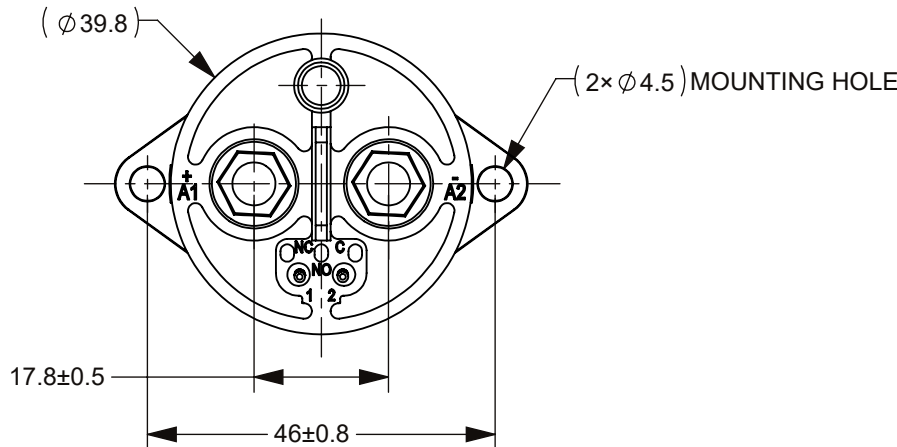


REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	GCF#524667 INITIAL RELEASE	AUG./25/2021	D. ZHANG
B8	B	ECR#525202 DELETE: "AUXILIARY CONTACT RESISTANCE" IN TABLE 1	5/10/2022	D. ZHANG



CIRCUIT SCHEMATIC DIAGRAM

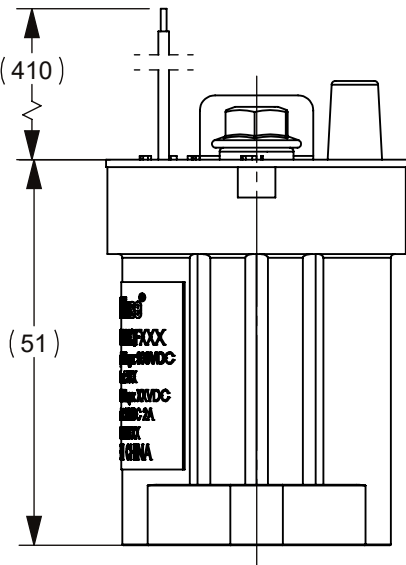
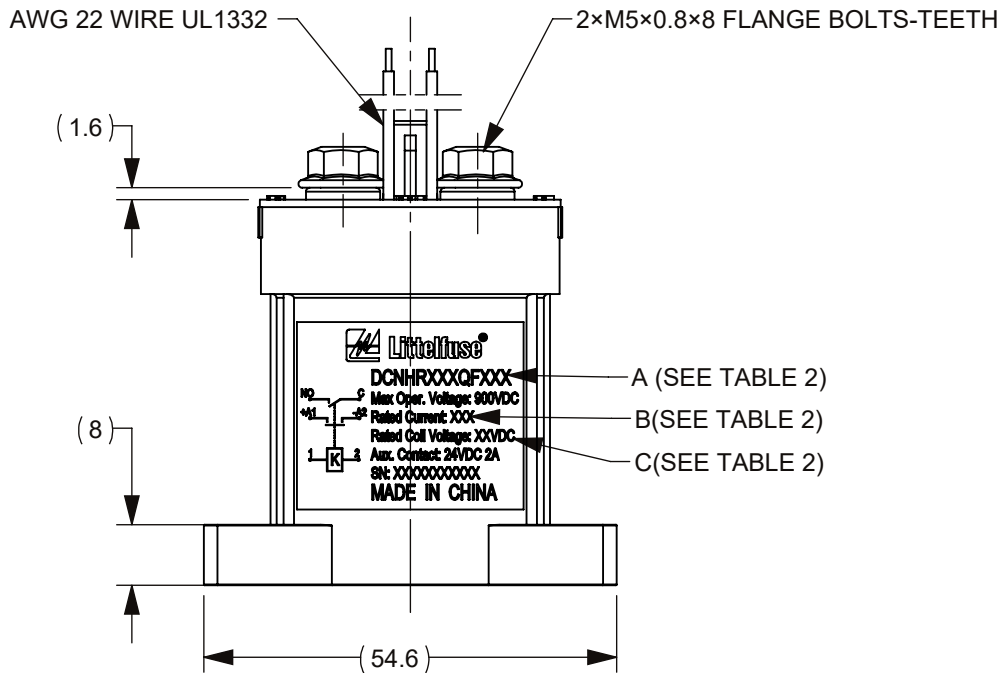
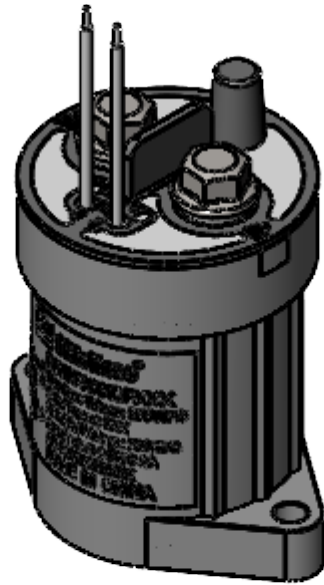
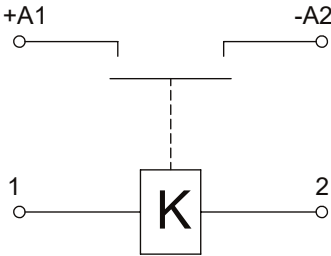


TABLE 1: TECHNICAL PARAMETERS							
ITEM		PARAMETER					
		DCNHR100PF12	DCNHR100PF24	DCNHR100PF48	DCNH50PF12	DCNHR50PF24	DCNHR50PF48
RATED COIL VOLTAGE		12V DC	24V DC	48V DC	12V DC	24V DC	48V DC
OPERATING VOLTAGE IN COLD STATE AT (20±5) °C	PICK-UP (V DC)	MAX 8.4	MAX 16.8	MAX 33.6	MAX 8.4	MAX 16.8	MAX 33.6
	RELEASE(V DC)	MIN 1	MIN 2	MIN 4	MIN 1	MIN 2	MIN 4
PICK-UP TIME		MAX 25ms					
RELEASE TIME		MAX 12ms					
BOUNCE TIME		MAX 7ms					
MAIN CONTACT RESISTANCE (@ 20A)		MAX 2mΩ					
DIELECTRIC STRENGTH (LEAKAGE CURRENT ≤1 mA)		2200V AC, 50Hz,1min.					
INSULATION RESISTANCE		≥100MΩ@500VDC					
MAXIMUM CONTACT VOLTAGE		900V DC					
RATED CONTACT CURRENT		100A	100A	100A	50A	50A	50A
LIMIT BREAKING ABILITY		4Ie/5ms,1CYCLES					
ELECTRIC LIFE		3000 CYCLES(100A@450V DC)			6000 CYCLES(100A@450V DC)		
MECHANICAL LIFE		200,000 CYCLES					
WORKING DUTY		CONTINUOUS					

TABLE 2			
PRODUCT NUMBER	"A"	"B"	"C"
DCNHR100PF12	DCNHR100PF12	100A	12V DC
DCNHR100PF24	DCNHR100PF24	100A	24V DC
DCNHR100PF48	DCNHR100PF48	100A	48V DC
DCNHR50PF12	DCNHR50PF12	50A	12V DC
DCNHR50PF24	DCNHR50PF24	50A	24V DC
DCNHR50PF48	DCNHR50PF48	50A	48V DC

- NOTES:
- ALL SIZES ARE FOR REFERENCE ONLY.
 - MATERIALS AND FINISHED:
2.1 HOUSING: THERMOSETTING PLASTIC, UL94V-0.
2.2 CONTACTS: SILVER ALLOY.
 - PRODUCT PN AND NAMEPLATE CONFIGURATION RELATION SEE TABLE 2.
 - PRODUCT TECHNICAL PARAMETERS: SEE TABLE 1.
 - MAIN CONTACT ARRANGEMENT: SPST-NO.
 - CONNECTION BOLT: M5 BOLT, RECOMMENDED TORQUE 3 N•m ~ 4 N•m.
 - MOUNTING: M4 BOLT, RECOMMENDED TORQUE 1.7 N•m ~ 2.5 N•m.

DIMENSIONS ARE SHOWN IN MILLIMETERS. DIMENSIONS AND TOLERANCES ARE DEFINED ACCORDING TO ANSI/ASME Y14.5-1994.				
PER CHNPD20-008 PROCEDURE		FITI/ 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 M.J. DAI		DATE AUG./25/2021		
CHECKED J. LI		AUG./30/2021		
-		-		
-		-		
FORM NO: CVP-PE40-0005 REV B		THIRD ANGLE PROJECTION		
		SIZE C		
DO NOT SCALE DRAWING		SCALE 1:1		
NAME DATE		DATE		
M.J. DAI AUG./25/2021		AUG./25/2021		
J. LI AUG./30/2021		AUG./30/2021		
-		-		
-		-		
TITLE DCNHR 100A HIGH VOLTAGE CONTACTOR WITH POLARITY		REV. B		
DWG. NO. OUTLINE		OL-DCNHR100PF CHT		
SCALE 1:1		SHEET 1 OF 1		