

| REV | ECN    | DESCRIPTION                | DATE      | MODIFIED |
|-----|--------|----------------------------|-----------|----------|
| 1   |        | PRE- RELEASE               | 07-19-23  |          |
| 2   | R7649  | UPDATED DRAWING            | 11-29-23  |          |
| 3   | C09712 | UPDATED DRAWING            | 11-11-25  |          |
| 4   | C10415 | UPDATE TORQUE REQUIREMENTS | Jul-14-26 |          |

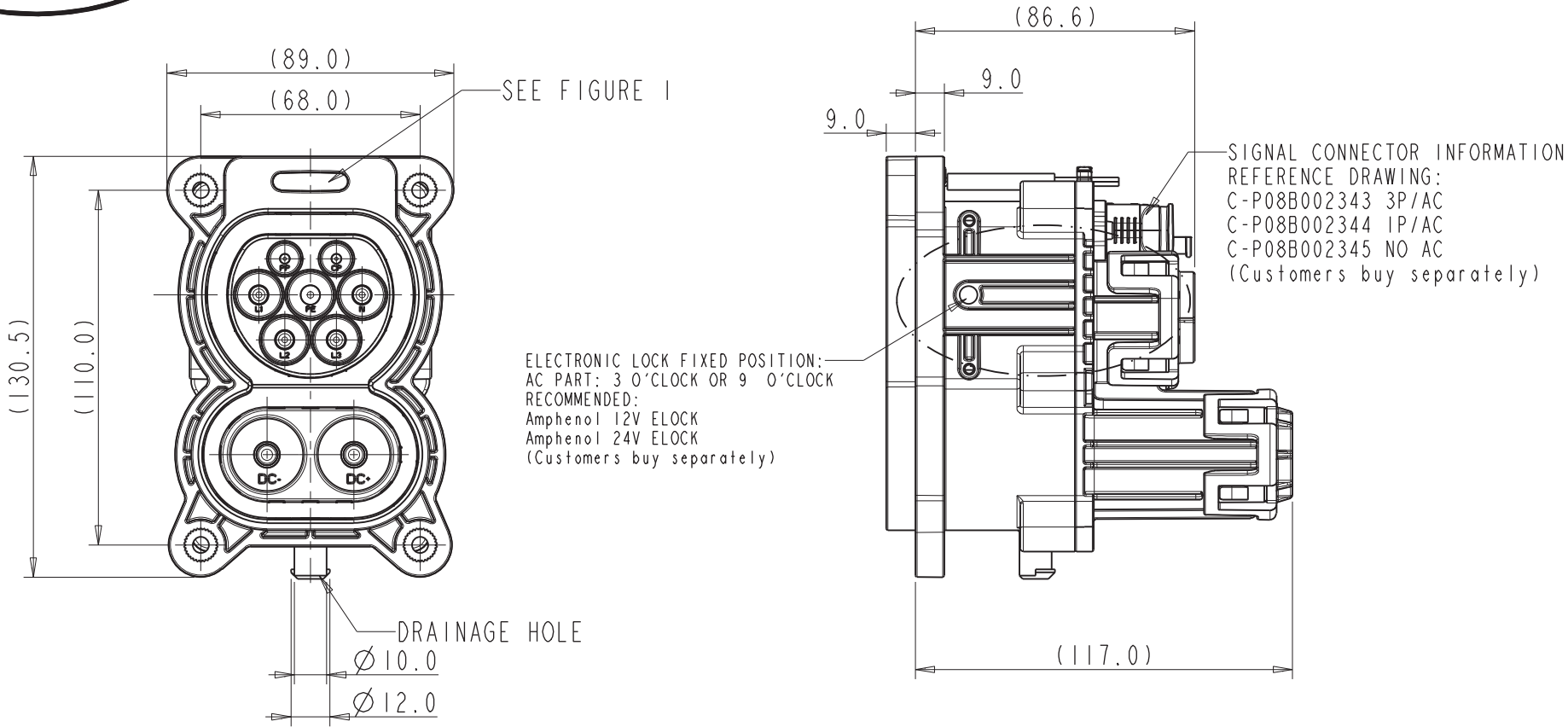


TABLE 1 SPECIFICATION AND REQUIREMENTS

| NOTE | DESCRIPTION                                   | SPECIFICATION OR REQUIREMENT                                                   |   |
|------|-----------------------------------------------|--------------------------------------------------------------------------------|---|
| 1    | HOUSING COLOR                                 | BLACK                                                                          |   |
| 2    | CABLE SPEC                                    | COMPLIANT WITH LV216 ;SEE TABLE 2                                              |   |
| 3    | INSULATION RESISTANCE(NORMAL CLIMATE)         | MIN. 100 MΩ                                                                    | + |
| 4    | MAX. RATING CURRENT                           | SIGNAL:2A<br>AC:32A FOR 6 SQUARE CABLE;63A FOR 16 SQUARE CABLE<br>DC:150A-300A | + |
| 5    | MAX. RATING VOLTAGE                           | SIGNAL: 30 VDC<br>AC: SINGLE PHASE 250 VAC, 3 PHASE 480 VAC<br>DC: 1000 VDC    | + |
| 6    | DIELECTRIC WITHSTAND VOLTAGE                  | SIGNAL: 500 VAC / 60 S<br>AC: 2000 VAC / 60 S<br>DC: 3000 VAC / 60 S           | + |
| 7    | OPERATING AMBIENT TEMPERATURE                 | -30 °C ~ +50°C                                                                 |   |
| 8    | MAX. WORKING TEMPERATURE                      | 90 °C                                                                          | ⊙ |
| 9    | TEMPERATURE SENSOR TYPE                       | PT1000/NTC FOR DC;PT1000/NTC FOR AC                                            |   |
| 10   | MOUNTING TORQUE FOR M6 NUT                    | 5.3±0.5 N.m                                                                    | ⊙ |
| 11   | MOUNTING TORQUE FOR RGB/LVRC/ AC FERRULE      | 0.9±0.1 N.m                                                                    | ⊙ |
| 12   | MOUNTING TORQUE FOR DC FERRULE                | 0.9±0.1 N.m                                                                    | ⊙ |
| 13   | MOUNTING TORQUE FOR ELOCK/BACK COVER          | 0.7±0.035N.m                                                                   | ⊙ |
| 14   | DEGREE OF PROTECTION                          | INLET:IP67<br>WITH COVER:IP55<br>MATED:IP54                                    | + |
| 15   | ASSEMBLY METHOD FOR SCREENING BRAID OF CABLES | ENTER INTO THE CONNECTOR                                                       |   |
| 16   | MATING CYCLES (UNLOADED)                      | REFER TO IEC 62196 2022                                                        | ⊙ |
| 17   | NEUTRAL SALT SPRAY TEST                       | 240H, NOT OCCUR RED CORROSION.                                                 |   |
| 18   | IEC STANDARD                                  | REFER TO IEC 62196-1,2,3                                                       | + |
| 19   | CHARGING MODE                                 | MODE 2/3/4                                                                     |   |
| 20   | ROHS COMPLIANCE                               | YES                                                                            | + |
| 21   | RECOMMENDED HOLE LAYOUT IN MOUNTING PANEL     | SEE FIGURE 2                                                                   |   |
| 22   | CONNECTING METHOD FOR TERMINALS               | CRIMP                                                                          |   |
| 23   | LED INDICATOR LIGHT                           | WORKING VOLTAGE: 24V, REF:C-P02B0000275                                        |   |

HVCOCFX XX X 2 MODEL SELECTION:

C-1-PHASE  
D-3-PHASE  
BLANK FOR NO AC

01-DC300A/AC63A  
02-DC300A/AC32A  
03-DC300A/WITHOUT AC  
04-DC250A/AC63A  
05-DC250A/AC32A  
06-DC250A/WITHOUT AC  
07-DC200A/AC63A  
08-DC200A/AC32A  
09-DC200A/WITHOUT AC  
10-DC150A/AC63A  
11-DC150A/AC32A  
12-DC150A/WITHOUT AC

A-TEMPERATURE SENSOR MODEL DC PT1000+AC NTC  
B-TEMPERATURE SENSOR MODEL DC PT1000+AC PT1000  
C-TEMPERATURE SENSOR MODEL DC PT1000+NO AC  
D-TEMPERATURE SENSOR MODEL DC NTC+AC NTC  
E-TEMPERATURE SENSOR MODEL DC NTC+AC PT1000  
F-TEMPERATURE SENSOR MODEL DC NTC+NO AC

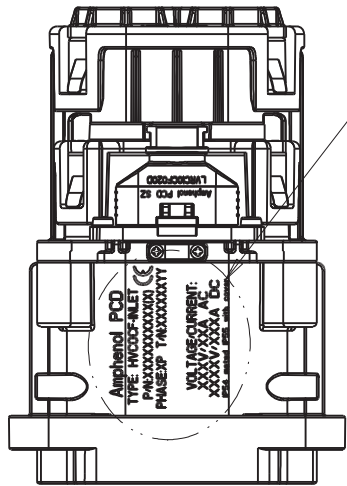
24V LED

RECOMMENDED MODEL :

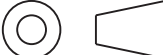
HVCOCFCI1A2:DC 150 A ;AC32A 1PHEASE  
HVCOCFDI1A2:DC 150 A ;AC32A 3PHEASE  
HVCOCFC08A2:DC 200 A ;AC32A 1PHEASE  
HVCOCFD08A2:DC 200 A ;AC32A 3PHEASE  
HVCOFC05A2:DC 250 A ;AC32A 1PHEASE  
HVCOCFD05A2:DC 250 A ;AC32A 3PHEASE  
HVCOFC02A2:DC 300 A ;AC32A 1PHEASE  
HVCOCFD02A2:DC 300 A ;AC32A 3PHEASE

RECOMMENDED PURCHASE COMBINATION:  
1.C-HVCOCFXXXX2+C-P08B002343(4)(5)+C-P02B000051+Amphenol E-LOCK

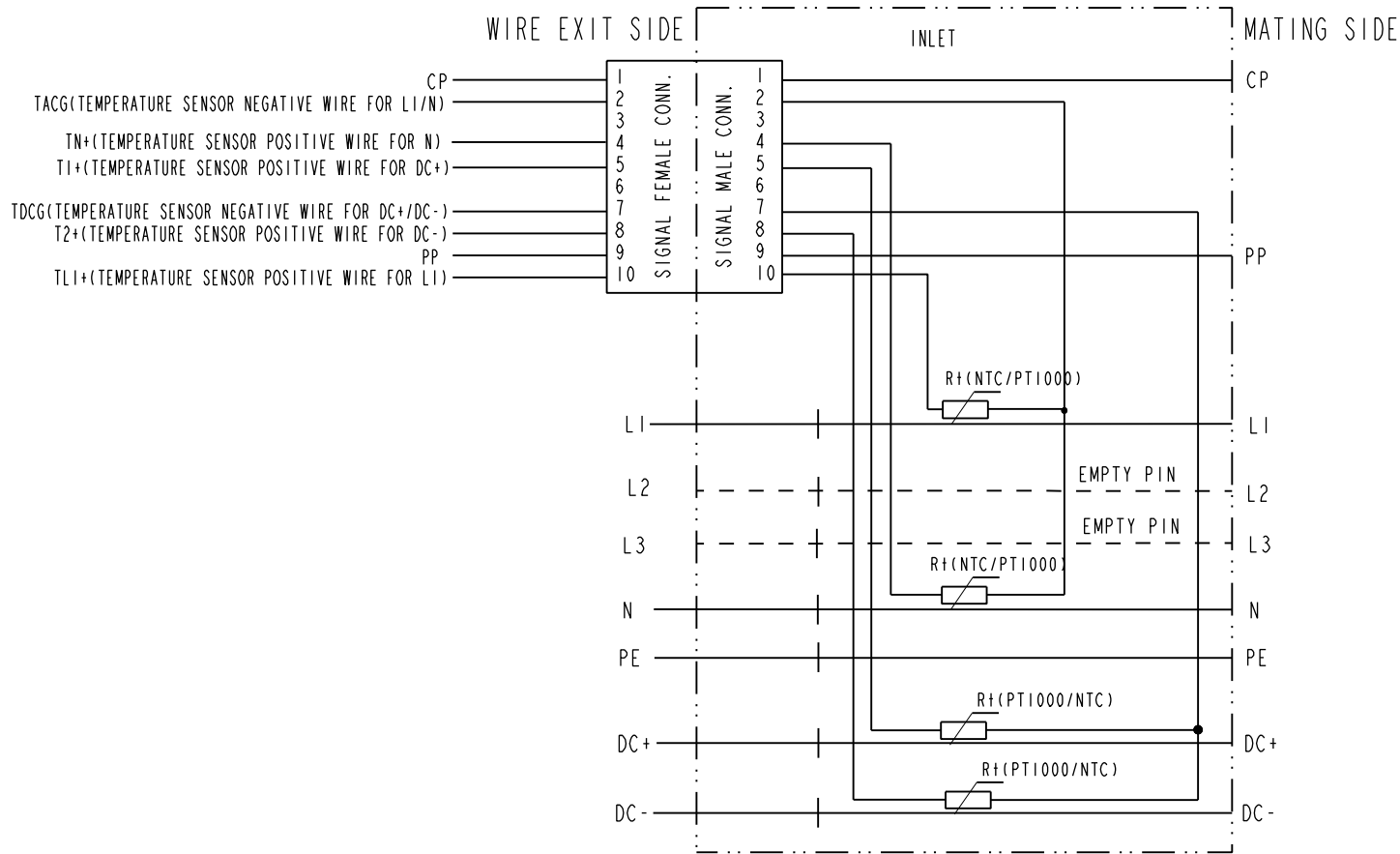
PRINTING INFORMATIONS:



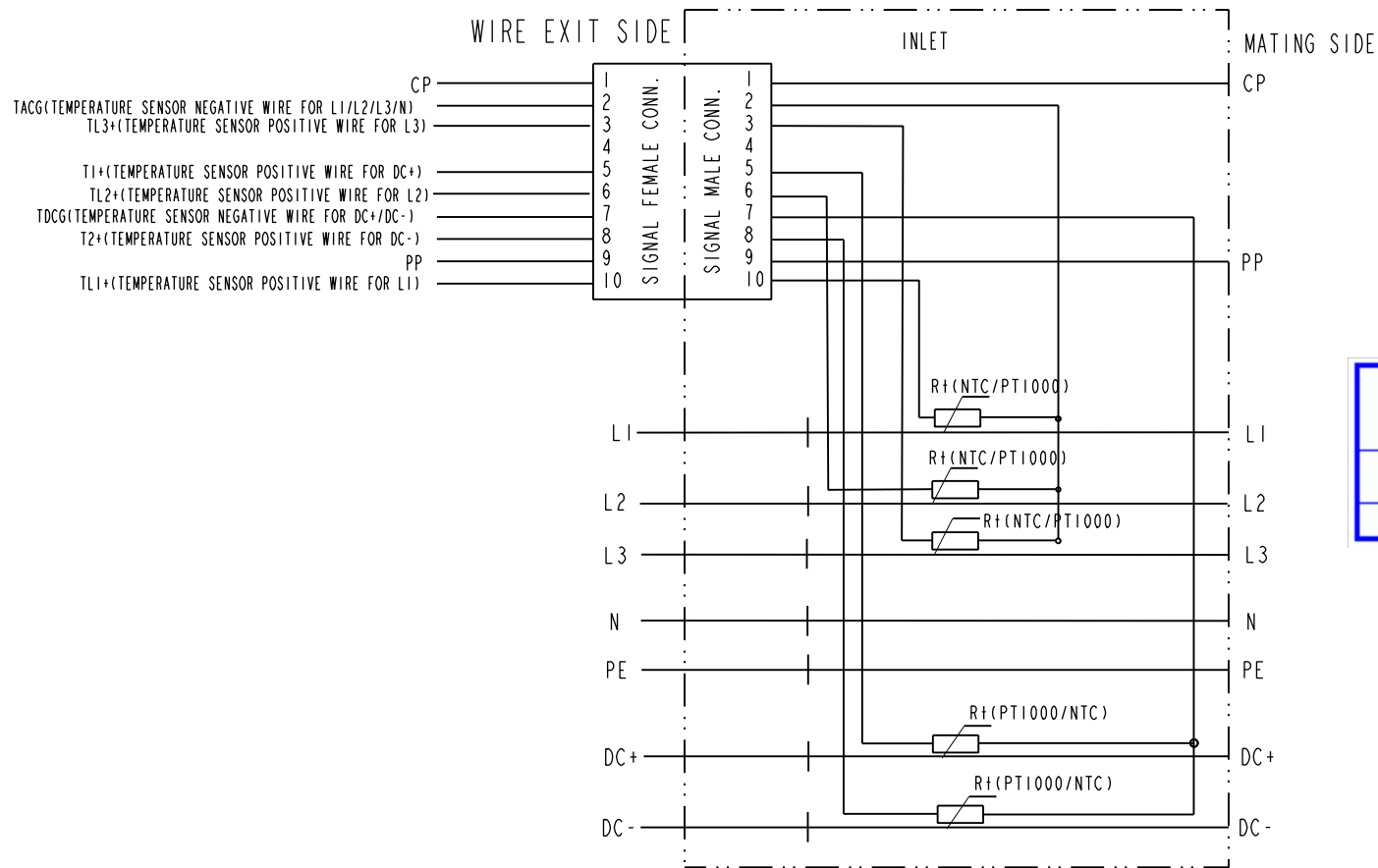
VARIES ACCORDING TO DIFFERENT MODELS:  
PRINTING 1:  
XP:1P  
XXXVAC XXA:250VAC 32A/63A  
XXXXV DC XXXA:1000VDC 150A/200A/250A/300A  
XP:3P  
XXXVAC XXA:480VAC 32A/63A  
XXXXV DC XXXA:1000VDC 150A/200A/250A/300A  
PRINTING 2 (NO AC PART):  
NO"PHASE:XP" XXXV AC"PRINTING  
XXXXV DC XXXA:1000VDC 150A/200A/250A/300A

| DIMENSIONS                             | TOLERANCES                                                                                                                                                                                                 | PROJECTION                                                                            | TITLE                    |                              |              |          |  |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------|------------------------------|--------------|----------|--|
| ANSI Y14.5M<br>UNITS: MM<br>Pro/E FILE | .X ±0.5<br>.XX ±0.05<br>ANGLES ±2°                                                                                                                                                                         |  | CCS2 SOCKET-WITH LED 24V |                              |              |          |  |
| ENGR<br><br>Feb-08-23                  |                                                                                                                                                                                                            |                                                                                       |                          |                              |              |          |  |
| ORIGINAL                               | THIS DOCUMENT CONTAINS<br>PROPRIETARY INFORMATION WHICH<br>IS THE CONFIDENTIAL PROPERTY<br>OF Amphenol PCD Shenzhen Co. Ltd<br>Amphenol PCD Shenzhen Co. Ltd RESERVES<br>THE RIGHT TO CLARIFY THIS DRAWING | CHKD<br><br>rock.chen                                                                 | SIZE<br>A3               | DWG NO.<br><br>C-HVCOCFXXXX2 |              | REV<br>4 |  |
|                                        |                                                                                                                                                                                                            | APPD<br><br>Jouk                                                                      | SCALE: 1:2               |                              | SHEET 1 OF 4 |          |  |
|                                        |                                                                                                                                                                                                            |                                                                                       |                          |                              |              |          |  |

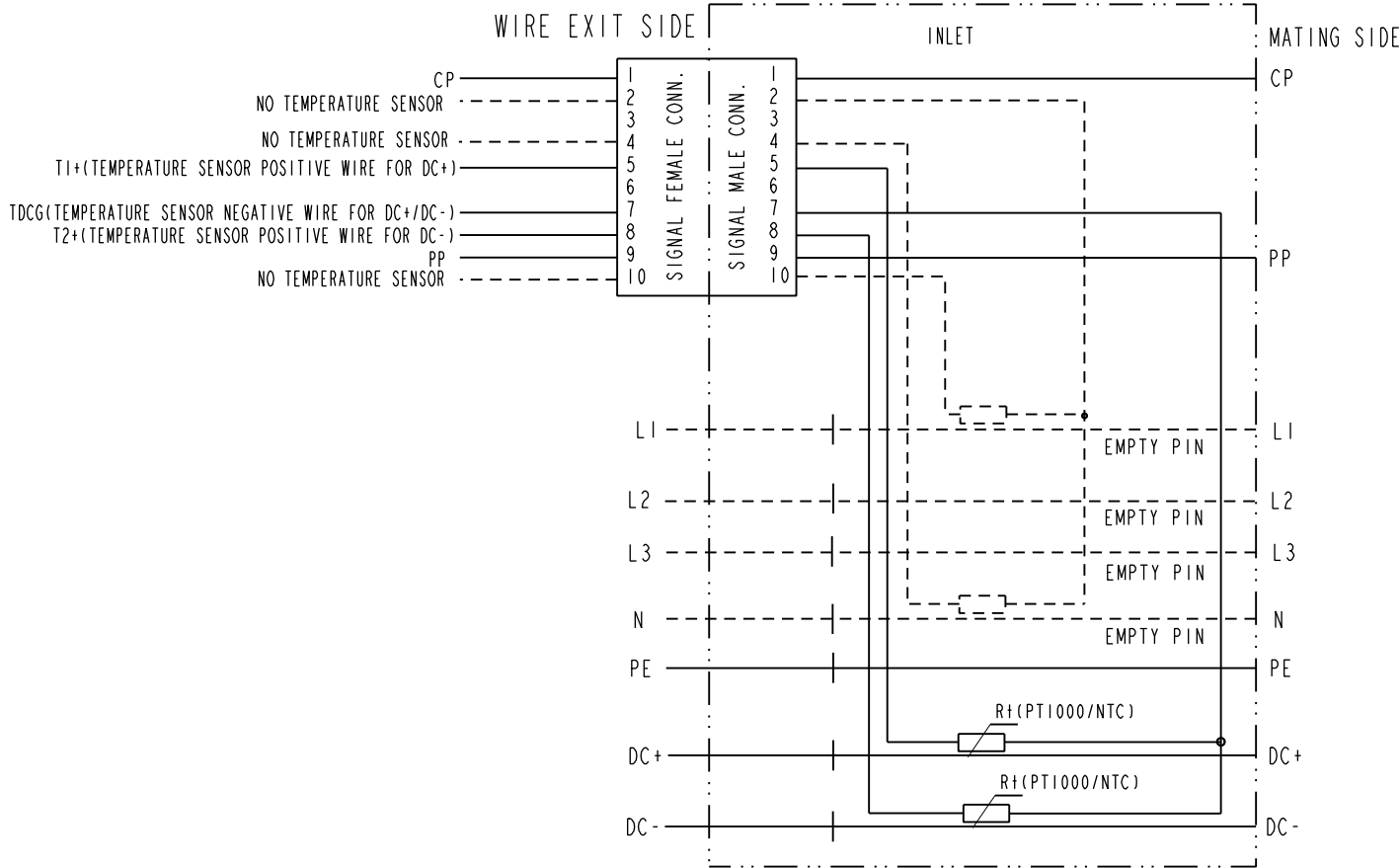
1-PHASE AC CHARGING AND DC CHARGING



3-PHASE AC CHARGING AND DC CHARGING



NO AC CHARGING AND DC CHARGING



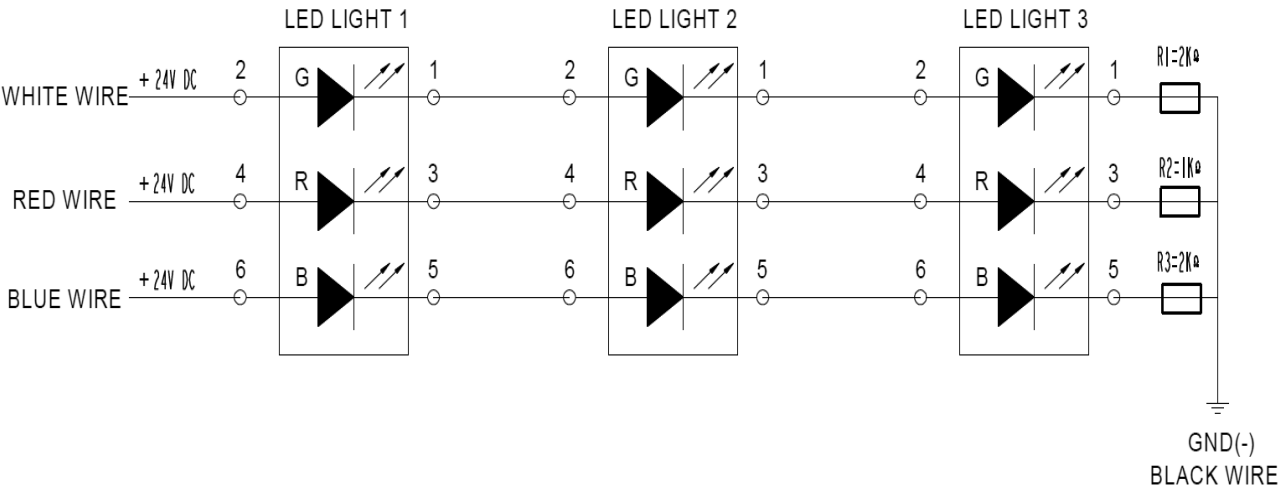
安费诺精密连接器(深圳)有限公司  
Amphenol PCD Shenzhen

受 控 文 件

2026年8月11日

| SIZE       | DWG NO.       | REV          |
|------------|---------------|--------------|
| A3         | C-HVCOCFXXXX2 | 4            |
| SCALE: 1:2 |               | SHEET 2 OF 4 |

FIGURE 1 LED INDICATOR LIGHT



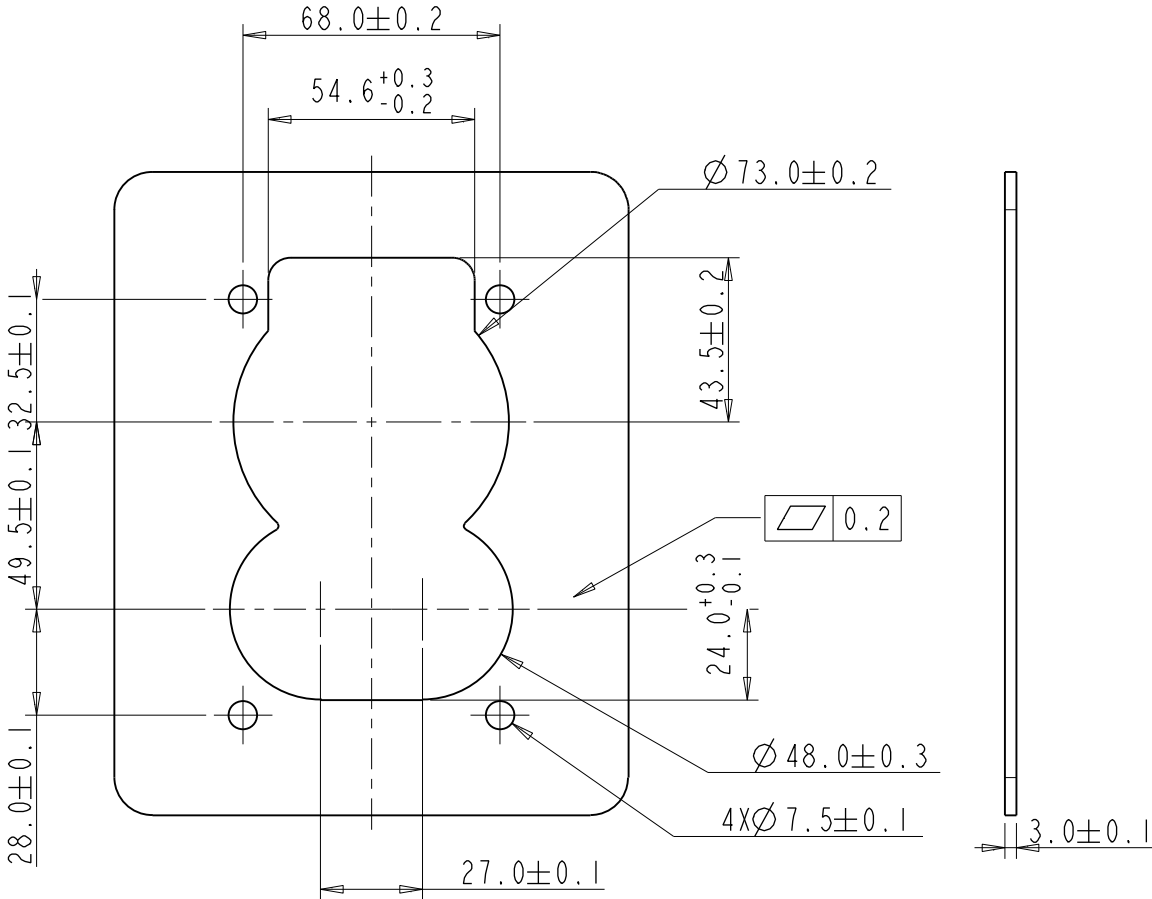
- NOTES:
- 1. PCB BOARD:FR-4, GREEN, UL94 V-0, WHITE SILK-SCREEN
  - 2. CABLE SPEC: 4 CORES, 20AWG(0.5MM^2), COLOR RED/BLACK/BLUE/WHITE.
  - 3. LED LIGHT: 3 COLOR, RED/BLUE/GREEN.
  - 4. THREE LED LIGHTS IN SERIES.VOLTAGE SUPPLY AT LED 24VDC, POSSIBLE VOLTAGE SUPPLY AT LED 21~27VDC
  - 5. OPERATING TEMPERATURE RANGE: -30°C TO 100°C.
  - 6. RoHS COMPLIANCE.

安费诺精密连接器(深圳)有限公司  
Amphenol PCD Shenzhen

受 控 文 件

2026年8月11日

FIGURE 2 RECOMMENDED HOLE LAYOUT IN MOUNTING PANEL



SCALE 1:2

TABLE 2 CABLE SPEC

| CABLE APPLIED                         | CONDUCTOR SIZE mm^2 | O.D. OF CABLE mm | MAX. RATING CURRENT A |
|---------------------------------------|---------------------|------------------|-----------------------|
| AC CABLE                              | 6                   | 6.25±0.25        | 32                    |
|                                       | 16                  | 9.9±0.3          | 63                    |
| DC CABLE<br>(Recommended tinned wire) | 35                  | 14.1±0.3         | 150                   |
|                                       | 50                  | 15.5±0.3         | 200                   |
|                                       | 70                  | 17.8±0.4         | 250                   |
|                                       | 95                  | 20.5±0.4         | 300                   |
| PE CABLE                              | 25                  | 9.6±0.2          | N/A                   |
| SIGNAL CABLE                          | 0.5 TO 0.75         | 1.5 TO 1.9       | 2                     |

| SIZE       | DWG NO.       | REV          |
|------------|---------------|--------------|
| A3         | C-HVCOCFXXXX2 | 4            |
| SCALE: 1:2 |               | SHEET 3 OF 4 |

C-HVCOCFXXXX2

NTC TEMPERATURE SENSOR TABLE 3

| PARAMETER                                                        | SPECIFICATION AND REQUIREMENT                                                                                 |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| RESISTANCE VALUE AT 25°C                                         | 10KΩ                                                                                                          |
| TOLERANCE ON R <sub>25</sub> -VALUE                              | ±1%                                                                                                           |
| OPERATING TEMPERATURE RANGE                                      | -40°C TO +150 °C                                                                                              |
| B <sub>25°C/85°C</sub> -VALUE                                    | 3960K                                                                                                         |
| TOLERANCE ON B <sub>25°C/85°C</sub> -VALUE                       | ±1%                                                                                                           |
| RESPONSE TIME(63.2%) 25°C TO 85°C<br>STIRRED AIR (FOR INFO)      | ≈8 s                                                                                                          |
| DISSIPATION FACTOR ε IN STILL AIR<br>(FOR INFO)                  | 3.0 mW                                                                                                        |
| MAXIMUM POWER DISSIPATION AT 25°C                                | 125 mW                                                                                                        |
| TEMPERATURE COMPENSATION VALUE<br>RELATIVE TO ACTUAL TEMPERATURE | TBD                                                                                                           |
| R-T VALUE                                                        | REFER TO R-T INDEXING TABLE IN TABLE 4                                                                        |
| T(R <sub>NTC</sub> )=90 °C                                       | THE CHARGE CURRENT MUST BE REDUCED IN ORDER TO<br>PREVENT FURTHER INCREASE OF TEMPERATURE AT<br>THE CONTACTS. |
| T(R <sub>NTC</sub> )=100 °C                                      | CHARGING PROCESS HAS TO BE SHUT DOWN!                                                                         |

TABLE 4 R-T INDEXING TABLE FOR NTC

| Temp. (°C) | Rnom(kΩ)  | Rmin(kΩ) | Rmax(kΩ) |
|------------|-----------|----------|----------|
| -50        | 689.93622 | 619.1557 | 760.7168 |
| -40        | 347.11639 | 317.0853 | 377.1474 |
| -30        | 182.02324 | 168.9417 | 195.1048 |
| -20        | 99.31278  | 93.5065  | 105.1191 |
| -10        | 56.25714  | 53.6606  | 58.8537  |
| 0          | 33.00928  | 31.8602  | 34.1584  |
| 10         | 20.01506  | 19.5282  | 20.5019  |
| 20         | 12.51234  | 12.3296  | 12.6950  |
| 30         | 8.04676   | 7.9484   | 8.1451   |
| 40         | 5.31252   | 5.2251   | 5.3999   |
| 50         | 3.59362   | 3.5202   | 3.6670   |
| 60         | 2.48617   | 2.4261   | 2.5462   |
| 70         | 1.75621   | 1.7076   | 1.8048   |
| 80         | 1.26473   | 1.2255   | 1.3039   |
| 90         | 0.92723   | 0.8941   | 0.9603   |
| 100        | 0.69116   | 0.6623   | 0.7200   |
| 110        | 0.52320   | 0.4984   | 0.5480   |
| 120        | 0.40176   | 0.3805   | 0.4230   |

安费诺精密连接器(深圳)有限公司

Amphenol PCD Shenzhen

受 控 文 件

2026年8月11日

PT1000 TEMPERATURE SENSOR TABLE 5

| PARAMETER                                                        | SPECIFICATION AND REQUIREMENT                                                                                 |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| STANDARD                                                         | DIN EN 60751                                                                                                  |
| TOLERANCE                                                        | CLASS 2B(R <sub>0</sub> :±0.24%)                                                                              |
| OPERATING TEMPERATURE RANGE                                      | -50 °C TO +130 °C                                                                                             |
| TEMPERATURE COEFFICIENT                                          | TCR=3850 ppm/K                                                                                                |
| MEASURING CURRENT                                                | 0.1 TO 0.3 mA                                                                                                 |
| SELF HEATING                                                     | 0.8 K/mW at 0°C                                                                                               |
| REACTION TIME                                                    | <3 s TBD                                                                                                      |
| TEMPERATURE COMPENSATION VALUE<br>RELATIVE TO ACTUAL TEMPERATURE | TBD                                                                                                           |
| R-T VALUME                                                       | REFER TO R-T INDEXING TABLE IN TABLE 6                                                                        |
| T(R <sub>PT1000</sub> )=90 °C                                    | THE CHARGE CURRENT MUST BE REDUCED IN ORDER TO<br>PREVENT FURTHER INCREASE OF TEMPERATURE AT<br>THE CONTACTS. |
| T(R <sub>PT1000</sub> )=100 °C                                   | CHARGING PROCESS HAS TO BE SHUT DOWN!                                                                         |

TABLE 6 R-T INDEXING TABLE FOR PT1000

| TEMPERATURE | 0       | +1      | +2      | +3      | +4      | +5      | +6      | +7      | +8      | +9      |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| -50         | 803.08  | 807.05  | 811.02  | 814.98  | 818.95  | 822.91  | 826.88  | 830.84  | 834.80  | 838.76  |
| -40         | 842.72  | 846.67  | 850.63  | 854.58  | 858.54  | 862.49  | 866.44  | 870.39  | 874.33  | 878.28  |
| -30         | 882.22  | 886.17  | 890.11  | 894.05  | 897.99  | 901.93  | 905.87  | 909.80  | 913.74  | 917.67  |
| -20         | 921.60  | 925.54  | 929.47  | 933.39  | 937.32  | 941.25  | 945.17  | 949.10  | 953.02  | 956.94  |
| -10         | 960.86  | 964.78  | 968.70  | 972.62  | 976.53  | 980.45  | 984.36  | 988.27  | 992.18  | 996.09  |
| 0           | 1000.00 | 1003.91 | 1007.81 | 1011.72 | 1015.62 | 1019.53 | 1023.43 | 1027.33 | 1031.23 | 1035.13 |
| 10          | 1039.02 | 1042.92 | 1046.81 | 1050.71 | 1054.60 | 1058.49 | 1062.38 | 1066.27 | 1070.16 | 1074.04 |
| 20          | 1077.93 | 1081.81 | 1085.70 | 1089.58 | 1093.46 | 1097.34 | 1101.22 | 1105.10 | 1108.97 | 1112.85 |
| 30          | 1116.72 | 1120.59 | 1124.47 | 1128.34 | 1132.21 | 1136.07 | 1139.94 | 1143.81 | 1147.67 | 1151.53 |
| 40          | 1155.40 | 1159.26 | 1163.12 | 1166.98 | 1170.84 | 1174.69 | 1178.55 | 1182.40 | 1186.25 | 1190.11 |
| 50          | 1193.96 | 1197.81 | 1201.66 | 1205.50 | 1209.35 | 1213.19 | 1217.04 | 1220.88 | 1224.72 | 1228.56 |
| 60          | 1232.40 | 1236.24 | 1240.08 | 1243.91 | 1247.75 | 1251.58 | 1255.41 | 1259.25 | 1263.08 | 1266.90 |
| 70          | 1270.73 | 1274.56 | 1278.38 | 1282.21 | 1286.03 | 1289.85 | 1293.67 | 1297.49 | 1301.31 | 1305.13 |
| 80          | 1308.95 | 1312.76 | 1316.58 | 1320.39 | 1324.20 | 1328.01 | 1331.82 | 1335.63 | 1339.43 | 1343.24 |
| 90          | 1347.02 | 1350.85 | 1354.65 | 1358.45 | 1362.25 | 1366.05 | 1369.85 | 1373.65 | 1377.44 | 1381.23 |
| 100         | 1385.03 | 1388.82 | 1392.61 | 1396.40 | 1400.19 | 1403.98 | 1407.76 | 1411.55 | 1415.33 | 1419.11 |
| 110         | 1422.90 | 1426.68 | 1430.46 | 1434.23 | 1438.01 | 1441.79 | 1445.56 | 1449.33 | 1453.11 | 1456.88 |
| 120         | 1460.65 | 1464.42 | 1468.18 | 1471.95 | 1475.72 | 1479.48 | 1483.24 | 1487.01 | 1490.77 | 1494.53 |
| 130         | 1498.28 | 1502.04 | 1505.80 | 1509.55 | 1513.31 | 1517.06 | 1520.81 | 1524.56 | 1528.31 | 1532.06 |

SIZE

DWG NO.

A3

C-HVCOCFXXXX2

REV

4

SCALE: 1:2

SHEET 4 OF 4