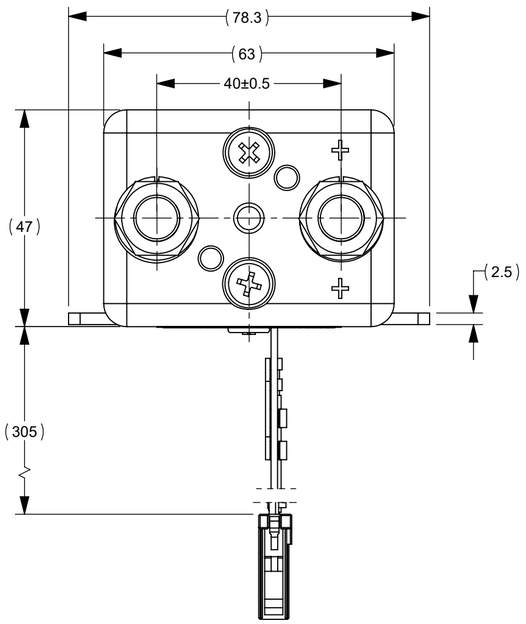
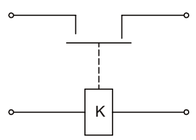
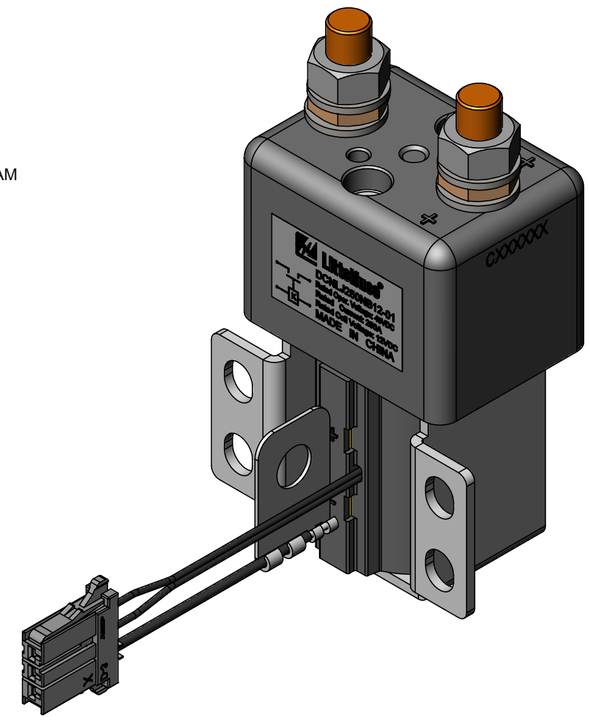
THIS DRAWING AND THE INFORMATION CONTAINED WITHIN IT ARE CONFIDENTIAL AND MAY NOT BE COPIED OR DISCLOSED WITHOUT THE WRITTEN PERMISSION OF LITTELFUSE.

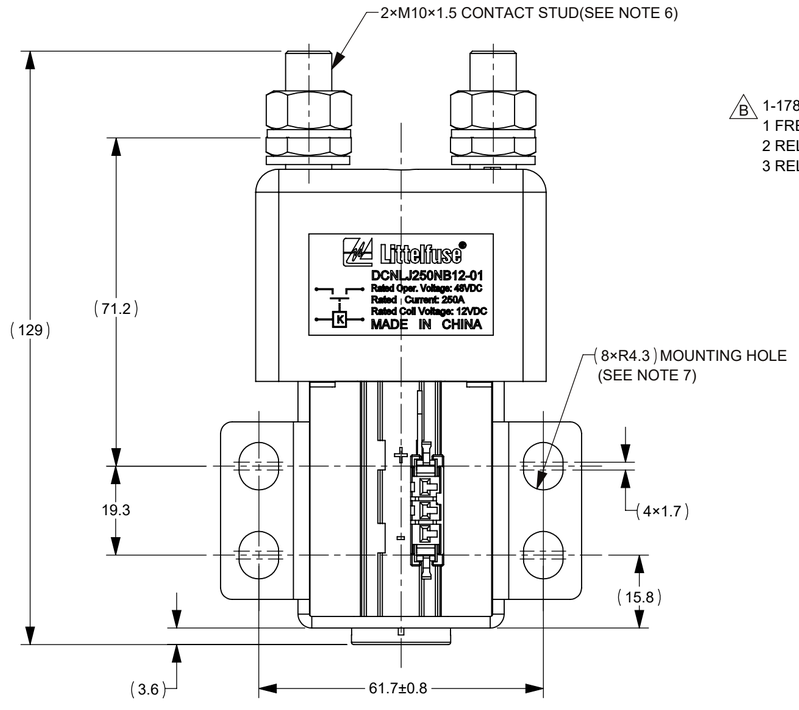
| REVISIONS | | | | |
|---|---|---|---|---|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| | A | GCF#524670 INITIAL RELEASE | NOV./10/2021 | D. ZHANG |
| D5 | B | ECR#525021 ADD CONNECTTOR INTERFACE DEFINITION | 4/8/2022 | D. ZHANG |



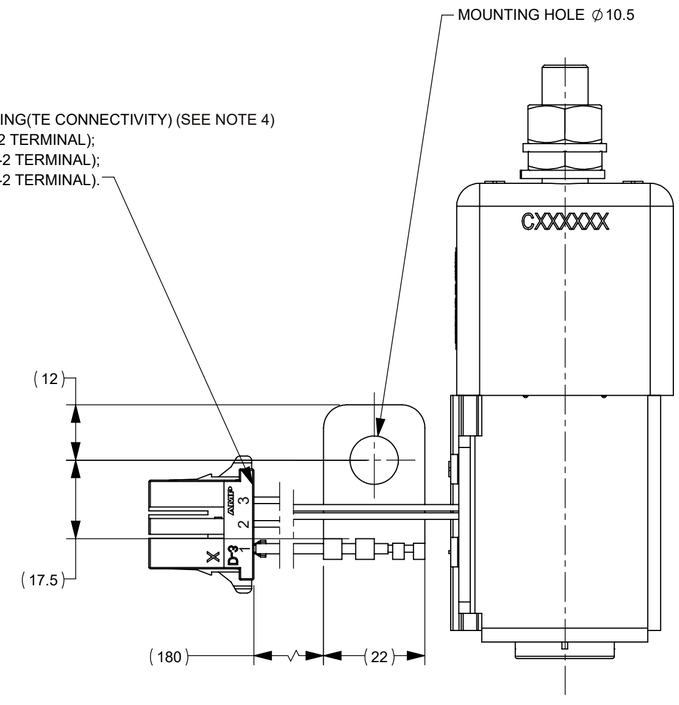

CIRCUIT SCHEMATIC DIAGRAM




B 1-178128-3 RECEPTACLE HOUSING(TE CONNECTIVITY) (SEE NOTE 4)
1 FREE WIRE(16AWG,1-175218-2 TERMINAL);
2 RELAY COIL(22AWG,1-175217-2 TERMINAL);
3 RELAY COIL(22AWG,1-175217-2 TERMINAL).




NOTES:
1. ALL SIZES ARE FOR REFERENCE ONLY.
2. MATERIALS AND FINISH:
2.1 BASE: PHENOLPLASTIC, UL94V-0.
2.2 CONTACTS: SILVER ALLOY.
2.3 STUD: COPPER ROD.
3. PRODUCT TECHNICAL PARAMETERS: SEE TABLE 1.
4. CONNECTORS MATCH: TE CONNECTIVITY: 1-178138-3 OR 1-178136-3 RECOMMENDED.
5. CONTACT ARRANGEMENT: SPST-NO.
6. CONNECTION STUD: M10 STUD, RECOMMENDED TORQUE: 9 N•m ~ 11 N•m.
7. MOUNTING: M8 BOLT, RECOMMENDED TORQUE: 12 N•m-15 N•m.

| TABLE 1: TECHNICAL PARAMETERS | | |
|---|---|---|
| ITEM | | PARAMETER |
| RATED COIL VOLTAGE | | 12V DC |
| HOLD POWER | | MAX 16W |
| OPERATING VOLTAGE IN COLD STATE AT (20±5)°C | PICK-UP(V DC) | MAX 8.4 |
| | RELEASE(V DC) | MIN 1.0 |
| PICK-UP TIME | | MAX 60ms |
| RELEASE TIME | | MAX 25ms |
| BOUNCE TIME | | MAX 5ms |
| RATED CONTACT VOLTAGE | | 48V DC |
| MAXIMUM CONTACT VOLTAGE | | 60V DC |
| RATED CONTACT CURRENT | | 250A |
| CONTACT VOLTAGE DROP | | ≤50mV@100 A |
| LIMIT BREAKING ABILITY | | 4Ie/5ms,1CYCLES |
| DIELECTRIC STRENGTH | | 1000V AC, 50Hz,1min, LEAKAGE CURRENT ≤1 mA |
| INSULATION RESISTANCE | | ≥50MΩ@500VDC |
| ELECTRIC LIFE | | 6000 CYCLES |
| MECHANICAL LIFE | | 300,000 CYCLES |
| WORKING DUTY | | CONTINUOUS |

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 | MJ. DAI | NOV./10/2021 |
| CHECKED | J. LI | NOV./15/2021 |
| | - | - |
| | - | - |

FORM NO: CVP-PE40-0005 REV B

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

Littelfuse
Expertise Applied | Answers Delivered

TITLE
DCNLJ 250A 48V 12V COIL CONTACTOR

| SIZE | DWG. NO. | REV. |
|---|---|---|
| C | OUTLINE OL-DCNLJ250NB12-01 | B |

SCALE 1:1 SHEET 1 OF 1