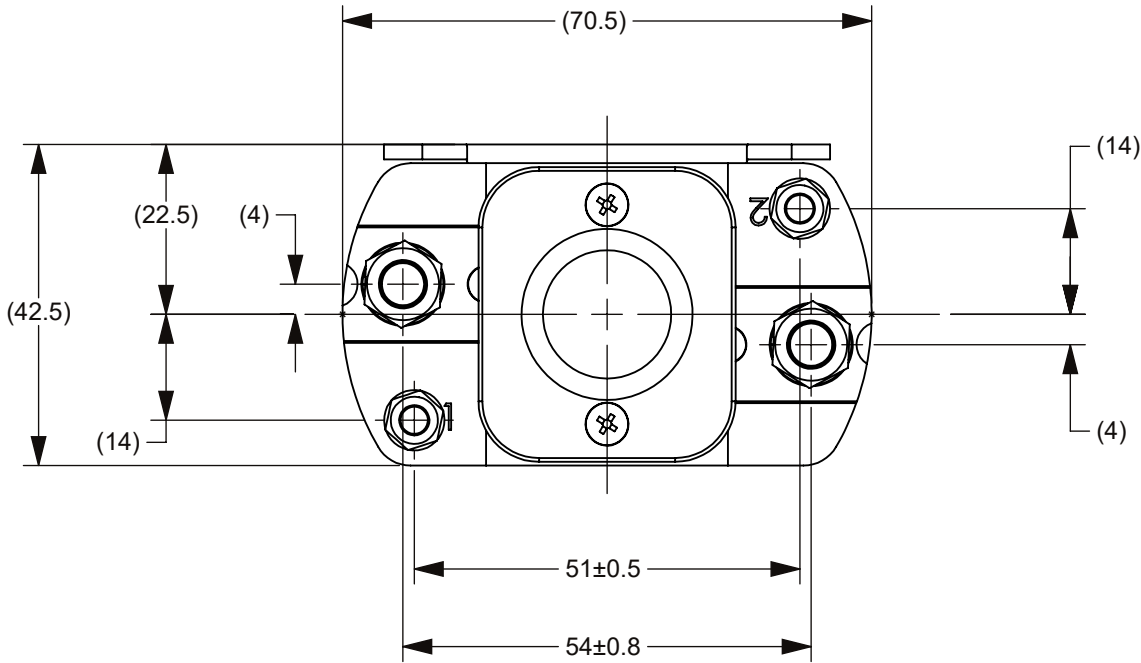


REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	GCF#524673 INITIAL RELEASE	OCT.27/2021	D. ZHANG



CIRCUIT SCHEMATIC DIAGRAM

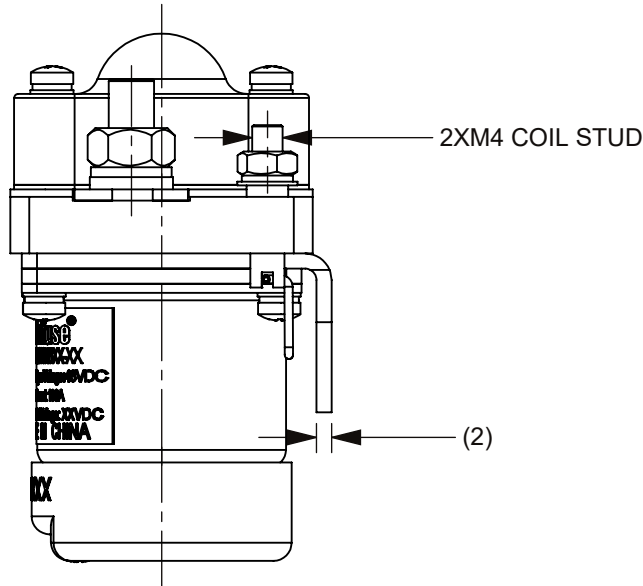
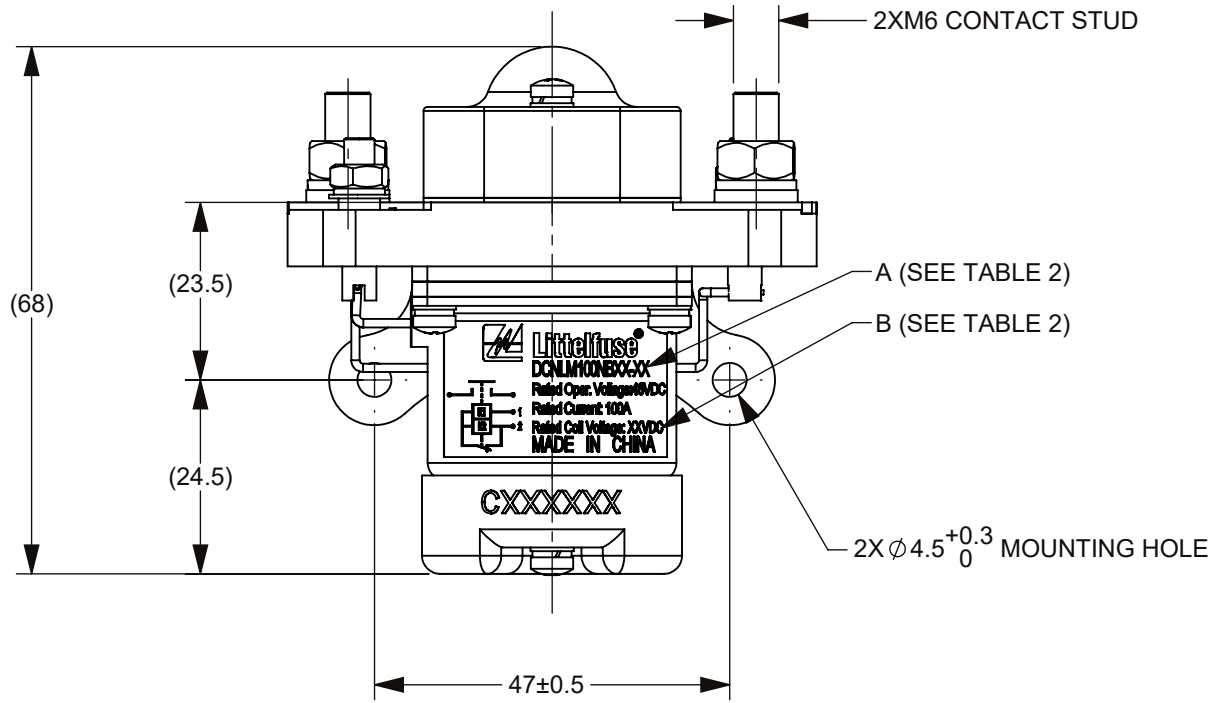
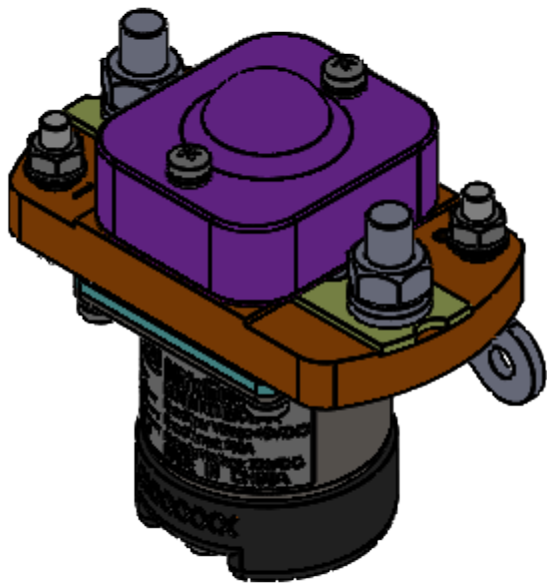
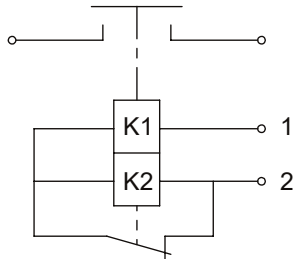
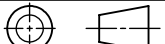


TABLE 1: TECHNICAL PARAMETERS				
ITEM		PARAMETER		
		DCNLM100NB12-01	DCNLM100NB24-01	DCNLM100NB48-01
RATED COIL VOLTAGE		12V DC	24V DC	48V DC
HOLD POWER	START POWER	MAX 150W		
	MAINTAIN POWER	MAX 9W		
OPERATING VOLTAGE IN COLD STATE AT (20±5)°C	PICKUP	MAX 8V DC	MAX 16V DC	MAX 26V DC
	RELEASE	MIN 1.2V DC	MIN 2.4V DC	MIN 5.4V DC
OPERATE TIME		MAX 30ms		
RELEASE TIME		MAX 30ms		
BOUNCE TIME		MAX 7ms		
RATED CONTACT VOLTAGE		48V DC		
MAXIMUM CONTACT VOLTAGE		60V DC		
RATED CONTACT CURRENT		100A		
CONTACT VOLTAGE DROP		≤80mV@100 A		
LIMIT BREAKING ABILITY		4le/5ms,1CYCLES		
DIELECTRIC STRENGTH		1000V AC, 50Hz,1min., LEAKAGE CURRENT ≤1 mA		
INSULATION RESISTANCE		≥50MΩ@500VDC		
ELECTRIC LIFE		10000 CYCLES		
MECHANICAL LIFE		100,000 CYCLES		
WORKING DUTY		CONTINUOUS		

NOTES:

- ALL SIZES ARE FOR REFERENCE ONLY.
- MATERIALS AND FINISH:
 - BASE: THERMOSETTING PLASTIC, UL94V-0.
 - CONTACTS: SILVER ALLOY.
 - COIL STUD: COPPER ALLY, SILVER PLATED.
- PRODUCT TECHNICAL PARAMETERS: SEE TABLE 1.
- PRODUCT AND NAMEPLATE(THE CHARACTER CONTENT AT "A" AND "B") CONFIGURATION SEE TABLE 2.
- CONTACT ARRANGEMENT: SPST-NO.
- CONNECTION STUD: M6 STUD, RECOMMENDED TORQUE 4 N•m ~ 6 N•m; M4 STUD, RECOMMENDED TORQUE 1.7 N•m ~ 2.5 N•m.
- MOUNTING: M4 BOLT, RECOMMENDED TORQUE 1.7 N•m ~ 2.5 N•m.

TABLE 2 P/N AND CONFIGURATION		
P/N	"A"	"B"
DCNLM100NB12-01	DCNLM100NB12-01	Rated Coil Voltage: 12VDC
DCNLM100NB24-01	DCNLM100NB24-01	Rated Coil Voltage: 24VDC
DCNLM100NB48-01	DCNLM100NB48-01	Rated Coil Voltage: 48VDC
DIMENSIONS ARE SHOWN IN MILLIMETERS. DIMENSIONS AND TOLERANCES ARE DEFINED ACCORDING TO ANSI/ASME Y14.5-1994.		
PER CHNPD20-008 PROCEDURE		FTI/ FUNCTION CRITICAL CHARACTERISTICS
		SAFETY/ COMPLIANCE CRITICAL CHARACTERISTICS SYMBOL
		DENOTES CPK DIMENSIONS MINIMUM CPK VALUE
		DENOTES A CHARACTERISTIC THAT PROVIDES AN INDICATION OF PROCESS PERFORMANCE PROCEDURE FOR MEASUREMENTAND TRACKINGTO BE DEFINED IN LITTELFUSE INSPECTION INSTRUCTIONS
		DENOTES CP DIMENSIONS. -MINIMUM CP VALUE MUST BE WITHIN THE DIMENSIONAL LIMITATIONS SHOWN ON DRAWING AND INITIALLY LOCATED TO ALLOW FOR MAXIMUM TOOL LIFE
		
DRAWN V. ZHANG OCT./27/2021		Expertise Applied Answers Delivered
CHECKED J. LI OCT./30/2021		
FORM NO.: CVP-PE40-0005 REV B		TITLE DCNL 100A 48V COIL CONTACTOR
THIRD ANGLE PROJECTION		
		SIZE C DWG. NO. OL-DCNLM100NB.CHT2 REV. A
DO NOT SCALE DRAWING		SCALE 1:1 SHEET 1 OF 1