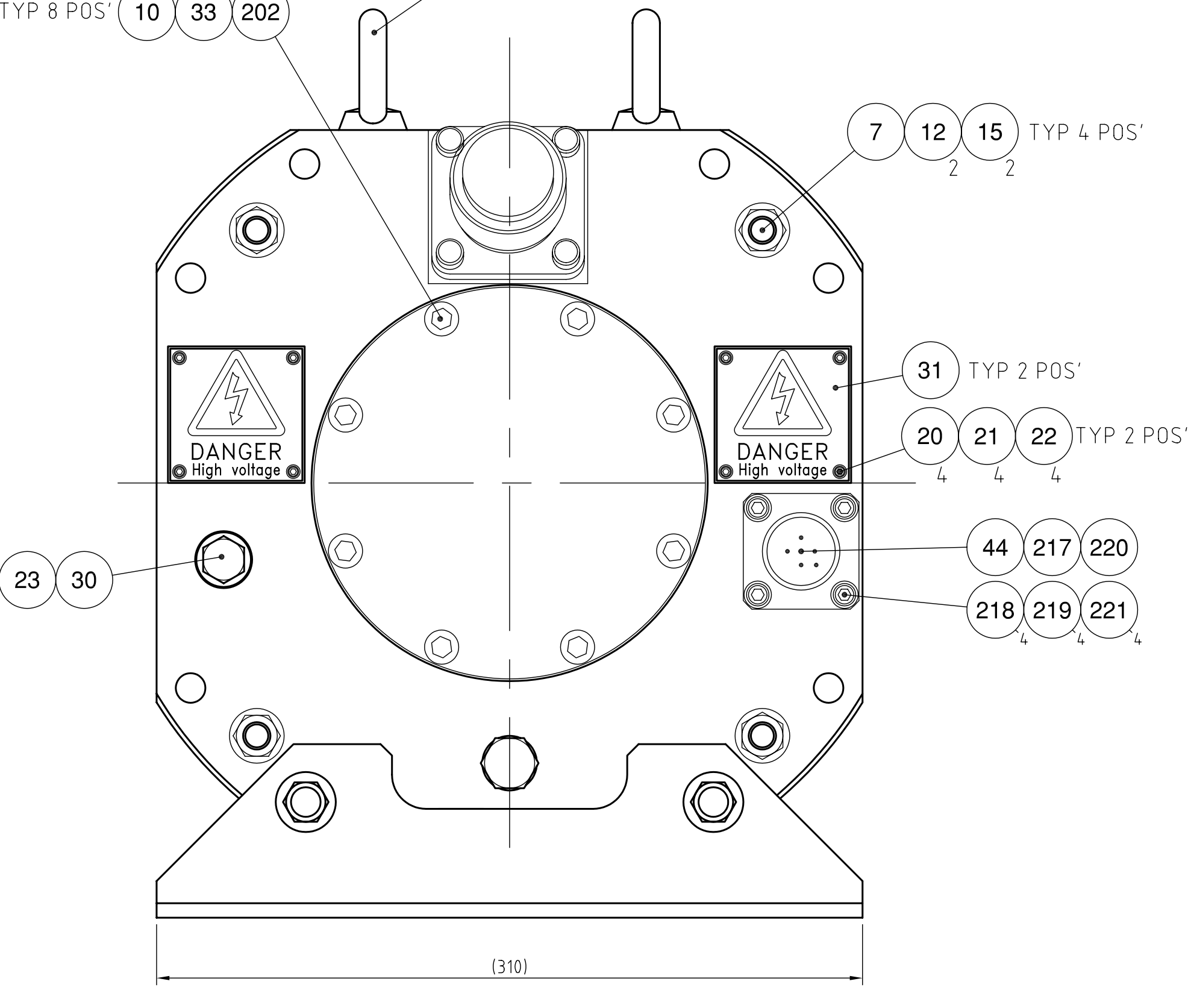
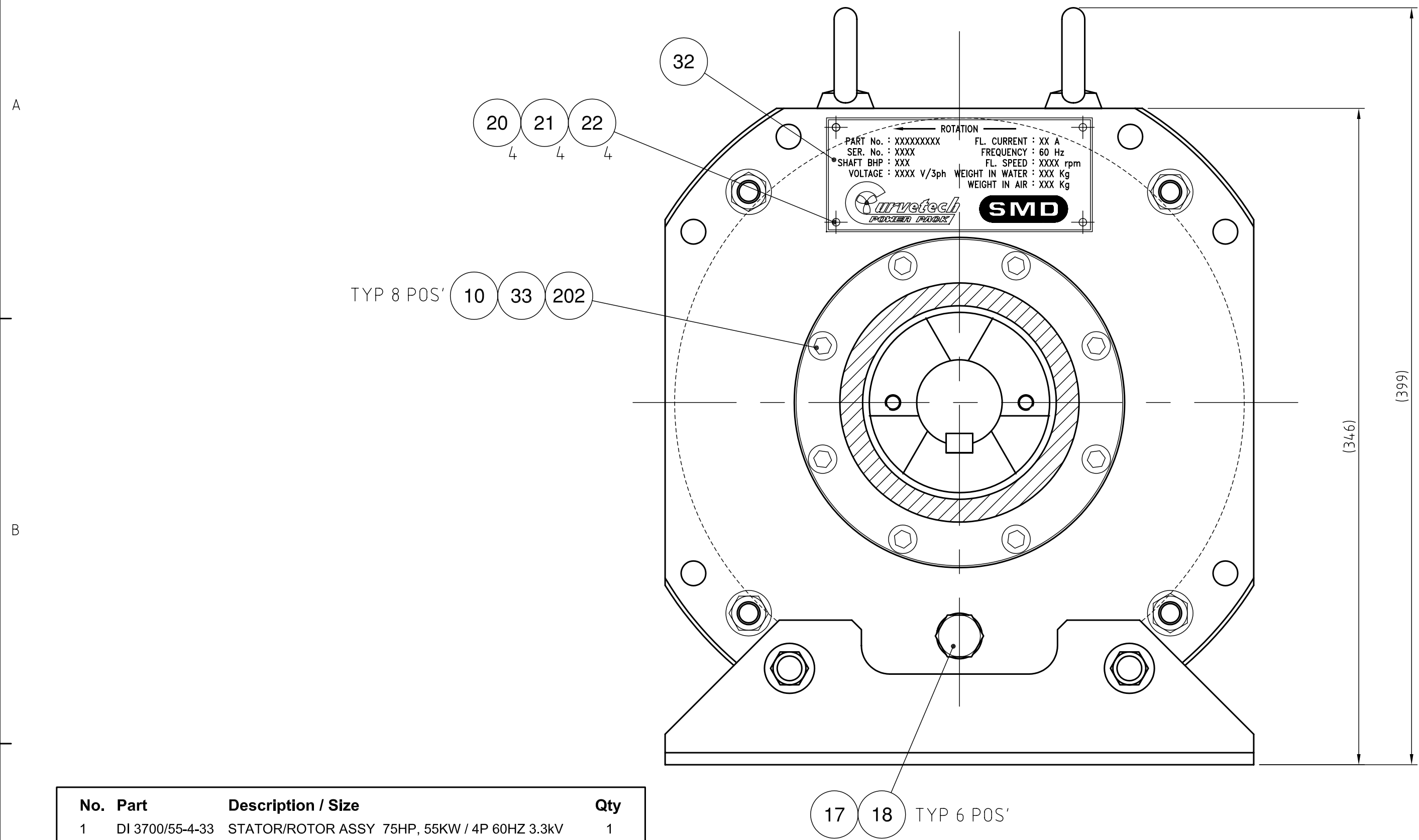




HPU WIRING DIAGRAM 46

Power Connector	PIN	DESCRIPTION	WIRE
	1	Phase A	U1
	2	Phase B	V1
	3	Phase C	W1
	4	EARTH	EARTH

Signals Connector	PIN	DESCRIPTION	WIRE
	1	Water Leak (+)	1
	2	Water Leak (-)	2
	3	PT100 Sensor (+)	3
	4	PT100 Sensor (-)	4

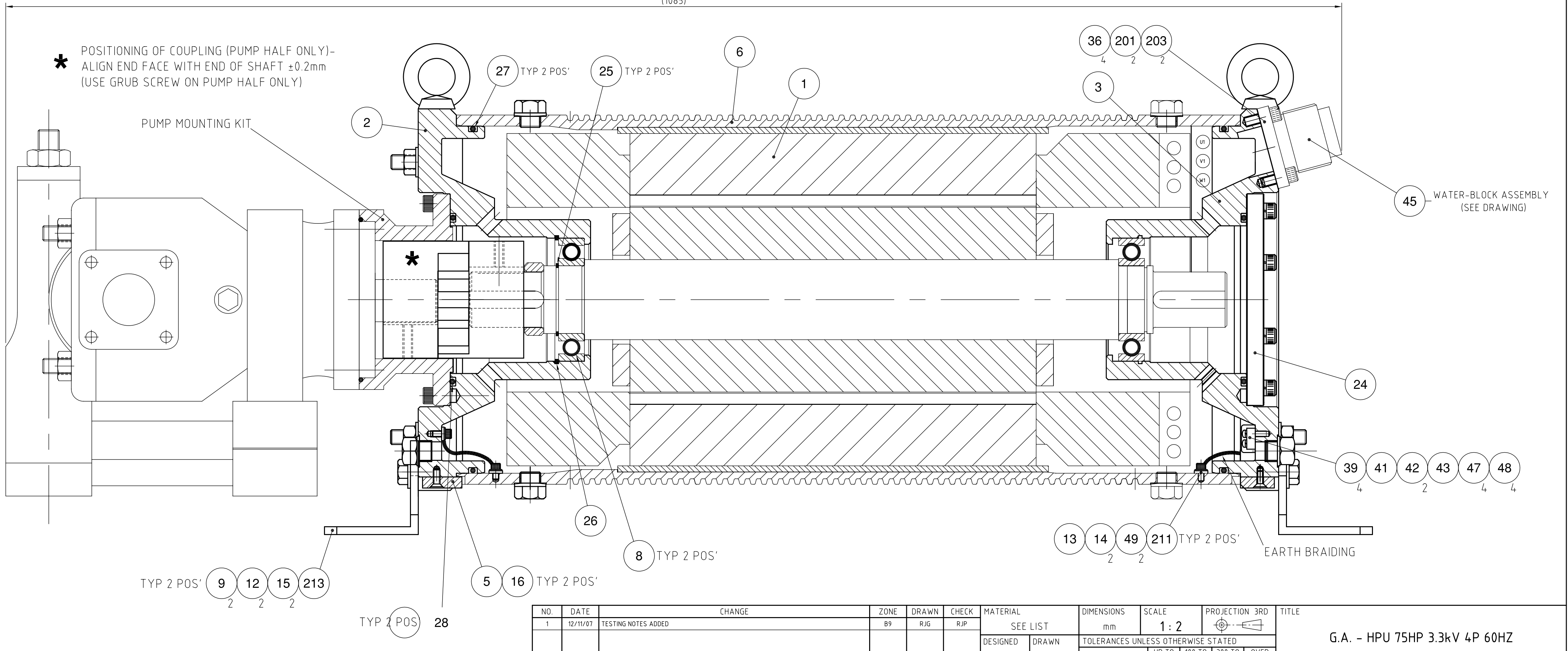
Earth Connection The power connector metal shell, both end caps and the casing are internally connected to the power connector pin 4.

Tension rod torques M12 tension rods torqued to 30 Nm

TESTING NOTES
THE FOLLOWING TESTS SHOULD BE CARRIED OUT ONCE THE MOTOR IS BUILT - A CERTIFICATE OF CONFORMANCE MUST BE ISSUED WITH THE RESULTS INCLUDED:

1. LOW VOLTAGE (500V / 1000V) RESISTANCE CHECK - PHASE TO PHASE AND PHASE TO EARTH.
2. TRANSFORM TEST - MEASURE LINE CURRENT ON ALL THREE PHASES TO CHECK PHASE BALANCE AND LOCKED ROTOR CURRENT. USE 650V.
3. LIGHT RUN TEST - RUN MOTOR AT 400V.
4. RTD RESISTANCE.
5. 5000VDC INSULATION TEST

No.	Part	Description / Size	Qty
1	DI 3700/55-4-33	STATOR/ROTOR ASSY 75HP, 55kW / 4P 60HZ 3.3kV	1
2	DI 3715	HPU BLANK END HOUSING	1
3	DI 3701	HPU END HOUSING	1
5	DI 3704	HOUSING LOCATION KEY A4 SS	2
6	DI 3794	MOTOR HOUSING 75HP	1
7	DI 3795	HPU TENSION ROD	4
8	OC 9313	DEEP GROOVE BALL BEARING	2
9	OB 1011	BOLT M12 x 60 SHCS SS A4	4
10	OB 1065	BOLT M10 x 30 SHCS A2 SS	16
12	ON 1025	NUT M12 NYLOC	12
13	OB 1067	BOLT M5 x 10 SHCS A2 SS / M5 x 10	2
14	OW 1011	WASHER M5 FLAT FORM A	4
15	OW 1027	WASHER M12 FLAT SS / M12	16
16	OB 1209	BOLT M5 x 12 CSK SKT HEAD SS A2 / M5 x 12	2
17	OF 2011	PLUG, 3/8" BSPP SS	6
18	OW 1006	BONDED SEAL, 3/8" BSP SS	6
19	OC 9312	M12 EYE BOLT 0.4 TONNES (AXIAL)	4
20	OB 1068	BOLT M3 x 10 SHCS A4 SS	12
21	OW 1014	WASHER M3 FLAT A2 SS	12
22	OW 1037	WASHER M3 SPRING A4 SS	12
23	OR 1016	O RING BS014	1
24	DI 3707	HPU MOTOR END CAP	2
25	OC 9314	CIRCLIP.EXTERNAL.55 MM DIA. / 55MM DIA	2
26	OC 9315	CIRCLIP.INTERNAL.100 MM DIA.	1
27	OR 1044	O RING 378	2
28	OR 1045	O RING 354	2
30	DI 3128	BLANKING PLUG 7/16 THREAD 3/4 A/F SS	1
31	OC 9316	HPU WARNING LABEL	2
32	OC 9317	HPU IDENTIFICATION LABEL	1
33	OW 1041	WASHER M10 SPRING SS	16
36	OW 1030	WASHER M8 SPRING SS	4
39	OW 1015	WASHER M4 FLAT A2 SS	4
41	OC 9332	TERMINAL STRIP 2-WAY PIECE	1
42	OC 9333	TERMINAL END FIXING	2
43	OC 9334	TERMINAL STRIP JOINT 1 x 10	1
44	AA0260	CONNECTOR MCBH-4-MP SS	1
45	AB0614	PENETRATOR WATER BLOCKED / 3000VAC 50AMP	1
46	DE 5121	HPU WIRING DIAGRAM	0
47	OC 41622	BOLT M4 x 16 PAN POZI SCREW A2 SS	4
48	OW 1042	WASHER M4 SPRING SS	4
49	OW 1012	WASHER M5 SPRING SS	4
201	OC 9303	HELICOIL M8 X 2D SS A4	2
202	OC 9407	HELICOIL M10 x 2D SS A4	16
203	OC 9406	HELICOIL M8 x 1D SS A4	2
210	LB 0084-1	HPU ASSY, SETUP, TEST	0
211	OB 1028	BOLT M5 x 12 SHCS A4 SS / M5 x 12	2
213	DI 3702	HPU MOUNTING FEET (SMALL)	2
217	DI 3882	HPU SENSOR PLATE SS	1
218	PB9266	BOLT M6 x 20 SHCS SS	4
219	OC 9309	HELICOIL M6 X 1 1/2D A4 SS	4
220	OR150125	O RING BS125 (33.00 x 2.62)	1
221	PB9764	WASHER M6 SPRING SS	4



NO.	DATE	CHANGE	ZONE	DRAWN	CHECK	MATERIAL	DIMENSIONS	SCALE	PROJECTION 3RD	TITLE
1	12/11/07	TESTING NOTES ADDED	B9	R/JG	R/JP	SEE LIST	mm	1 : 2		G.A. - HPU 75HP 3.3kV 4P 60HZ
						DESIGNED R.GARNER	DRAWN M.BARNES	TOLERANCES UNLESS OTHERWISE STATED		
						DATE 29/10/07	CHECKED RJP	FABRICATION	UP TO 100	100 TO 300
								MACHINED PART	300 TO 1000	OVER 1000
									± 1.0	± 1.5
									± 0.15	± 0.4
									± 0.8	± 1.0

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Soil Machine Dynamics

DO NOT SCALE

DRAWING NO.
AB4079

SHEET 1 OF 1

ISSUE NO.
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