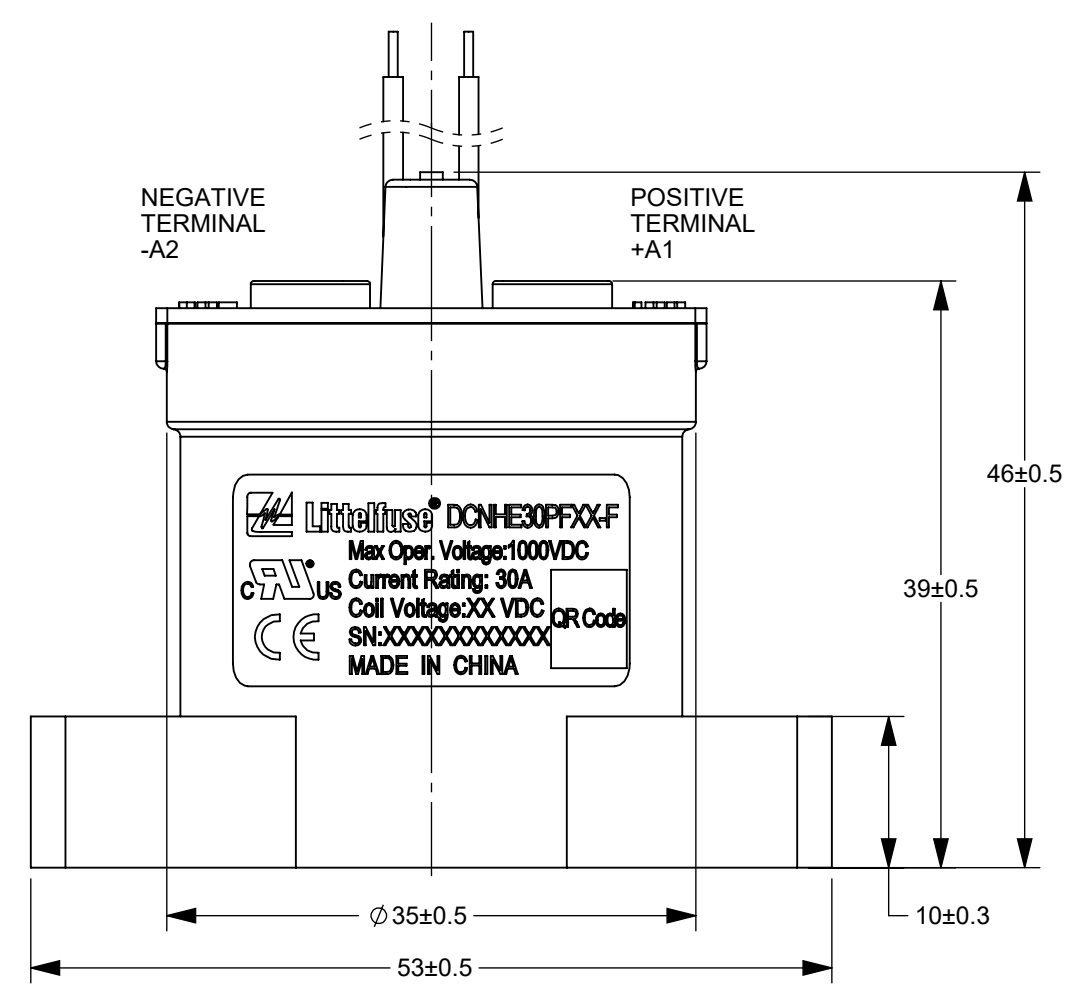
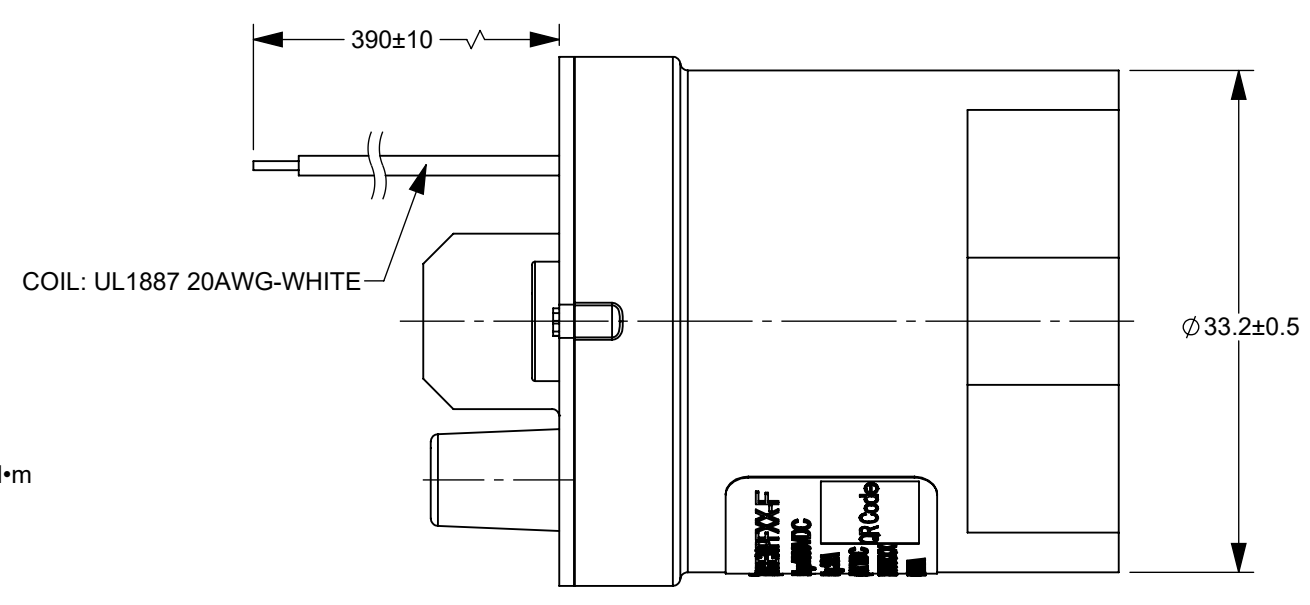
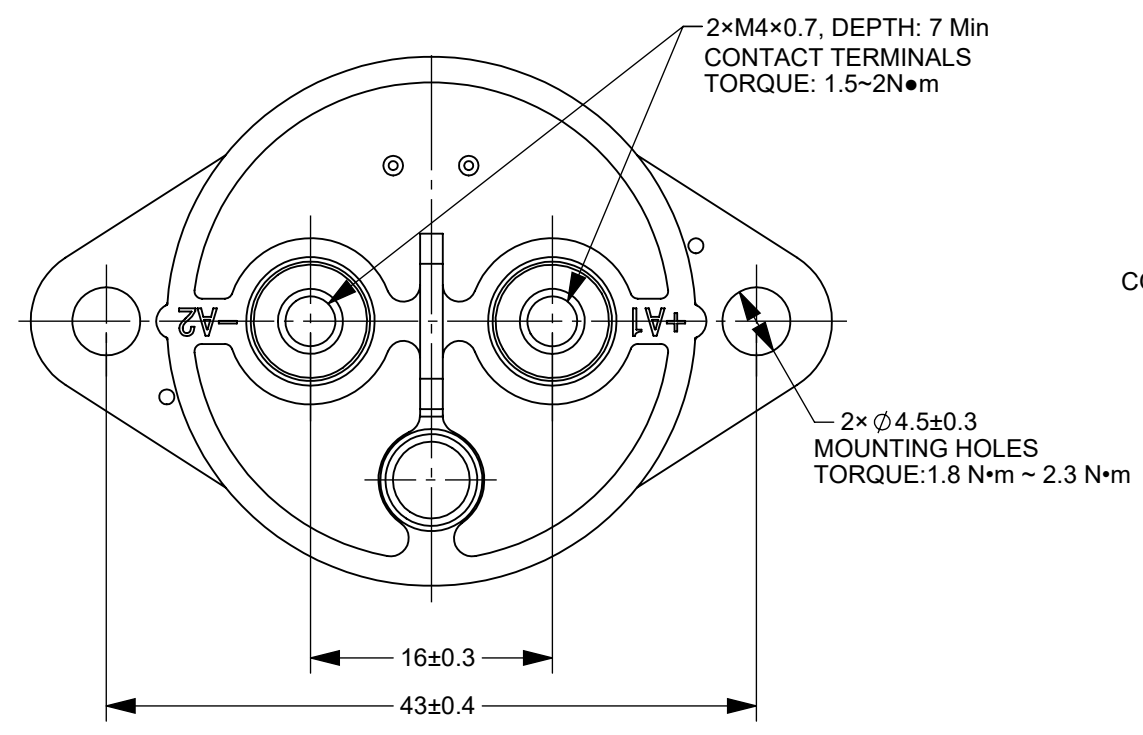
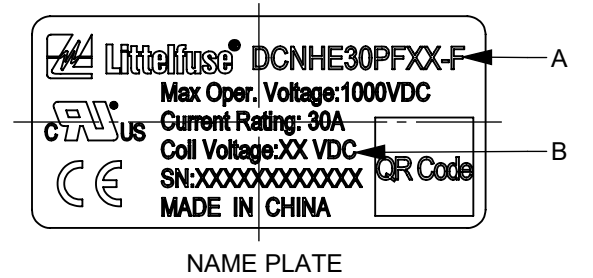
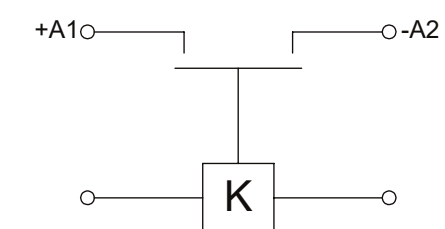


REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	PCO-500000301333 INITIAL RELEASE	JULY/18/2025	D. ZHANG



CIRCUIT SCHEMATIC DIAGRAM



● TABLE 2 (ALLOCATION )

NO.	PN	"A"	"B"	CERTIFICATIONS	REMARK
1	DCNHE30PF12-F	DCNHE30PF12-F	Coil Voltage: 12V DC	UL,CE	
2	DCNHE30PF24-F	DCNHE30PF24-F	Coil Voltage: 24V DC	UL,CE	
3	DCNHE30PF48-F	DCNHE30PF48-F	Coil Voltage: 48V DC	UL,CE	

- NOTES:
- ALL DIMENSIONS ARE REFERENCE ONLY.
  - CONTACTOR PARAMETERS ARE SHOWN IN TABLE 1, CERTIFICATIONS INFORMATION ARE SHOWN IN TABLE 2.
  - SEE TABLE 2 FOR NAME PLATE AND PNs.
  - PRODUCT TYPE: SPST-NO, POLAR CONTACTOR.
  - MATERIALS AND FINISH:
    - 5.1 HOUSING: THERMOPLASTIC PLASTICS.
    - 5.2 CONTACTS: SILVER-PLATED COPPER.
    - 5.3 CONTACT STUDS: SILVER-PLATED COPPER.
  - WEIGHT: 115G.
  - RoHS COMPLIANT.
  - THE CONTACTS OF THE CONTACTOR ARE POLAR, SO THE CONNECTION OF THE CONTACTOR SHOULD BE OPERATED ACCORDING TO THE SCHEMATIC CIRCUIT DIAGRAM.

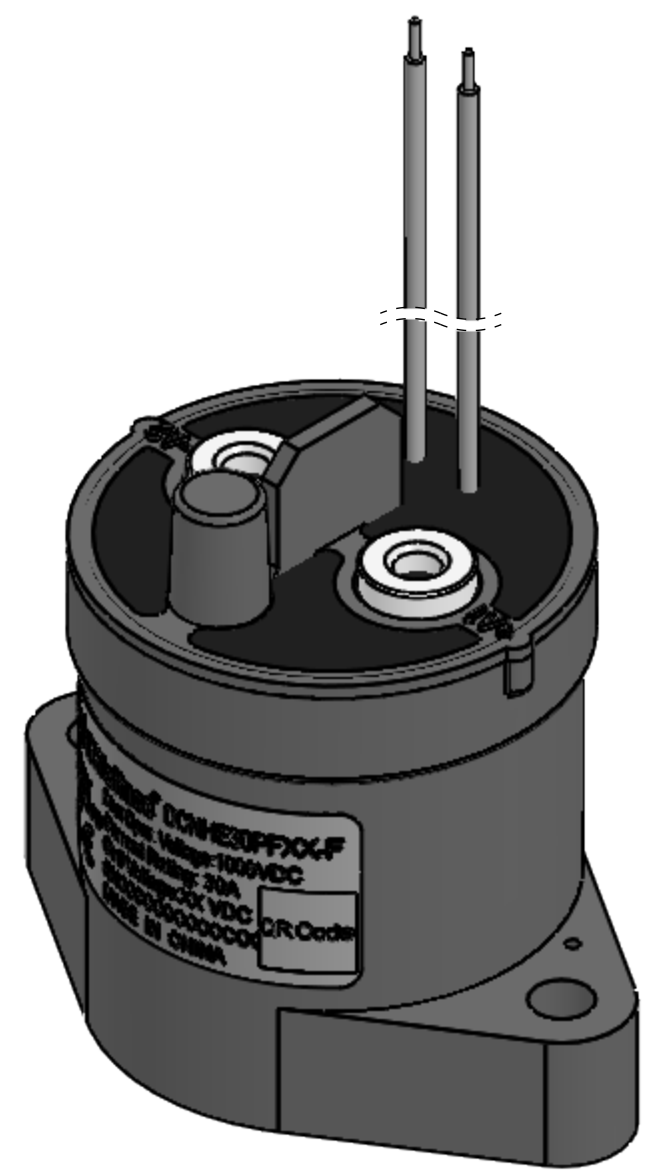


TABLE 1

PN		DCNHE30PF12-F	DCNHE30PF24-F	DCNHE30PF48-F
MAX OPER. VOLTAGE		1000V DC		
RATED CONTACT CURRENT		30A		
COIL RATED VOLTAGE		12V DC	24V DC	48V DC
OPERATING VOLTAGE IN COLD STATE@25°C	OPERATE	9V DC MAX	18V DC MAX	36V DC MAX
	RELEASE	0.6~3.6V DC	1.2~7.2V DC	2.4~14.4V DC
HOLDING POWER@25°C		5~6W		
VOLTAGE DROP		≤60mV@30A		
INSULATION RESISTANCE@500V DC (INITIAL)		≥100MΩ		
DIELECTRIC STRENGTH (LEAKAGE CURRENT≤1 mA)	BETWEEN CONTACTS	4,000V AC, 1 MINUTE		
	BETWEEN CONTACTS AND COIL	2,200V AC, 1 MINUTE		
Max. BREAKING CURRENT		300A@320V DC, 1CYCLE		
ELECTRIC LIFE (RESISTIVE LOAD)		10,000 CYCLES (30A@450V DC)		
		600 CYCLES (30A@750V DC)		
		100 CYCLES (9A@1000V DC)		
MECHANICAL LIFE(NO LOAD, CYCLES)		300,000		

DIMENSIONS ARE SHOWN IN MILLIMETERS. DIMENSIONS AND TOLERANCES ARE DEFINED ACCORDING TO ANSIA/SME Y14.5-1994.

PER CHNFPD20-008 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 MEASUREMENT AND 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

NAME	DATE
DRAWN JY. SHI	MAY.17/2025
CHECKED V. ZHANG	MAY.17/2025

FORM NO. CVP-PE40-0005 REV B

THIRD ANGLE PROJECTION

**Littelfuse**  
Expertise Applied | Answers Delivered

TITLE: DCNHE 30A POLAR CONTACTOR

SIZE: C DWG. NO. OUTLINE OL-DCNHE30PFXX-F, CHT REV. X

DO NOT SCALE DRAWING SCALE 2:1 SHEET 1 OF 1