



SCHLEIFRING DREHSTROM-HOCHSPANNUNGS-MOTOREN

Kühlart: IC81W, Wasser-Luft Kühlung

SLIPRING THREE - PHASE HIGH VOLTAGE MOTORS

Cooling Method: IC81W, Water-Air cooling

MOTEURS DE HAUTE TENSION DE TROIS PHASE

Méthode de refroidissement IC81W, eau-air de refroidissement



13.8 kV - 60 Hz - CL F - IP23

Typ	Nennleistung	N-strom 13.8 kV	Nenn- drehzahl	Wirkungs- grad	Leistungs- faktor	Kipp- moment	Rotor Spannung	Rotor Strom		Gewicht
Type	Rated output	Current 13.8 kV	Rated speed	Efficiency %	Power factor	B-down Torque	Rotor voltage	Rotor current	Jmotor	Weight
Type	Puissance nominale	Intensité 13.8 kV	Vitesse nominale	Rendement %	Facteur de puissance	Couple maximal	Voltage Rotor	Courent Rotor		Masse
	KW	A	r/min	%	cos φ	MK / MN	V	A	kg.m2	kg

4 Polig / 4 Poles / 4 Pôles

HJWR1400A-4	200	11	1780	91.5	0.83	3.1	486	264	10	3520
HJWR1400B-4	220	12	1778	91.8	0.84	3.2	486	290	10	3540
HJWR1400C-4	250	13	1776	92.0	0.86	3.2	486	330	10	3560
HJWR1400D-4	280	15	1776	92.7	0.87	3.2	527	340	11	3650
HJWR1400E-4	315	17	1777	92.6	0.85	3.1	575	350	11	3680
HJWR1400F-4	355	19	1777	93.0	0.85	3.1	632	357	12	3780
HJWR1400G-4	400	21	1780	93.3	0.84	3.2	703	361	13	3910
HJWR1400H-4	450	23	1777	93.4	0.86	3.1	703	408	13	3940
HJWR1450A-4	500	25	1769	93.9	0.88	2.1	575	560	16	4760
HJWR1450B-4	560	28	1770	94.3	0.88	2.1	632	568	17	4930
HJWR1450C-4	630	32	1772	94.6	0.88	2.2	703	571	19	5100
HJWR1450D-4	710	36	1775	94.9	0.88	2.3	790	568	20	5270
HJWR1500A-4	800	40	1772	94.3	0.89	1.9	767	649	28	6010
HJWR1500B-4	900	45	1774	94.7	0.89	2.0	820	681	31	6260
HJWR1500C-4	1000	50	1776	94.9	0.89	2.1	949	651	34	6420
HJWR1500D-4	1120	55	1778	95.1	0.90	2.2	1028	671	40	6700
HJWR1560A-4	1250	61	1782	95.1	0.90	2.5	973	815	60	7750
HJWR1560B-4	1400	68	1782	95.2	0.90	2.5	1054	841	69	7920
HJWR1560C-4	1600	78	1782	95.4	0.90	2.5	1150	878	69	8160
HJWR1560D-4	1800	88	1783	95.5	0.90	2.6	1265	896	73	8410
HJWR1630A-4	2000	97	1781	95.5	0.90	2.4	1437	846	100	9750
HJWR1630B-4	2240	109	1783	95.6	0.90	2.4	1536	887	109	10100
HJWR1630C-4	2500	120	1783	95.7	0.91	2.5	1775	852	125	10850
HJWR1630D-4	2800	135	1783	95.8	0.91	2.5	1922	880	134	11300
HJWR1630E-4	3150	151	1784	96.0	0.91	2.5	2103	904	150	12000
HJWR1710A-4	3150	153	1784	96.1	0.90	2.6	/	/	211	14500
HJWR1710B-4	3550	172	1784	96.2	0.90	2.6	/	/	230	15050
HJWR1710C-4	4000	193	1784	96.3	0.90	2.5	/	/	256	15600
HJWR1800A-4	4500	217	1784	96.3	0.90	2.6	/	/	288	17980
HJWR1800B-4	5000	239	1787	96.6	0.91	2.5	/	/	389	18710
HJWR1800C-4	5600	267	1787	96.7	0.91	2.6	/	/	410	19420
HJWR1900A-4	6300	302	1789	96.7	0.90	2.4	/	/	470	24500
HJWR1900B-4	7100	340	1789	96.8	0.90	2.4	/	/	505	25500
HJWR1900C-4	8000	383	1789	96.9	0.90	2.4	/	/	571	26800





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SLIPRING THREE - PHASE HIGH VOLTAGE MOTORS

Cooling Method: IC81W, Water-Air cooling

MOTEURS DE HAUTE TENSION DE TROIS PHASE

Méthode de refroidissement IC81W, eau-air de refroidissement



13.8 kV - 60 Hz - CL F - IP23

Typ	Nennleistung	N-strom 13.8 kV	Nenn- drehzahl	Wirkungs- grad	Leistungs- faktor	Kipp- moment	Rotor Spannung	Rotor Strom		Gewicht
Type	Rated output	Current 13.8 kV	Rated speed	Efficiency %	Power factor	B-down Torque	Rotor voltage	Rotor current	Jmotor	Weight
Type	Puissance nominale	Intensité 13.8 kV	Vitesse nominale	Rendement %	Facteur de puissance	Couple maximal	Voltage Rotor	Courent Rotor		Masse

	KW	A	r/min	%	cos φ	MK / MN	V	A	kg.m2	kg
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6 Polig / 6 Pole / 6 Pôles

HJWR1400A-6	200	11	1180	91.1	0.80	2.8	466	282	13	3730
HJWR1400B-6	220	12	1180	91.5	0.81	2.8	502	287	15	3860
HJWR1400C-6	250	14	1180	91.8	0.82	2.7	544	301	16	3990
HJWR1400D-6	280	16	1181	92.2	0.82	2.7	593	308	17	4120
HJWR1450A-6	315	17	1178	92.5	0.84	2.6	544	375	26	4910
HJWR1450B-6	355	19	1175	92.4	0.84	2.3	544	426	26	4940
HJWR1450C-6	400	21	1176	92.7	0.85	2.3	593	439	28	5080
HJWR1450D-6	450	24	1176	93.0	0.85	2.4	652	447	31	5250
HJWR1450E-6	500	26	1177	93.4	0.85	2.3	725	445	36	5590
HJWR1450F-6	560	29	1180	93.7	0.85	2.5	816	441	38	5760
HJWR1500A-6	630	33	1178	93.7	0.85	1.9	652	635	38	5600
HJWR1500B-6	710	37	1177	93.9	0.85	1.9	724	640	41	5800
HJWR1500C-6	800	42	1178	94.1	0.85	1.9	816	637	45	5950
HJWR1500D-6	900	47	1180	94.4	0.85	1.9	932	634	49	6250
HJWR1560A-6	1000	51	1182	94.6	0.87	2.1	932	687	56	7600
HJWR1560B-6	1120	56	1182	94.7	0.88	2.2	1087	653	94	7830
HJWR1560C-6	1250	63	1184	95.1	0.88	2.4	1243	635	107	8150
HJWR1560D-6	1400	69	1182	95.2	0.89	2.2	1305	679	135	8280
HJWR1630A-6	1600	81	1188	95.4	0.87	2.4	1148	860	163	9800
HJWR1630B-6	1800	91	1188	95.5	0.87	2.5	1261	877	174	10100
HJWR1630C-6	2000	101	1189	95.6	0.87	2.5	1404	874	198	10700
HJWR1630D-6	2240	113	1189	95.7	0.87	2.5	1580	866	221	11300
HJWR1710A-6	2500	127	1188	96.1	0.86	2.5	/	/	290	13500
HJWR1710B-6	2800	143	1189	96.2	0.85	2.5	/	/	320	14080
HJWR1710C-6	3150	160	1189	96.2	0.86	2.5	/	/	374	14760
HJWR1800A-6	3550	178	1189	96.7	0.87	2.7	/	/	492	17900
HJWR1800B-6	4000	199	1189	96.7	0.87	2.7	/	/	523	18420
HJWR1800C-6	4500	225	1190	96.8	0.87	2.6	/	/	557	19100
HJWR1900A-6	5000	248	1190	96.3	0.88	2.5	/	/	635	22900
HJWR1900B-6	5600	277	1192	96.5	0.88	2.5	/	/	702	23450
HJWR1900C-6	6300	310	1192	96.6	0.88	2.5	/	/	780	24100
HJWR11000A-6	7100	351	1192	97.0	0.87	2.5	/	/	1080	30600
HJWR11000B-6	8000	394	1193	97.2	0.88	2.5	/	/	1250	31870





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Typ	Nennleistung	N-strom 13.8 kV	Nenn- drehzahl	Wirkungs- grad	Leistungs- faktor	Kipp- moment	Rotor Spannung	Rotor Strom		Gewicht
Type	Rated output	Current 13.8 kV	Rated speed	Efficiency %	Power factor	B-down Torque	Rotor voltage	Rotor current	Jmotor	Weight
Type	Puissance nominale	Intensité 13.8 kV	Vitesse nominale	Rendement %	Facteur de puissance	Couple maximal	Voltage Rotor	Courant Rotor		Masse
	KW	A	r/min	%	cos φ	MK / MN	V	A	kg.m2	kg

8 Polig / 8 Poles / 8 Pôles

HJWR1450A-8	200	11	882	92.1	0.81	2.6	488	267	27	4530
HJWR1450B-8	220	12	880	92.0	0.82	2.3	488	296	27	4560
HJWR1450C-8	250	14	877	91.9	0.83	2.0	488	341	27	4580
HJWR1450D-8	280	15	876	92.0	0.83	2.0	526	354	29	4700
HJWR1450E-8	315	17	876	92.3	0.83	1.9	570	368	32	4870
HJWR1450F-8	355	19	877	92.5	0.83	1.9	622	379	35	5040
HJWR1450G-8	400	21	877	92.8	0.84	1.9	684	388	37	5210
HJWR1450H-8	450	24	878	93.0	0.83	2.0	760	391	40	5380
HJWR1500A-8	500	28	884	93.1	0.81	1.8	725	454	53	5910
HJWR1500B-8	560	31	884	93.5	0.81	1.8	816	449	58	6050
HJWR1500C-8	630	35	886	93.8	0.81	1.8	932	438	68	6350
HJWR1500D-8	710	39	887	94.0	0.81	1.8	1087	421	78	6530
HJWR1560A-8	800	43	887	94.2	0.82	2.0	932	494	91	7780
HJWR1560B-8	900	48	887	94.4	0.84	2.1	1004	518	112	7920
HJWR1560C-8	1000	53	887	94.7	0.84	2.1	1087	537	120	8080
HJWR1560D-8	1120	60	887	94.8	0.83	2.1	1186	547	128	8330
HJWR1630A-8	1250	65	888	94.6	0.85	2.3	1137	677	179	8750
HJWR1630B-8	1400	73	888	94.8	0.85	2.3	1255	687	203	9400
HJWR1630C-8	1600	83	889	94.9	0.85	2.4	1396	706	227	10050
HJWR1630D-8	1800	93	889	95.1	0.85	2.5	1570	703	251	10650
HJWR1710A-8	1800	95	890	95.8	0.83	2.5	/	/	355	12600
HJWR1710B-8	2000	106	890	95.8	0.83	2.5	/	/	359	13000
HJWR1710C-8	2240	118	890	95.9	0.83	2.5	/	/	375	13420
HJWR1800A-8	2500	130	892	96.3	0.84	2.5	/	/	497	18060
HJWR1800B-8	2800	146	892	96.3	0.83	2.5	/	/	539	18530
HJWR1800C-8	3150	165	892	96.4	0.83	2.5	/	/	598	18900
HJWR1900A-8	3550	181	893	97.0	0.85	2.4	/	/	801	22950
HJWR1900B-8	4000	203	893	97.1	0.85	2.4	/	/	871	23460
HJWR1900C-8	4500	229	893	97.2	0.85	2.5	/	/	1066	23930
HJWR11000A-8	5000	252	892	97.2	0.86	2.4	/	/	1330	25400
HJWR11000B-8	5600	281	892	97.3	0.86	2.4	/	/	1480	26160
HJWR11000C-8	6300	316	892	97.3	0.86	2.5	/	/	1584	27330





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13.8 kV - 60 Hz - CL F - IP23

Typ	Nennleistung	N-strom 13.8 kV	Nenn- drehzahl	Wirkungs- grad	Leistungs- faktor	Kipp- moment	Rotor Spannung	Rotor Strom		Gewicht
Type	Rated output	Current 13.8 kV	Rated speed	Efficiency %	Power factor	B-down Torque	Rotor voltage	Rotor current	Jmotor	Weight
Type	Puissance nominale	Intensité 13.8 kV	Vitesse nominale	Rendement %	Facteur de puissance	Couple maximal	Voltage Rotor	Courent Rotor		Masse
	KW	A	r/min	%	cos φ	MK / MN	V	A	kg.m2	kg

10 Polig / 10 Poles / 10 Pôles

HJWR1450A-10	200	13	703	91.3	0.70	2.5	507	267	30	4610
HJWR1450B-10	220	14	703	91.5	0.71	2.5	543	274	32	4780
HJWR1450C-10	250	16	703	91.6	0.73	2.4	585	289	35	4950
HJWR1450D-10	280	18	703	91.8	0.73	2.3	633	299	38	5120
HJWR1450E-10	315	20	703	92.0	0.72	2.3	691	309	40	5290
HJWR1450F-10	355	22	703	92.2	0.73	2.3	631	352	42	5440
HJWR1500A-10	400	24	702	92.1	0.75	2.0	633	383	65	6020
HJWR1500B-10	450	27	702	92.6	0.75	1.9	691	395	69	6190
HJWR1500C-10	500	30	703	92.8	0.75	2.0	760	404	74	6320
HJWR1500D-10	560	33	703	93.1	0.76	1.9	845	450	83	6450
HJWR1560A-10	630	36	708	93.2	0.79	2.3	1087	379	119	7730
HJWR1560B-10	710	40	708	93.4	0.79	2.3	1186	392	127	7980
HJWR1560C-10	800	44	708	93.7	0.81	2.2	1305	401	144	8200
HJWR1560D-10	900	50	709	93.8	0.80	2.3	1450	405	152	8420
HJWR1630A-10	1000	54	706	94.3	0.82	2.4	1241	492	211	8900
HJWR1630B-10	1120	61	707	94.5	0.82	2.4	1382	494	237	9350
HJWR1630C-10	1250	67	707	94.7	0.83	2.5	1554	488	263	9900
HJWR1630D-10	1400	75	709	94.8	0.83	2.5	1781	476	303	10600
HJWR1630E-10	1600	85	710	95.0	0.83	2.5	2082	464	356	11700
HJWR1710A-10	1600	85	712	94.8	0.83	2.6	/	/	412	13400
HJWR1710B-10	1800	96	710	94.9	0.83	2.6	/	/	488	13800
HJWR1710C-10	2000	106	713	94.9	0.84	2.6	/	/	524	14250
HJWR1800A-10	2240	121	710	95.2	0.82	2.4	/	/	566	18400
HJWR1800B-10	2500	134	710	95.3	0.82	2.4	/	/	613	18960
HJWR1800C-10	2800	150	710	95.4	0.82	2.4	/	/	684	19600
HJWR1900A-10	3150	166	712	95.8	0.83	2.4	/	/	855	21800
HJWR1900B-10	3550	187	713	95.9	0.83	2.4	/	/	997	22340
HJWR1900C-10	4000	210	713	95.8	0.83	2.5	/	/	1150	23030
HJWR11000A-10	4500	236	710	96.0	0.83	2.5	/	/	1350	24450
HJWR11000B-10	5000	262	712	96.1	0.83	2.5	/	/	1470	25020
HJWR11000C-10	5600	294	712	96.1	0.83	2.5	/	/	1555	25990





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13.8 kV - 60 Hz - CL F - IP23

Typ	Nennleistung	N-strom 13.8 kV	Nenn- drehzahl	Wirkungs- grad	Leistungs- faktor	Kipp- moment	Rotor Spannung	Rotor Strom		Gewicht
Type	Rated output	Current 13.8 kV	Rated speed	Efficiency %	Power factor	B-down Torque	Rotor voltage	Rotor current	Jmotor	Weight
Type	Puissance nominale	Intensité 13.8 kV	Vitesse nominale	Rendement %	Facteur de puissance	Couple maximal	Voltage Rotor	Courent Rotor		Masse
	KW	A	r/min	%	cos φ	MK / MN	V	A	kg.m2	kg

12 Polig / 12 Poles / 12 Pôles

HJWR1500A-12	200	13	586	90.4	0.72	2.3	495	248	50	5620
HJWR1500B-12	220	14	586	90.7	0.73	2.3	543	250	55	5790
HJWR1500C-12	250	16	586	91.0	0.73	2.2	585	255	60	5880
HJWR1500D-12	280	18	586	91.3	0.73	2.2	633	268	65	6000
HJWR1500E-12	315	20	587	91.4	0.73	2.2	691	275	70	6120
HJWR1500F-12	355	22	587	91.9	0.74	2.2	760	281	75	6240
HJWR1500G-12	400	25	587	92.0	0.74	2.2	844	284	85	6410
HJWR1560A-12	450	28	588	92.0	0.74	2.4	760	351	114	7280
HJWR1560B-12	500	31	588	92.2	0.73	2.4	844	354	123	7780
HJWR1560C-12	560	34	589	92.5	0.74	2.5	950	348	142	7810
HJWR1560D-12	630	37	588	92.6	0.76	2.2	950	394	152	8280
HJWR1560E-12	710	42	588	92.9	0.76	2.3	1085	385	161	8420
HJWR1630A-12	800	45	587	92.9	0.80	2.4	1238	398	257	9150
HJWR1630B-12	900	51	588	93.1	0.80	2.5	1378	402	287	9600
HJWR1630C-12	1000	56	588	93.3	0.80	2.5	1549	395	316	10150
HJWR1630D-12	1120	63	589	93.5	0.80	2.5	1774	385	363	10750
HJWR1710A-12	1120	60	590	95.1	0.82	2.6	/	/	368	12820
HJWR1710B-12	1250	67	590	95.1	0.82	2.6	/	/	408	13190
HJWR1710C-12	1400	75	592	95.2	0.82	2.6	/	/	452	13710
HJWR1710D-12	1600	86	592	95.2	0.82	2.6	/	/	513	14230
HJWR1800A-12	1800	97	590	95.3	0.82	2.4	/	/	650	17890
HJWR1800B-12	2000	108	593	95.3	0.82	2.4	/	/	708	18310
HJWR1800C-12	2240	120	592	95.4	0.82	2.4	/	/	788	19330
HJWR1900A-12	2500	135	593	95.4	0.82	2.1	/	/	911	22960
HJWR1900B-12	2800	151	593	95.5	0.82	2.2	/	/	984	23370
HJWR1900C-12	3150	169	593	95.5	0.82	2.2	/	/	1100	24160
HJWR11000A-12	3550	188	592	95.9	0.82	2.4	/	/	1459	24750
HJWR11000B-12	4000	212	593	96.0	0.83	2.5	/	/	1570	25140
HJWR11000C-12	4500	237	593	96.1	0.83	2.5	/	/	1741	25980
HJWR11000D-12	5000	264	593	96.2	0.83	2.5	/	/	1913	26700





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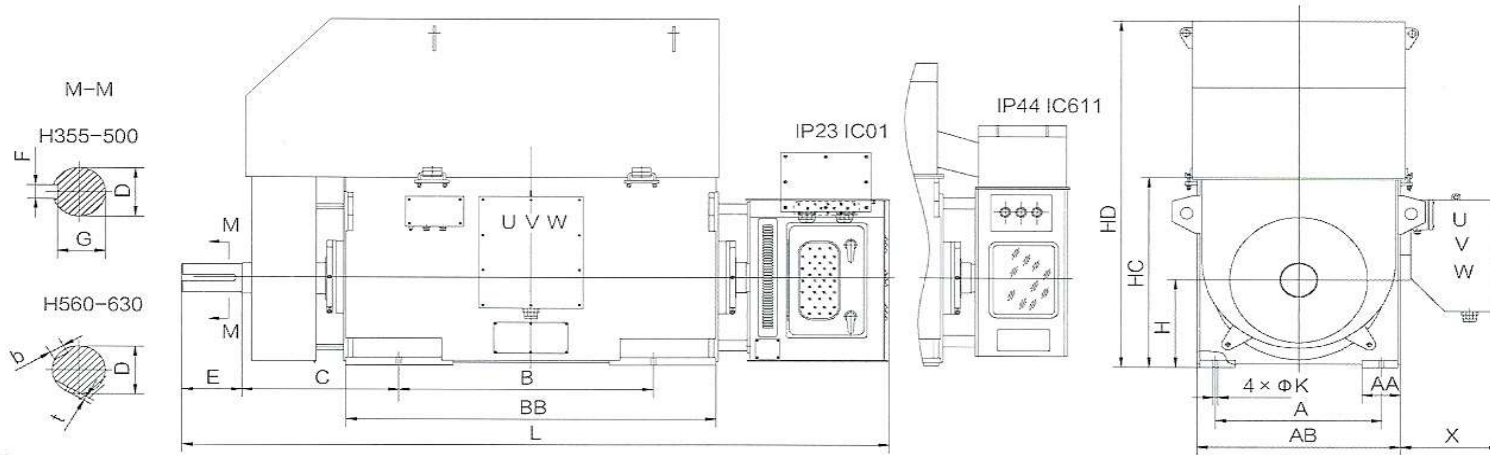


13.8 kV - 60 Hz - CL F - IP23

Typ	Nennleistung	N-strom 13.8 kV	Nenn- drehzahl	Wirkungs- grad	Leistungs- faktor	Kipp- moment	Rotor Spannung	Rotor Strom	J Motor	Gewicht
Type	Rated output	Current 13.8 kV	Rated speed	Efficiency %	Power factor	B-down Torque	Rotor voltage	Rotor current		Weight
Type	Puissance nominale	Intensité 13.8 kV	Vitesse nominale	Rendement %	Facteur de puissance	Couple maximal	Voltage Rotor	Courent Rotor		Masse
	KW	A	r/min	%	cos φ	MK / MN	V	A	kg.m2	kg
16 Polig / 16 Poles / 16 Pôles										
HJWR1710A-16	630	40	439	92.1	0.72	2.3	/	/	427	12620
HJWR1710B-16	710	45	439	92.2	0.72	2.3	/	/	470	12990
HJWR1710C-16	800	50	439	92.4	0.72	2.3	/	/	534	13510
HJWR1710D-16	900	57	439	92.5	0.72	2.3	/	/	598	13930
HJWR1800A-16	1000	61	439	93.3	0.74	2.3	/	/	760	17590
HJWR1800B-16	1120	68	439	93.5	0.74	2.3	/	/	888	18010
HJWR1800C-16	1250	76	440	93.6	0.74	2.3	/	/	1002	18730
HJWR1900A-16	1400	80	442	94.2	0.78	2.1	/	/	1138	22760
HJWR1900B-16	1600	91	442	94.3	0.78	2.2	/	/	1289	23170
HJWR1900C-16	1800	103	442	94.3	0.78	2.2	/	/	1332	24060
HJWR1900D-16	2000	112	443	94.4	0.79	2.3	/	/	1419	24550
HJWR11000A-16	2240	124	443	94.6	0.80	2.3	/	/	1459	25140
HJWR11000B-16	2500	138	443	94.8	0.80	2.3	/	/	1570	25680
HJWR11000C-16	2800	153	443	95.1	0.80	2.4	/	/	1741	26500
HJWR11000D-16	3150	172	443	95.3	0.81	2.4	/	/	1913	27120

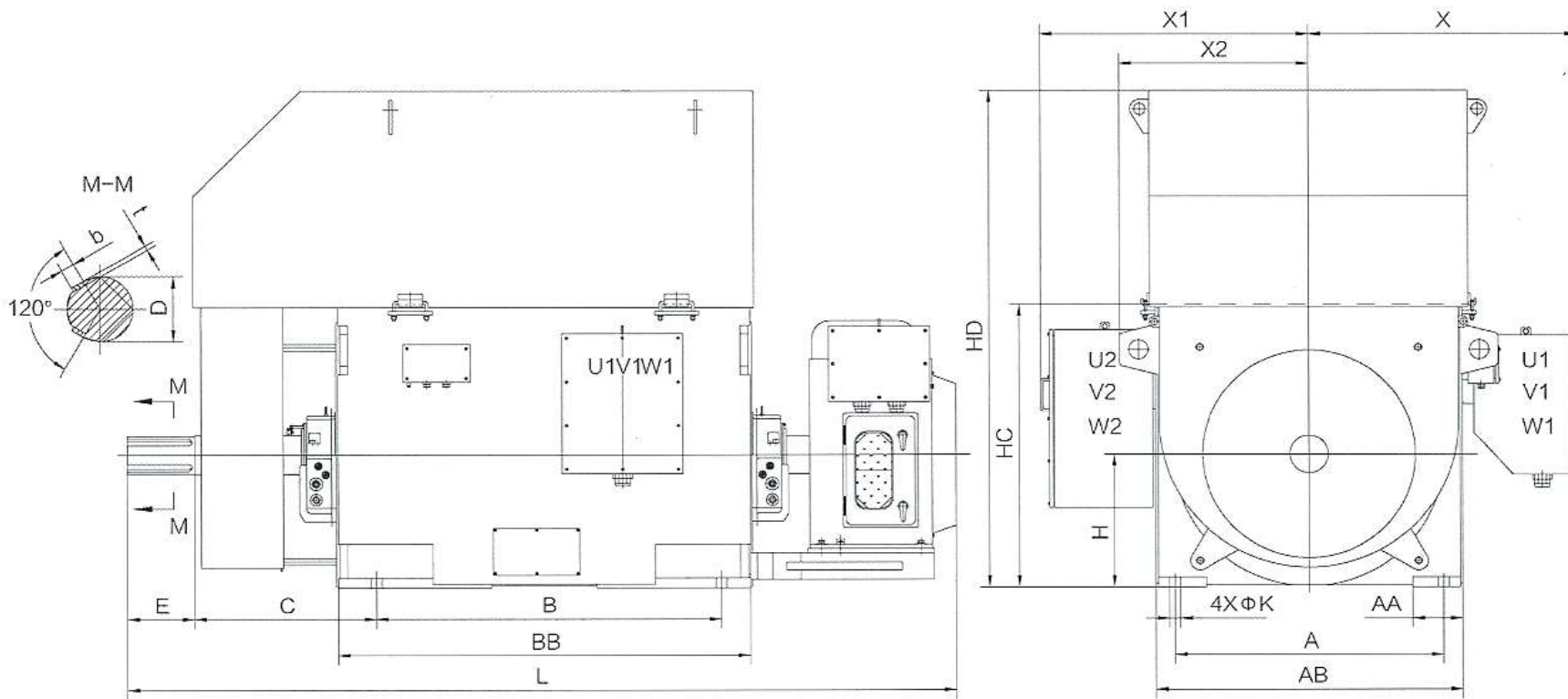


Overall mounting dimensions for HJSR (13.8 kV) series of slipring high-voltage three-phase motors.



Frame	A	AB	B	AA	BB	C	D	E	F	G	t	b	H	K	HC	HD	L	X
HJSR1355-4	630	800	900	160	1420	560	100	210	28	90	/	/	355	28	755	1600	2750	445
HJSR1400-4-8	710	900	1000	170	1570	630	110	210	28	100	/	/	400	35	850	1850	2940	445
HJSR1450-4	800	1000	1120	190	1720	670	120	210	32	109	/	/	450	35	950	2050	3185	445
HJSR1450-6-12	800	1000	1120	190	1720	670	130	250	32	119	/	/	450	35	950	2050	3185	445
HJSR1500-4	900	1120	1250	200	1820	710	130	250	32	119	/	/	500	42	1060	2260	3355	445
HJSR1500-6-12	900	1120	1250	200	1820	710	140	250	36	128	/	/	500	42	1060	2260	3355	445
HJSR1560-4	1000	1250	1400	230	1970	800	150	250	/	/	11.4	39.7	560	42	1185	2485	3650	510
HJSR1560-6-12	1000	1250	1400	230	1970	800	160	300	/	/	12.4	42.8	560	42	1185	2485	3650	510
HJSR1630-4	1120	1400	1600	240	2120	900	170	300	/	/	12.4	44.2	630	48	1330	2735	3810	510
HJSR1630-6-12	1120	1400	1600	240	2120	900	180	300	/	/	12.4	45.6	630	48	1330	2735	3810	510

Overall mounting dimensions for HJSR (13.8 kV) series of slipring high-voltage three-phase motors.



Frame	A	B	C	AB	AA	BB	D	E	b	t	H	K	HC	HD	L	X	X1/X2
HJSR1710-4..16	1400	1800	1000	1600	262	2150/2330	200	350	51	14	710	56	1510	2800	4630	1400	1400/990
HJSR1800-4..16	1600	2000	1080	1800	292	2350/2500	220	350	57.1	16	800	56	1700	3100	4880	1500	1500/1090
HJSR1900-4..16	1800	2000/2200	1200	2000	302	2500/2700	250	410	64.6	18	900	66	1912	3600	5240	1600	1600/1188
HJSR11000-4..16	2000	2000/2200	1400	2240	332	2500/2700	280	470	72.1	20	1000	66	2120	3800	5500	1720	1720/1308

Remark:

The size X2 is for the motor below 2000 kW with one T-box only, X1 is for the one above 2000 kW, with two T-boxes.

The size BB differs depending on the output of the motor.