

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#524667 INITIAL RELEASE	AUG./25/2021	D. ZHANG

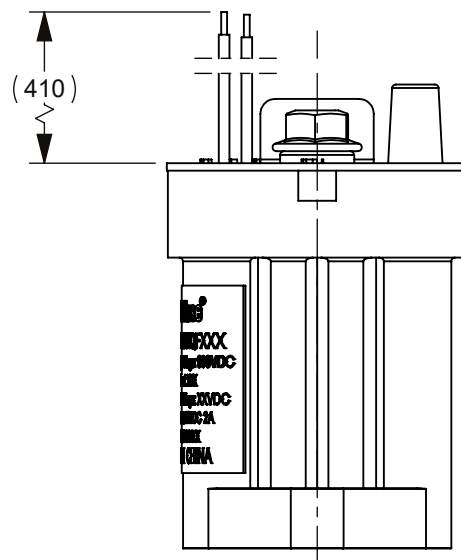
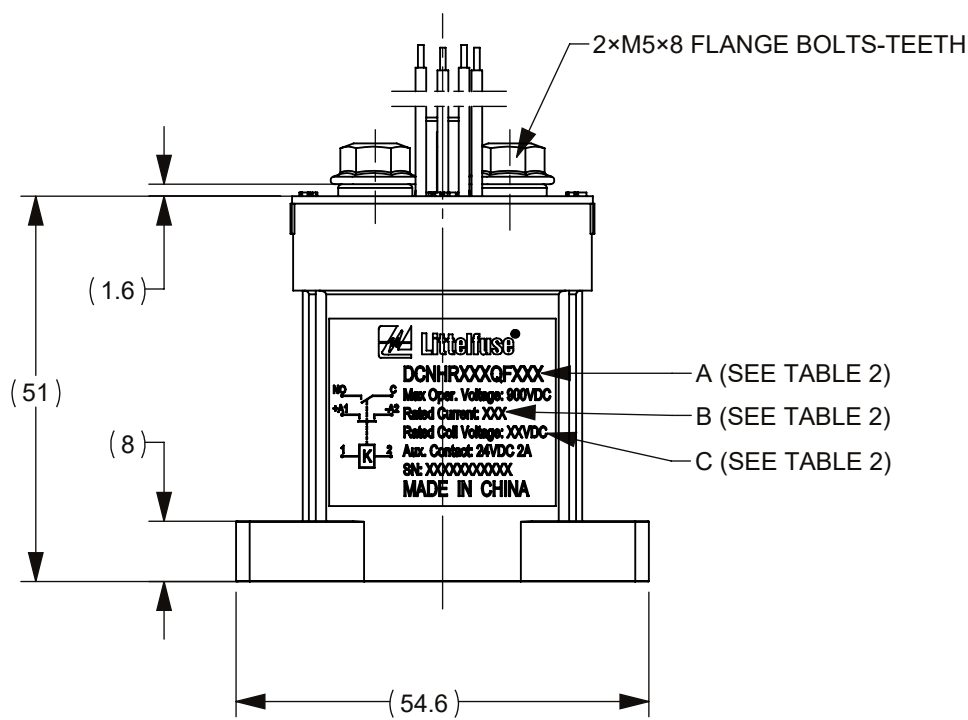
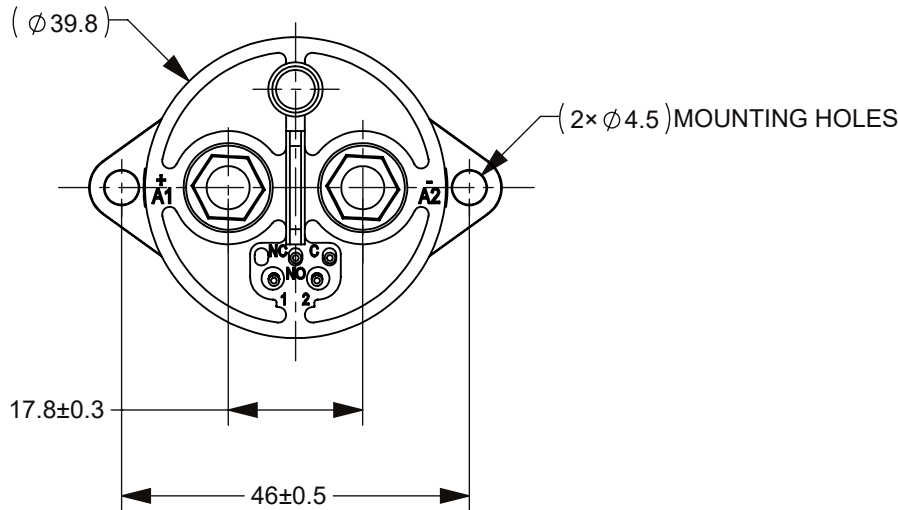
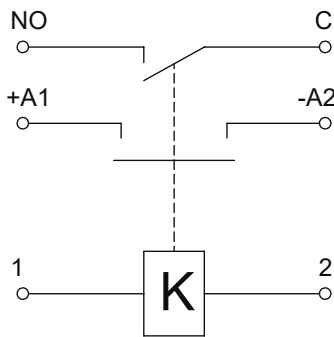
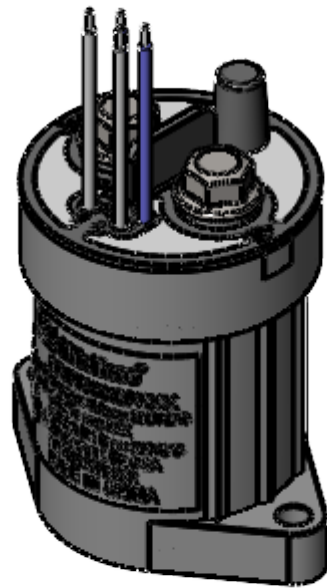


TABLE 1: TECHNICAL PARAMETERS

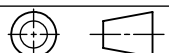
ITEM		PARAMETER					
		DCNHR100QF12	DCNHR100QF24	DCNHR100QF48	DCNHR50QF12	DCNHR50QF24	DCNHR50QF48
RATED COIL VOLTAGE		12V DC	24V DC	48V DC	12V DC	24V DC	48V DC
OPERATING VOLTAGE IN COLD STATE AT (20±5) C	PICKUP (V DC)	MAX 8.4	MAX 16.8	MAX 33.6	MAX 8.4	MAX 16.8	MAX 33.6
	RELEASE(V DC)	MIN 1	MIN 2	MIN 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					
AUX. CONTACT RESISTANCE (@ 100mA)		MAX 500mΩ					
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
AUX. CONTACT RATED LOAD		24V DC, 2A					
LIMIT BREAKING ABILITY		4le/5ms,1CYCLES					
ELECTRIC LIFE		3000 CYCLES(100A@450V DC)			6000 CYCLES(50A@450V DC)		
MECHANICAL LIFE		200,000 CYCLES					
WORKING DUTY		CONTINUOUS					

TABLE 2

PRODUCT NUMBER	"A"	"B"	"C"
DCNHR100QF12	DCNHR100QF12	100A	12V DC
DCNHR100QF24	DCNHR100QF24	100A	24V DC
DCNHR100QF48	DCNHR100QF48	100A	48V DC
DCNHR50QF12	DCNHR50QF12	50A	12V DC
DCNHR50QF24	DCNHR50QF24	50A	24V DC
DCNHR50QF48	DCNHR50QF48	50A	48V DC

NOTES:

1. ALL SIZES ARE FOR REFERENCE ONLY.
2. MATERIALS AND FINISHING:
 - 2.1 HOUSING: THERMOSETTING PLASTIC, UL94V-0.
 - 2.2 CONTACTS: SILVER ALLOY.
3. PRODUCT PN AND NAMEPLATE CONFIGURATION RELATION SEE TABLE 2
4. PRODUCT TECHNICAL PARAMETERS: SEE TABLE 1.
5. MAIN CONTACT ARRANGEMENT: SPST-NO.
6. AUXILIARY CONTACT ARRANGEMENT: SPST-NO.
7. CONNECTION BOLT: M5 BOLT, RECOMMENDED TORQUE 3 N•m ~ 4 N•m.
8. 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 CH-ANPD20-0008 PROCEDURE	 FIT/ FUNCTION CRITICAL CHARACTERISTICS															
	 SAFETY/ COMPLIANCE CRITICAL CHARACTERISTICS SYMBOL															
	CPK DENOTES CPK DIMENSIONS MINIMUM CPK VALUE															
	 DENOTES A CHARACTERISTIC THAT PROVIDES AN INDICATION OF PROCESS PERFORMANCE PROCEDURE FOR DOCUMENTATION TRACKING TO 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															
<table><tr><th></th><th>NAME</th><th>DATE</th></tr><tr><td>DRAWN</td><td>MJ DAI</td><td>AUG.25/2021</td></tr><tr><td>CHECKED</td><td>J. LI</td><td>AUG./30/2021</td></tr><tr><td></td><td>-</td><td>-</td></tr><tr><td></td><td>-</td><td>-</td></tr></table>			NAME	DATE	DRAWN	MJ DAI	AUG.25/2021	CHECKED	J. LI	AUG./30/2021		-	-		-	-
	NAME	DATE														
DRAWN	MJ DAI	AUG.25/2021														
CHECKED	J. LI	AUG./30/2021														
	-	-														
	-	-														
Littelfuse® Expertise Applied Answers Delivered																
TITLE DCNHR 100A HIGH VOLTAGE CONTACTOR WITH POLARITY AND AUXILIARY CONTACT																
FORM NO: CVP-PE40-0005 REV B THIRD ANGLE PROJECTION 	SIZE C DWG. NO. OUTLINE OL-DCNHR100QF CHART REV. A															
DO NOT SCALE DRAWING	SCALE 1:1 SHEET 1 OF 1															