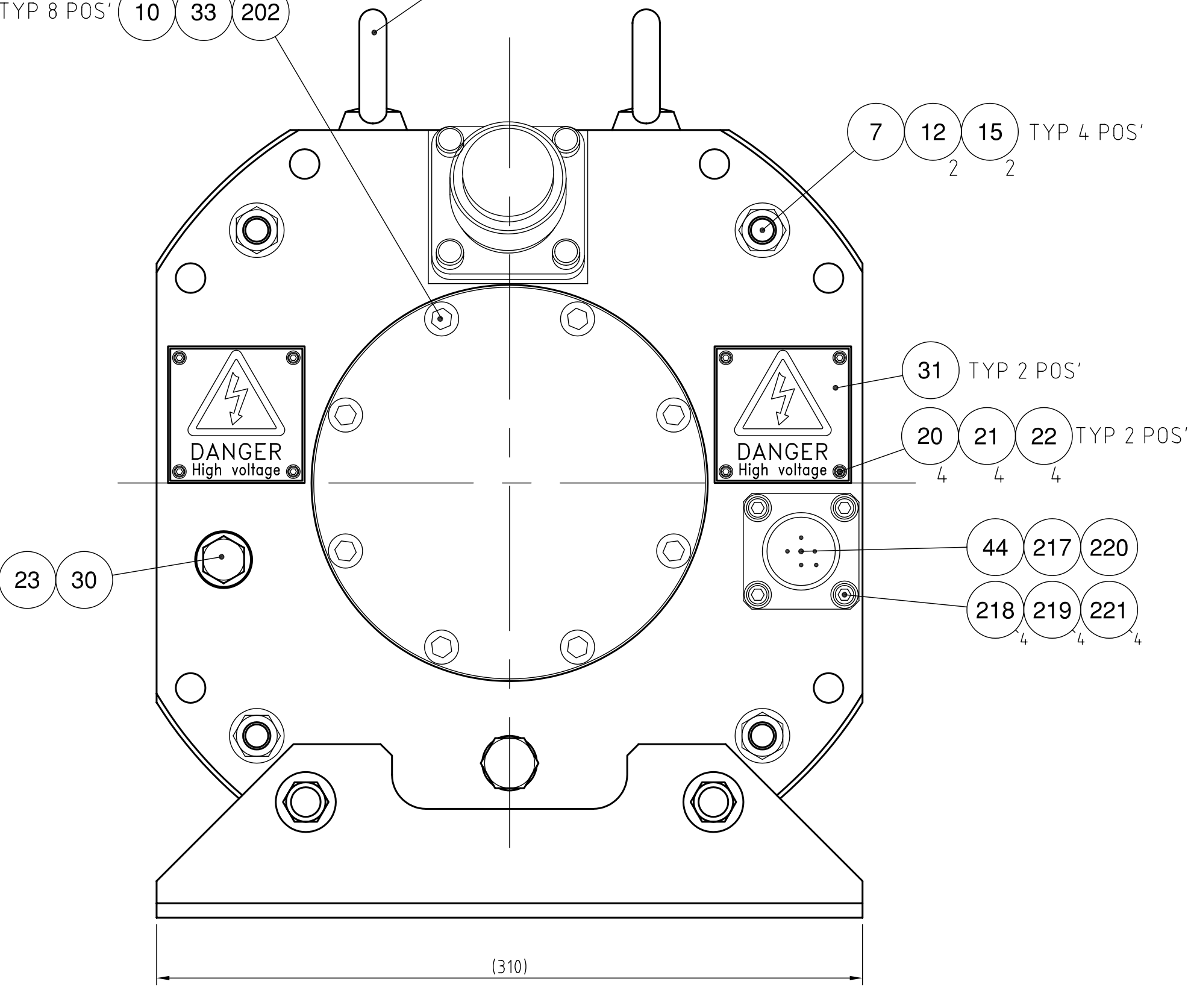
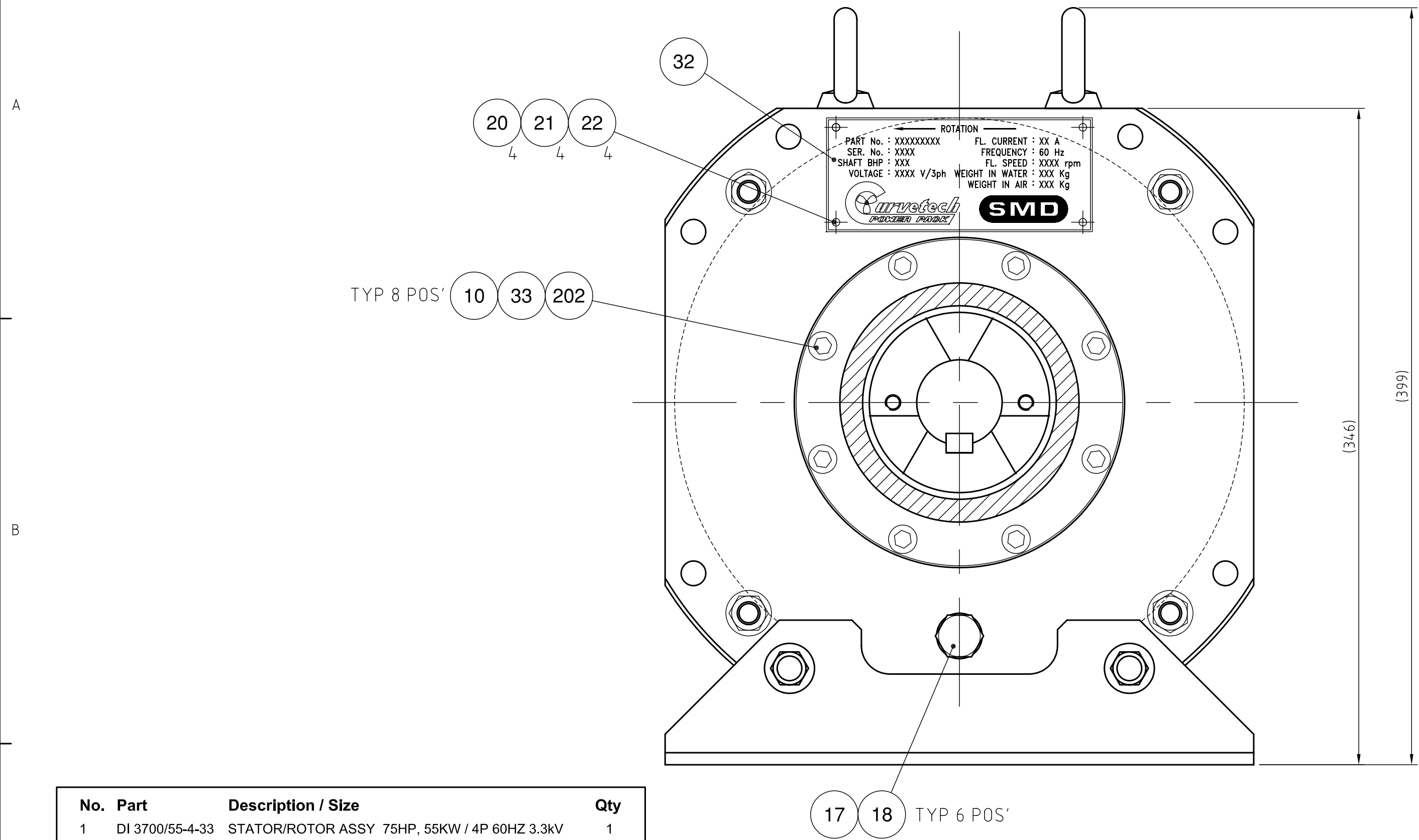




HPU WIRING DIAGRAM 46

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

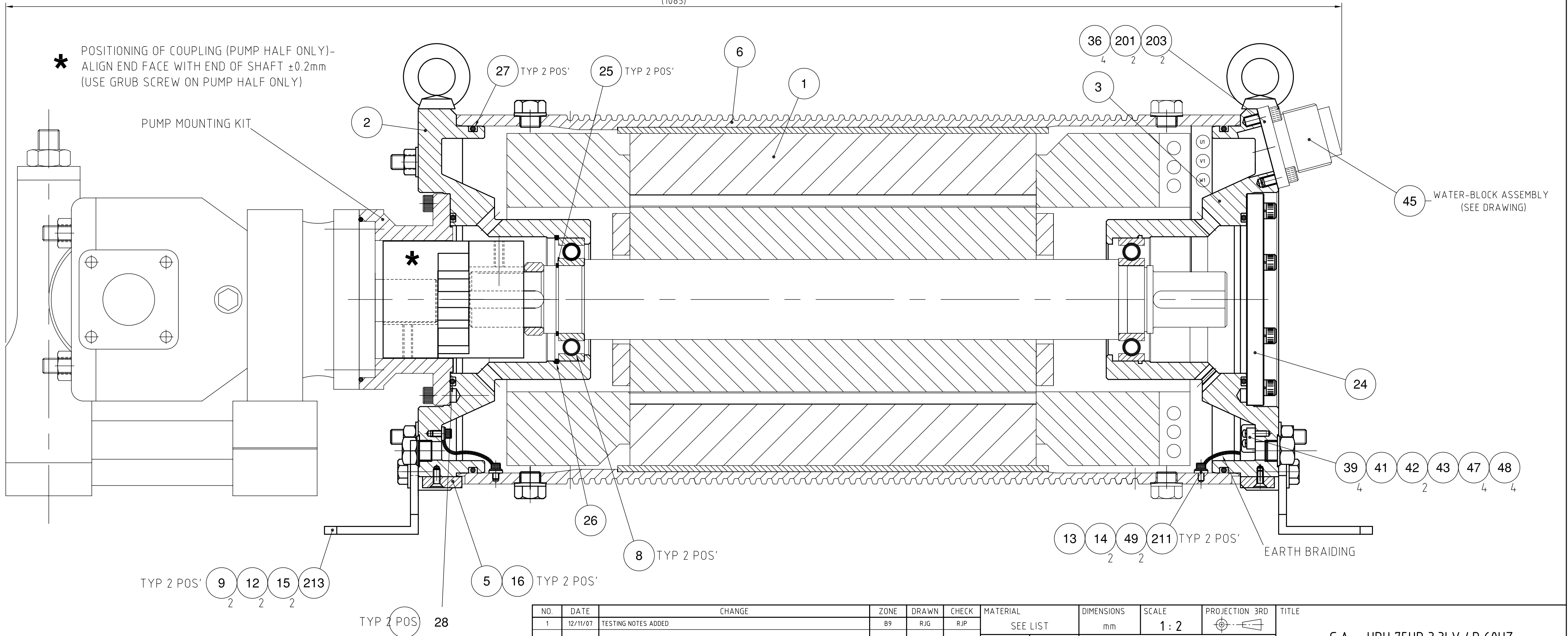
Earth Connection: The power connector metal shell, both end caps and the casing are internally connected to the power connector pin 4.

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	DIMENSION mm	UP TO 100 100 TO 300 300 TO 1000 OVER 1000	DO NOT SCALE
								FABRICATION	± 1.0 ± 1.5 ± 2.0 ± 3.0	
								MACHINED PART	± 0.15 ± 0.4 ± 0.8 ± 1.0	

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Soil Machine Dynamics

DRAWING NO.
AB4079

ISSUE NO.
1

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