CHARACTERISTICS |
| <S> | SAFETY/ COMPLIANCE CRITICAL CHARACTERISTICS SYMBOL |
| CPK | DENOTES CPK DIMENSIONS MINIMUM CPK VALUE |
| ST | DENOTES A CHARACTERISTIC THAT PROVIDES AN INDICATION OF PROCESS PERFORMANCE.PROCEDURE FOR MEASUREMENTAND TRACKINGTO BE DEFINED IN LITTELFUSE INSPECTION INSTRUCTIONS |
| CP | DENOTES CP DIMENSIONS. -MINIMUM CP VALUE MUST BE WITHIN THE DIMENSIONAL LIMITATIONS SHOWN ON DRAWING AND INITIALLY LOCATED TO ALLOW FOR MAXIMUM TOOL LIFE |

| | NAME | DATE |
|---|---|---|
| DRAWN | JY. SHI | JUL./15/2021 |
| CHECKED | J. LI | JUL./21/2021 |
| | - | - |
| | - | - |

FORM NO: CVP-PE40-0005 REV B

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

Littelfuse
Expertise Applied | Answers Delivered

TITLE: DCNHR 9-36V COIL POLAR CONTACTOR WITH AUXILIARY CONTACT

| SIZE | DWG. NO. | REV. |
|---|---|---|
| C | OUTLINE OL-DCNHR300QFA, CHARAT | A |

SCALE 1:1 SHEET 1 OF 1