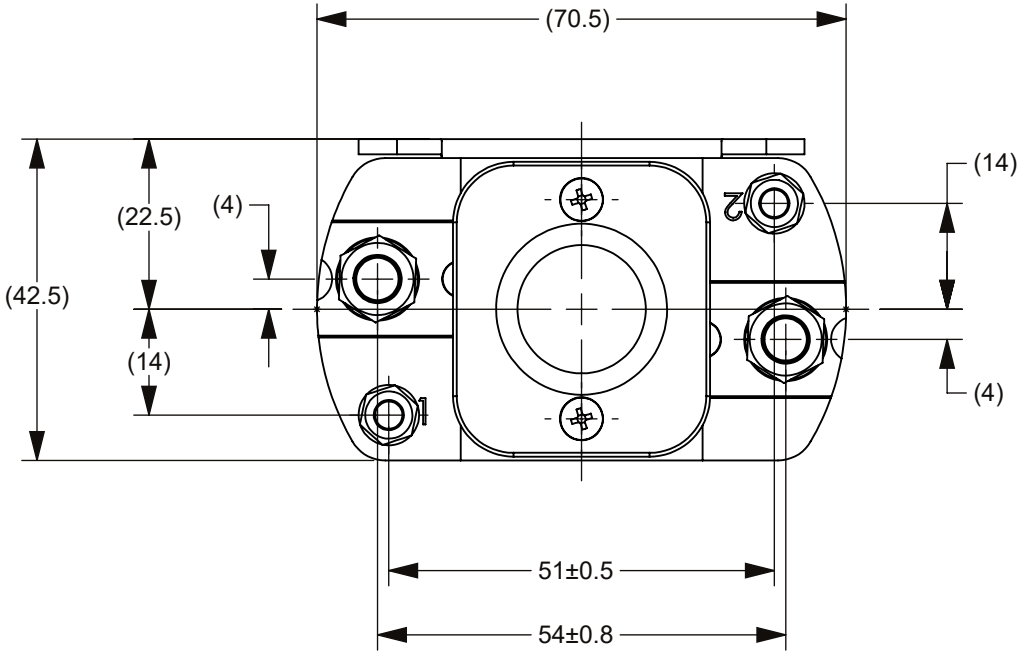


REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	GCF#524853 INITIAL RELEASE	NOV./10/2021	D. ZHANG



CIRCUIT SCHEMATIC DIAGRAM

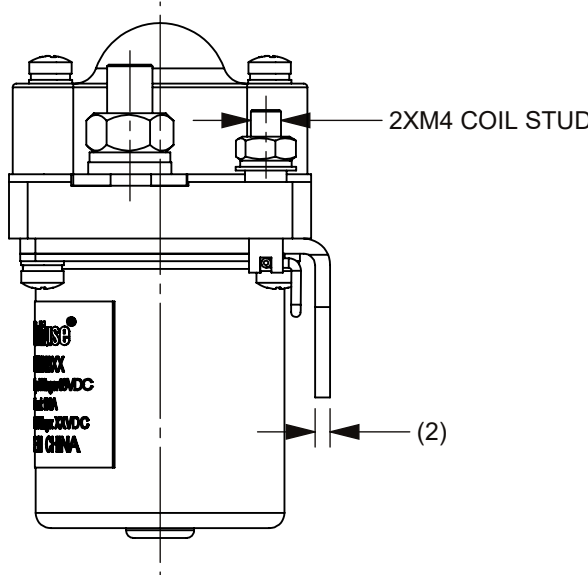
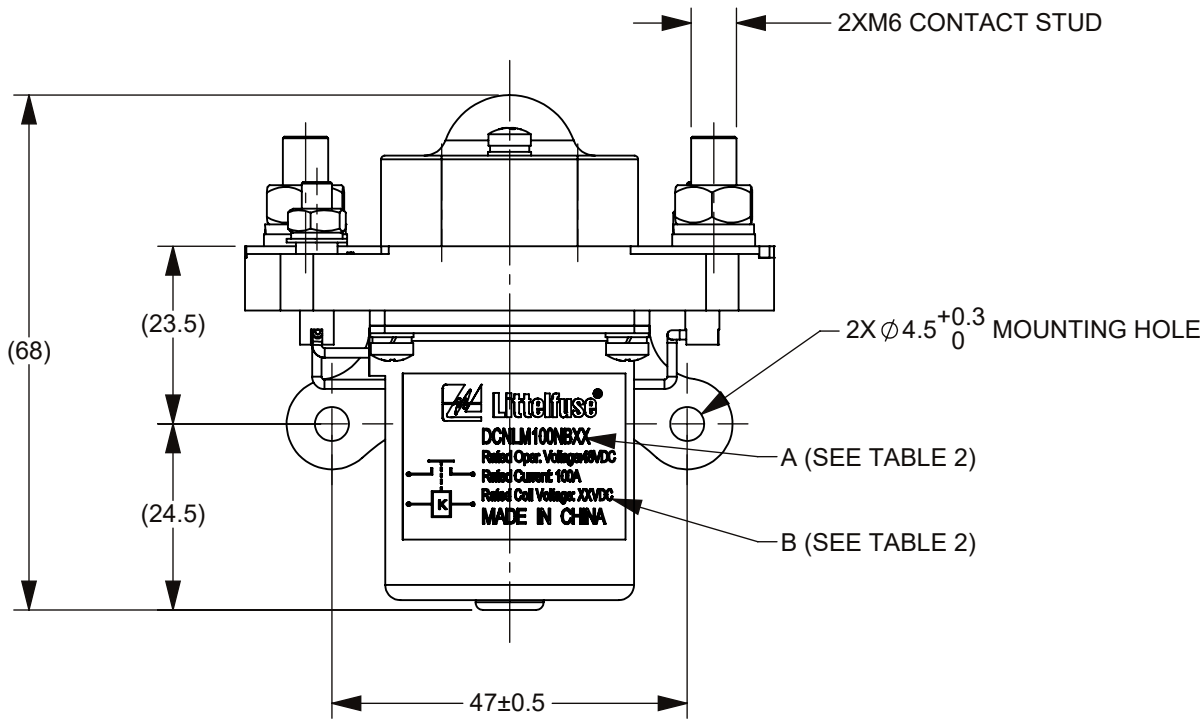
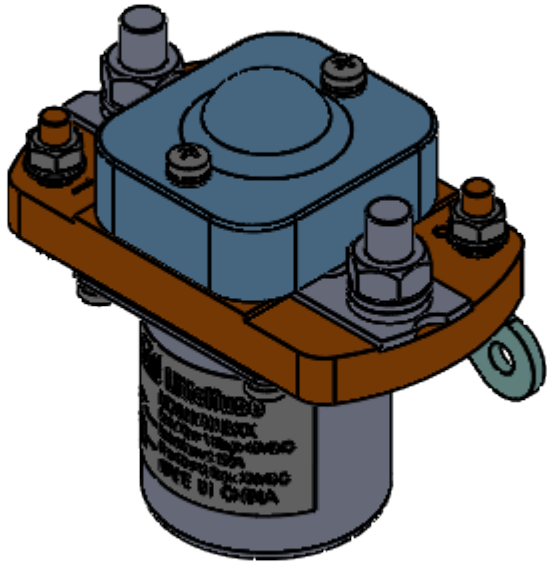
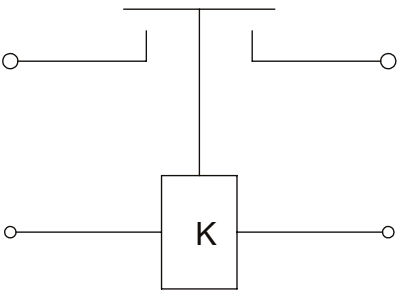


TABLE 1: TECHNICAL PARAMETERS				
ITEM		PARAMETER		
		DCNLM100NB12	DCNLM100NB24	DCNLM100NB48
RATED COIL VOLTAGE		12V DC	24V DC	48V DC
HOLD POWER		MAX 6W		
OPERATING VOLTAGE IN COLD STATE AT (20±5)°C	PICKUP	MAX 8.4V DC	MAX 16.8V DC	MAX 33.6V DC
	RELEASE	MIN 1V DC	MIN 1.9V DC	MIN 3.8V DC
OPERATE TIME		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		DCNLM100NB12		Rated Coil Voltage: 12VDC	
DCNLM100NB24		DCNLM100NB24		Rated Coil Voltage: 24VDC	
DCNLM100NB48		DCNLM100NB48		Rated Coil Voltage: 48VDC	
DIMENSIONS ARE SHOWN IN MILLIMETERS. DIMENSIONS AND TOLERANCES ARE DEFINED ACCORDING TO ANSI/ASME Y14.5-1994.					
PER CHN-PD20-008 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			
DRAWN		NAME	DATE	 Littelfuse® Expertise Applied Answers Delivered	
V. ZHANG		NOV./10/2021			
CHECKED		J. LI	NOV./30/2021		
		-	-	TITLE DCNLM 100A 48V COIL CONTACTOR	
		-	-		
		-	-		
FORM NO.: CVP-PE40-0005 REV B				SIZE C	
THIRD ANGLE PROJECTION					
				DWG. NO. OUTLINE	REV. A
DO NOT SCALE DRAWING		SCALE 1:1		SHEET 1 OF 1	