3 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** GCF#524714 INITIAL RELEASE NOV./25/2021 D. ZHANG - 400±10 -√-(4×R2.25) Ø34.5±0.5 - 14±0.2 **→** 42±0.5 43±0.5 CIRCUIT SCHEMATIC DIAGRAM GB 9074.13 M4×8 **HEXAGON BOLT ASSEMBLY** 48.5±1 **DCNHR40PF12-01** 41.1±0.8 DCNHR40PF12-01~ Max Oper. Voltage: 900V DC ₩ Max Oper. Voltage: 900V DC Rated | Current: 40A Rated Current: 40A K -02 Rated Coil Voltage: 12V DC — κ −o₂ Rated Coil Voltage: 12V DC-SN: XXXXXXXXXXXXXX SN: XXXXXXXXXXX MADE IN CHINA MADE IN CHINA С NAME PLATE - 51±0.5 └─ 7±0.2 TABLE 1 TABLE 2 (CONFIGURATION) DCNHR40PF12-01 | DCNHR40PF24-01 | DCNHR40PF48-01 "A" "C" REMARK PNDCNHR30PF12-01 DCNHR30PF24-01 DCNHR30PF48-01 DCNHR20PF12-01 DCNHR20PF24-01 DCNHR20PF48-01 DCNHR40PF12-01 DCNHR40PF12-01 Coil Voltage: 12V DC MAX OPER. VOLTAGE 900V DC DCNHR40PF24-01 DCNHR40PF24-01 Rated Current: 40A Coil Voltage: 24V DC DCNHR40PF SERIES: 40A RATED CONTACT CURRENT DCNHR30PF SERIES: 30A В DCNHR40PF48-01 | DCNHR40PF48-01 Coil Voltage: 48V DC DCNHR20PF SERIES: 20A Coil Voltage: 12V DC DCNHR30PF12-01 DCNHR30PF12-01 COIL RATED VOLTAGE 12V DC 24V DC 48V DC Coil Voltage: 24V DC Rated Current: 30A DCNHR30PF24-01 DCNHR30PF24-01 9V DC MAX 18V DC MAX 36V DC MAX OPERATE OPERATING VOLTAGE IN COLD STATE @ (23±5)°C DCNHR30PF48-01 DCNHR30PF48-01 Coil Voltage: 48V DC RELEASE 1V DC MIN 2V DC MIN 4V DC MIN DIMENSIONS ARE SHOWN IN MILLIMETERS. DIMENSIONS AND TOLERANCES ARE DEFINED ACCORDING TO ANSI/ASME Y14.5-1994. OPERATE TIME 25ms MAX DCNHR20PF12-01 Coil Voltage: 12V DC DCNHR20PF12-01 FIT/ FUNCTION CRITICAL CHARACTERISTICS CONTACT BOUNCE TIME 7ms MAX Coil Voltage: 24V DC DCNHR20PF24-01 8 DCNHR20PF24-01 Rated Current: 20A SAFETY/ COMPLIANCE CRITICAL CHARACTERISTICS SYMBOL RELEASE TIME 12ms MAX Coil Voltage: 48V DC DCNHR20PF48-01 DCNHR20PF48-01 CPK DENOTES CPK DIMENSIONS MINIMUM CPK VALUE MAIN CONTACT RESISTANCE(@ 20A) ≤2mΩ DENOTES A CHARACTERISTIC THAT PROVIDES AN INDICATION OF PROCESS PERFORMANCE.PROCEDURE FOR MEASUREMENTAND TRACKINGTO BE DEFINED IN LITTELFUSE INSPECTION INSTRUCTIONS INSULATION RESISTANCE @ 500 V (INITIAL) ≥100MΩ NOTES: DENOTES CP DIMENSIONS, -MINIMUM CP VALUE MUST BE WITHIN THE DIMENSIONAL LIMITATIONS SHOWN ON DRAWING AND INITIALLY LOCATED DIELECTRIC STRENGTH (LEAKAGE CURRENT≤1 mA) 1. ALL DIMENSIONS ARE REFERENCE ONLY. 2200V AC, 1 MINUTE TO ALLOW FOR MAXIMUM TOOL LIFE 2. SEE TABLE 2 FOR NAME PLATE AND PNs 3. PRODUCT TYPE: SPST-NO, POLAR CONTACTOR. NAME DATE DCNHR40PF SERIES 6000 CYCLES (40A @ 450V DC) 4. MATERIALS AND FINISH: RAWN JY. SHI NOV./5/202 NOV./15/202 4.1 HOUSING: THERMOPLASTIC PLASTICS. HECKED J. LI ELECTRIC LIFE DCNHR30PF SERIES 7500 CYCLES (30A @ 450V DC) Expertise Applied Answers Delivered 4.2 CONTACTS: COPPER ALLOY. 4.3 CONTACT STUDS: STAINLESS STEEL. DCNHR20PF SERIES 10000 CYCLES (20A @ 450V DC) DCNHR 40A POLAR FORM NO: CVP-PE40-0005 REV B 4.4 COIL TERMINALS: TEFLON WIRE UL1332 22AWG-WHITE. CONTACTOR THIRD ANGLE PROJECTION 5. MAIN CONTACT M5 STUD, TORQUE: 1.7~2N•m. MECHANICAL LIFE(NO LOAD, CYCLES) 200, 000 6. MOUNTING: M4 BOLT, RECOMMENDED TORQUE 1.8 ~ 2.3N·m. SIZE DWG. NO. OUTLINE OL-DCNHR40PF, CHART 2 A 7. CONTACTOR PARAMETERS ARE SHOWN IN TABLE 1. **WORKING DUTY** CONTINUOUS DO NOT SCALE DRAWING | SCALE 2:1

F

D

Α

8

7 6 5 4 3 2