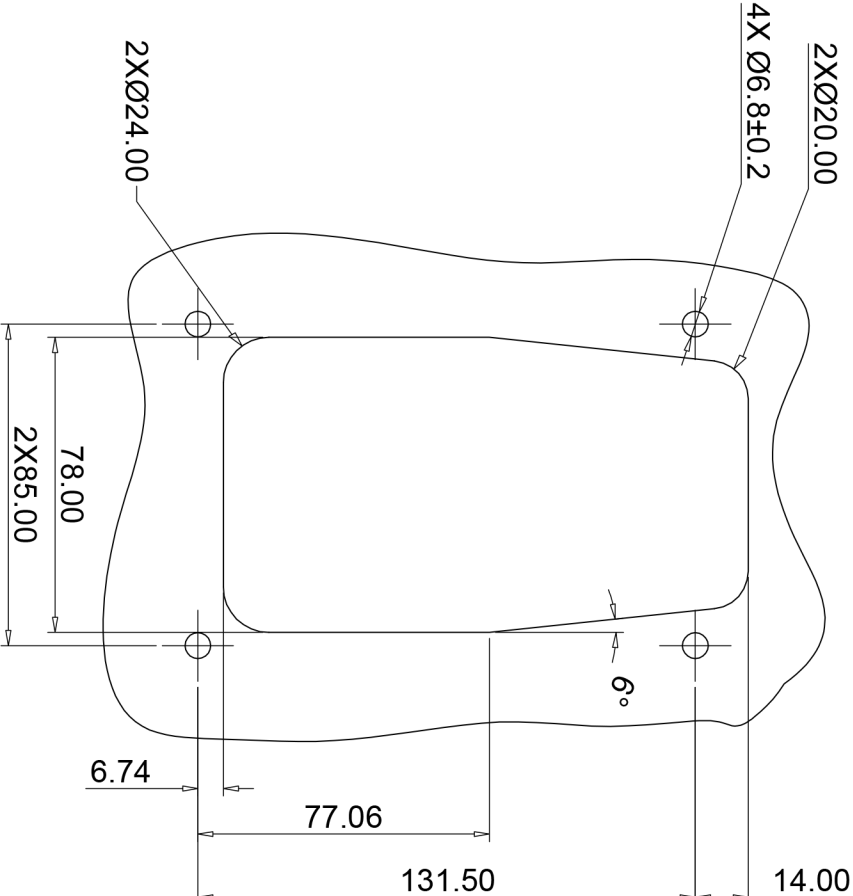
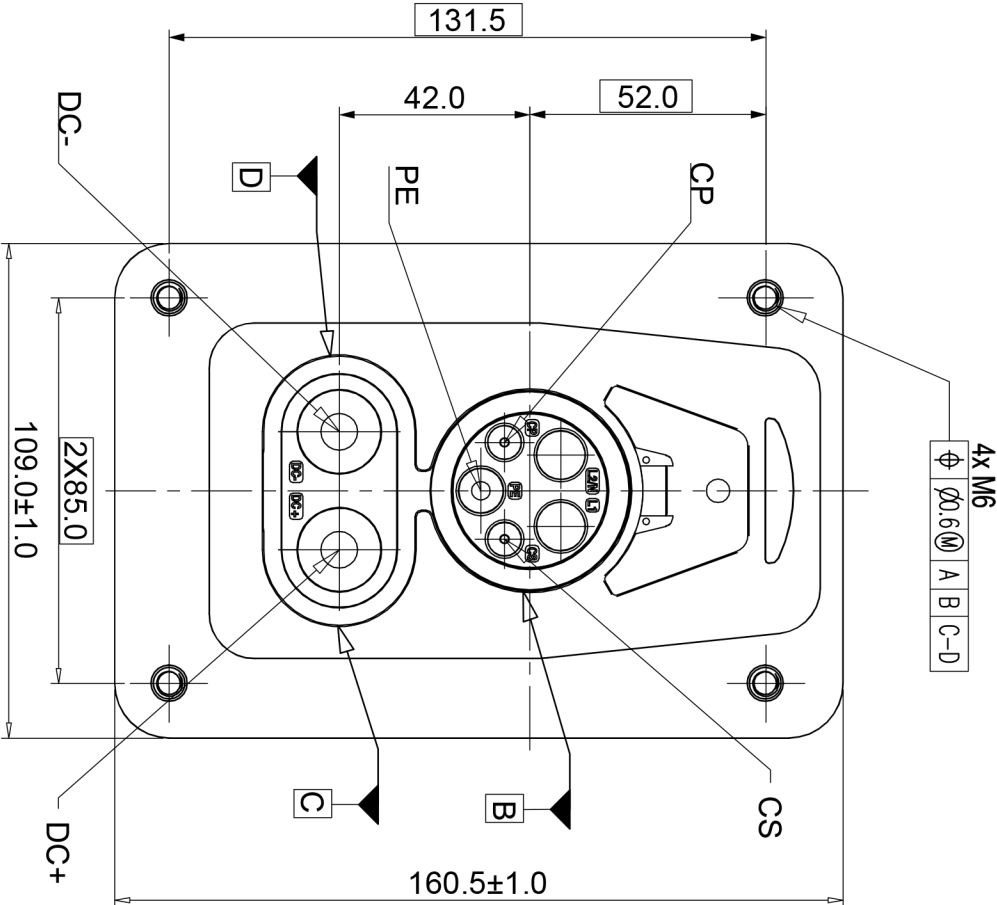
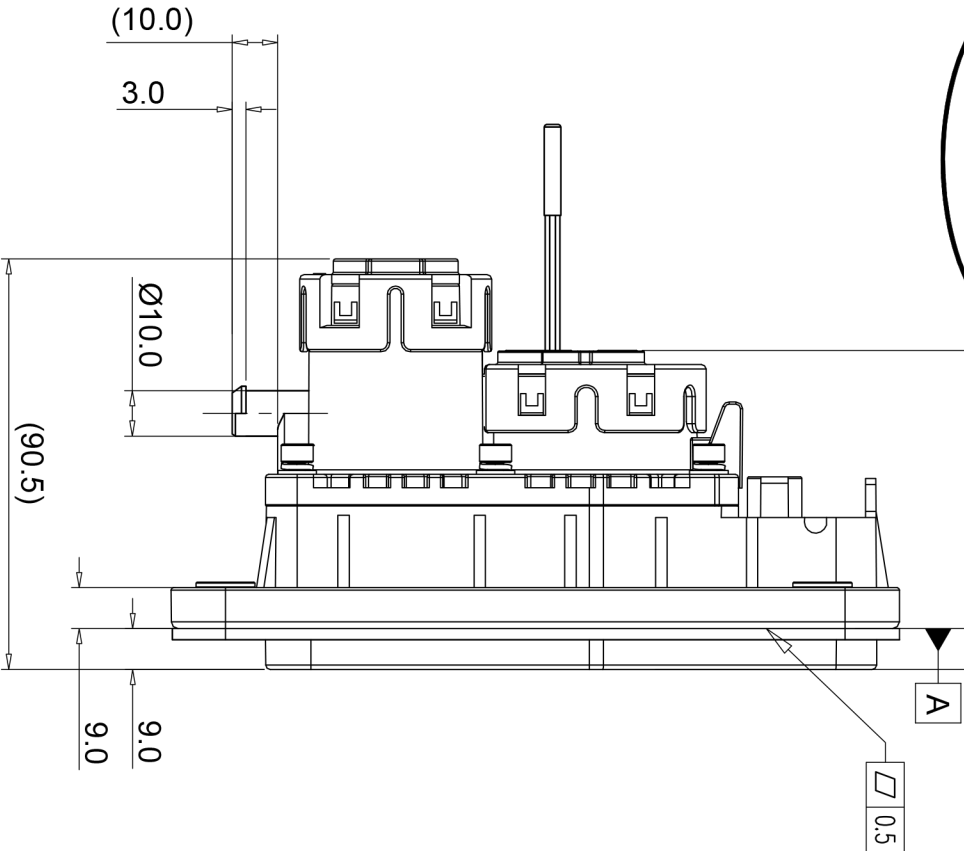


REV	ECN	DESCRIPTION	DATE	MODIFIED
1		RELEASE	Dec.30.2022	



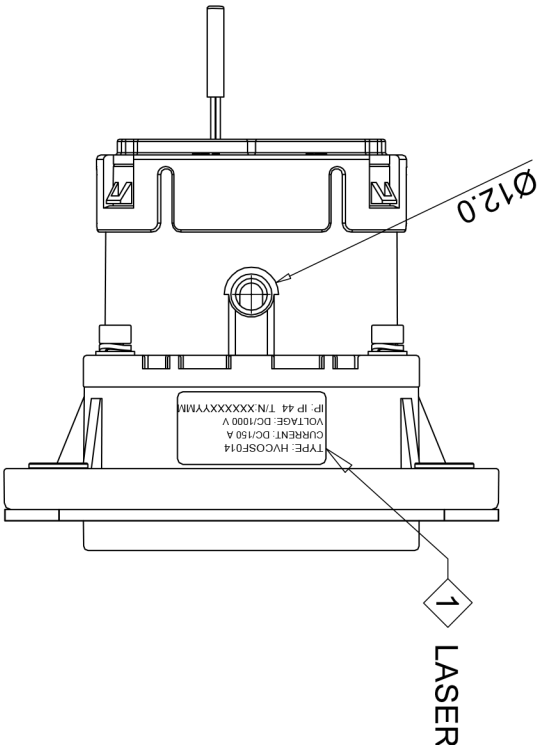
CONNECTOR ASSEMBLY STATUS
(70.3)



MOUNTING PANEL RECOMMENDED SIZE

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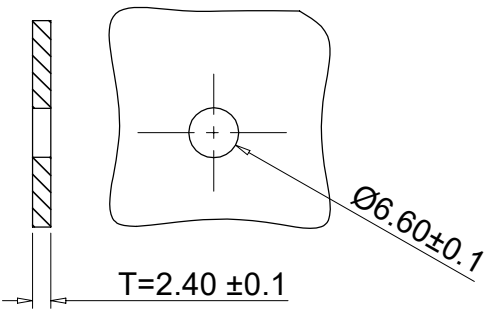


TECHNICAL DATA			
AMBIENT TEMPERATURE	-30°C to +50°C		
RATED CURRENT	DC+ & DC- : 150A DC ; CP&CS: 2A		✦
RATED VOLTAGE	DC+ & DC- : 1000V DC ; CP & CS : 30V		✦
WITHSTAND VOTAGE	DC+ & DC- :3000VAC ; CP & CS : 500V		✦
INSULATION RESISTANCE	100MΩ MIN.		✦
IP CLASS	IP44 (PLUGGED IN) / IP55 (IN "ROAD" POSITION) / IP67 (INNER AREA OF VEHICLE INLET)		✦
DURABILITY	10000 CYCLES MIN.		◎
INSERTION & WITHDRAWAL FORCE	F<100N		
ROHS	ROHS COMPLIANCE		✦

DIMENSIONS	TOLERANCES	PROJECTION	TITLE	
ANSI Y14.5M	.X ± 0.5		Amphenol PCD Shenzhen	
UNITS: MM	.XX ±0.05			
CAD FILE	ANGLES ±2°		CCS1 Vehicle INLET DC1000V/150A; NO LED	

ORIGINAL	THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH IS THE CONFIDENTIAL PROPERTY OF Amphenol PCD Shenzhen Co. Ltd Amphenol PCD Shenzhen Co. Ltd RESERVES THE RIGHT TO CLARIFY THIS DRAWING		CHKD	SIZE	DWG NO.	REV
			ENGR	A3	C-HVCOSF014	1
			APPD	SCALE	1:1	SHEET 1 OF 4

✦ IS CRITICAL CHARACTERISTIC SYMBOL
◎ IS IMPORTANT CHARACTERISTIC SYMBOL



PROTECTIVE COVER MOUNTING PLATE
OPENINGS AND THICKNESS DIMENSIONS

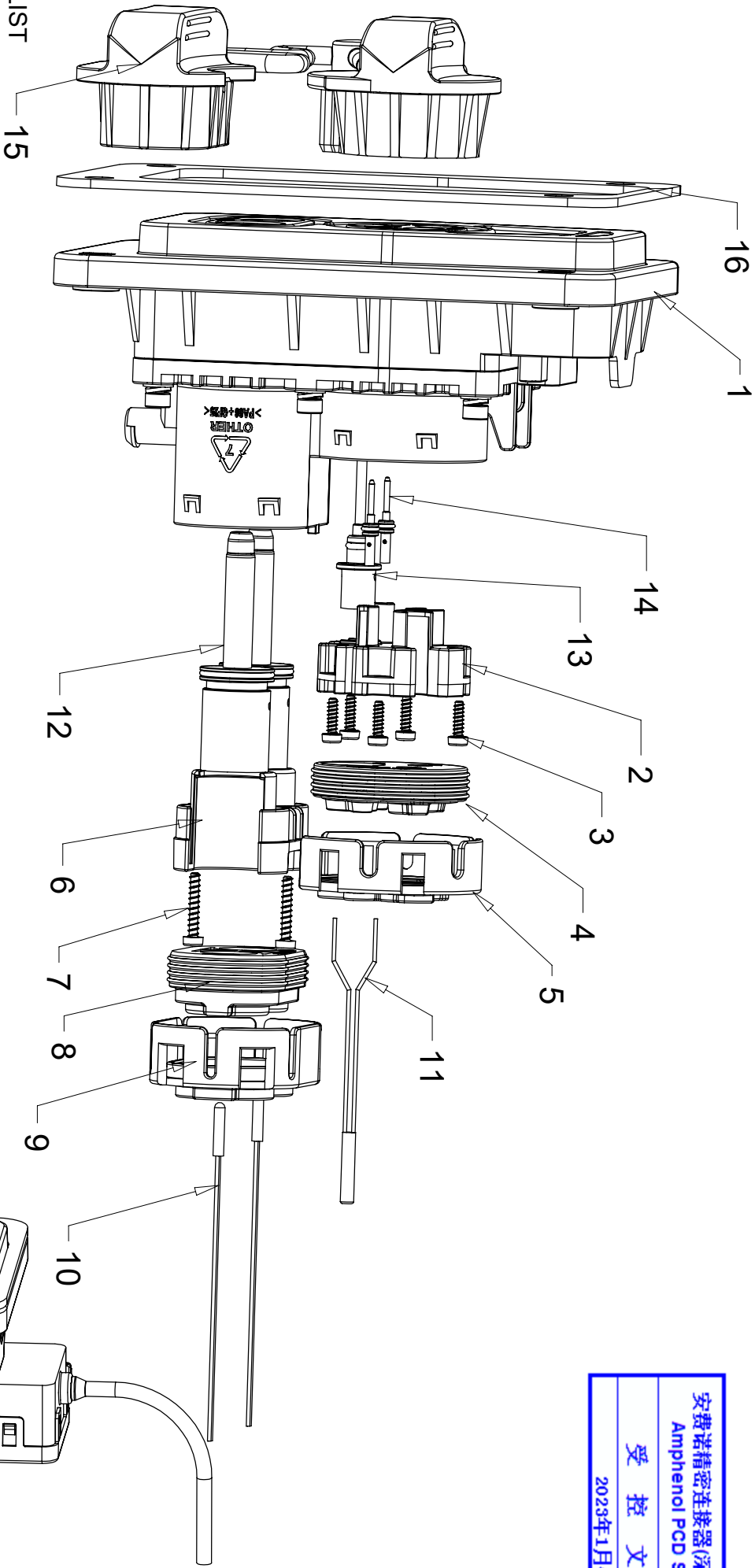
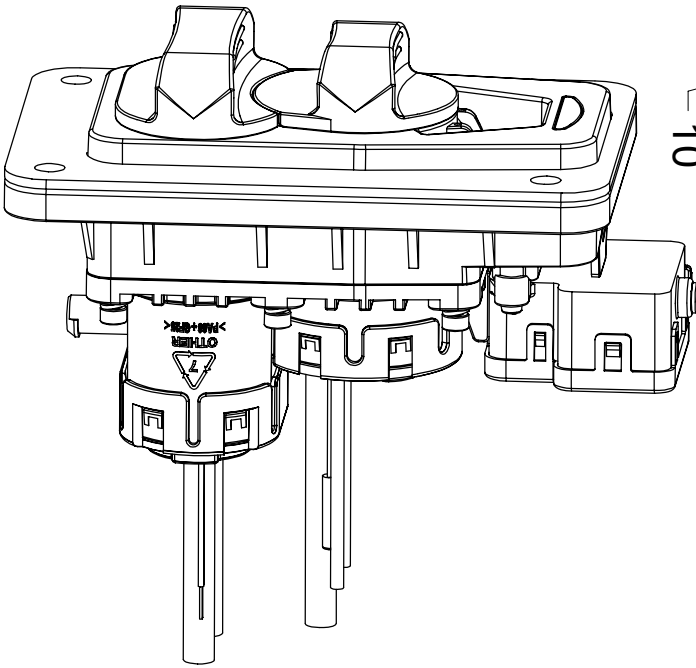


TABLE 1: COMPONENTS LIST

ITEM	PART NUMBER	DESCRIPTION	QTY.	ASSEMBLY/PACKAGING STATUS
1	P02B00024414	HOUSING ASSEMBLY	1	PACKED IN BULK
2	P03BP00192	AC INSERT HOUSING	1	PACKED IN BULK
3	C210006302	SCREW ST2.9X10	5	PACKED IN BULK
4	P01BR00235	AC SEALING RING	1	PACKED IN BULK
5	P03BP0019602	AC REAR COVER	1	PACKED IN BULK
6	P03BP00193	DC INSERT HOUSING	1	PACKED IN BULK
7	P01BN00372	SCREW ST2.9X18	2	PACKED IN BULK
8	P01BR00542	DC SEALING RING	1	PACKED IN BULK
9	P03BP0019707	DC REAR COVER	1	PACKED IN BULK
10	C210006862	PT1000 SENSOR	2	PACKED IN BULK
11	P03BN00433	2.7K ohm RESISTOR	1	PACKED IN BULK
12	P02B000270	DC CONTACT (50SQ)	2	PACKED IN BULK
13	P03BM0024402	PE CONTACT (25SQ)	1	PACKED IN BULK
14	P03BM00245	CS,CP CONTACT (0.75SQ)	2	PACKED IN BULK
15	P02B000048	PROTECTIVE COVER	1	PACKED IN BULK
16	P01BR00241	FLAT WASHER	1	PACKED IN BULK



ASSEMBLY 3D REFERENCE DRAWING

TABLE 2: SPECIFICATIONS AND REQUIREMENTS
CABLE REFERENCE STANDARD: LV216-2;
AC&DC CABLE: TIN-PLATED CABLE IS RECOMMENDED;
CABLE ID SIZE FOR IP PROTECTION OF INLET SIDE.

ITEM	DESCRIPTION	SPECIFICATIONS AND REQUIREMENTS
1	HOUSING COLOR	BLACK
2	UV REQUIRED	YES
3	CABLE SPEC FOR PE PIN	25mm ² (4AWG) UNSHIELD CABLE, O.D.: 9.3±0.2mm
4	CABLE SPEC FOR CP & CS PIN	0.75mm ² (18 AWG) SHIELD CABLE, I.D.: 2.3±0.15mm
5	CABLE SPEC FOR DC+ & DC- PIN	50mm ² (1/0 AWG) SHIELD CABLE, I.D.: 11.85±0.35mm;O.D.: 15.5±0.3mm
6	CABLE SPEC FOR L1 & L2/N PIN	NO
7	LED LIGHT	NO
8	TEMPERATURE SENSOR	MODEL: T01PT1000AATLW200D3L15 WIRE SPEC: 0.25Q.MM, WHITE, 200MM LENGTH, O.D 1.0±0.10mm OTHER SPECIFICATIONS REFER TO TABLE 3,4
9	MOUNTING TORQUE	M6: 8~10N.M
10	MOUNTING POSITION	REAR MOUNTING
11	REFER STANDARD	REFER TO IEC 62196-1; IEC 62196-2; IEC 62196-3;J1772;UL2251
12	PACKING WAY	ALL COMPONENTS ARE PACKED SEPARATELY
13	RESISTOR	2.7 KΩ (BETWEEN PE AND CS)

NOTES:
1. CLOCK TO BE ORDERED SEPARATELY. P/N: HVEL12SS001, MOUNTING TORQUE IS 0.5±0.025N.m

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TABLE 3: TEMPERAUIRE SENSOR

PARAMETER	SPECIFICATION AND REQUIREMENT
OPERATING CURRENT	$\leq 0.3\text{mA}$
DIELECTRIC WITHSTAND VOLTAGE	$\geq 3.0\text{kV@AC}$
MEASURED TEMPERATURE RANGE	-50°C TO 300°C
SIGNIFICANT CODE	$R_{PT1000A}$: RESISTANCE MEASURED BY THE PT1000A TEMPERATURE SENSOR $T(R_{PT1000A})$: TEMPERATURE($^{\circ}\text{C}$) AT THE DC CONTACT BASED ON THE RESISTANCE OF THE PT1000A SENSOR. IF $T \geq 0$, THEN $R(T) = R_0 * (1 + A * T + B * T^2)$ IF $T < 0$, THEN $R(T) = R_0 * (1 + A * T + B * T^2 + C * (T - 100^{\circ}\text{C}) * T^3)$ $R_0 = 1000\Omega$ $A = 3.9083 * 10^{-3} \text{ } ^{\circ}\text{C}^{-1}$ $B = -5.775 * 10^{-7} \text{ } ^{\circ}\text{C}^{-2}$ $C = -4.183 * 10^{-4} \text{ } ^{\circ}\text{C}^{-4}$ OR REFER TO TABLE 6
$T(R_{PT1000A}) = 90^{\circ}\text{C}$	TEMPERATURE DETECTED BY PT1000 SHOULD NOT EXCEED 90°C DURING USE

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TABLE 4 TEMP./RESISTOR COMPARISON TABLE (Ω)

Temperatur in °C	0	1	2	3	4	5	6	7	8	9
-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	1347,04	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

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SIZE	DWG NO.	REV
A3	C-HVCOSF014	1
SCALE 1:1		SHEET 4 OF 4