



## SCHLEIFRING DREHSTROM-HOCHSPANNUNGS-MOTOREN

Kühlart: IC611, Luft-Luft-Kühlung

## SLIP RING THREE - PHASE HIGH VOLTAGE MOTORS

Cooling Method: IC611, Air-Air

## MOTEURS DE HAUTE TENSION DE TROIS PHASE

Méthode de refroidissement IC611, air-air de refroidissement



### 11kV - 50 Hz - CL F - IP23

Typ	Nennleistung	N-strom 11 kV	Nenn-drehzahl	Wirkungs-grad	Leistungs-faktor	Kipp-moment	Rotor Spannung	Rotor Strom		Gewicht
Type	Rated output	Current 11 kV	Rated speed	Efficiency %	Power factor	B-down Torque	Rotor voltage	Rotor current	Jmotor	Weight
Type	Puissance nominale	Intensité 11 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

HJSR400A-4	200	15	1482	90.8	0.86	2.6	486	266	11	3700
HJSR400B-4	220	16	1481	91.1	0.87	2.5	486	293	11	3730
HJSR400C-4	250	19	1482	91.4	0.86	2.5	527	306	11	3750
HJSR400D-4	280	22	1483	91.4	0.83	2.4	575	314	11	3780
HJSR400E-4	315	24	1484	91.9	0.83	2.4	632	319	12	3830
HJSR400F-4	355	27	1484	92.3	0.83	2.4	703	323	13	3960
HJSR400G-4	400	30	1483	92.7	0.84	2.4	703	364	13	3990
HJSR450A-4	450	32	1477	93.6	0.88	2.3	575	500	16	4860
HJSR450B-4	500	35	1478	93.7	0.88	2.4	632	503	17	5030
HJSR450C-4	560	40	1480	93.9	0.88	2.5	703	504	19	5200
HJSR450D-4	630	44	1480	94.0	0.88	2.4	768	510	20	5400
HJSR500A-4	710	51	1481	94.3	0.88	2.5	632	639	29	6300
HJSR500B-4	800	56	1479	94.6	0.89	2.6	790	575	33	6400
HJSR500C-4	900	62	1480	94.7	0.89	2.7	843	605	35	6560
HJSR500D-4	1000	69	1481	94.8	0.89	2.7	973	585	42	6720
HJSR560A-4	1120	79	1486	94.8	0.89	2.8	973	725	60	8000
HJSR560B-4	1250	87	1486	94.9	0.87	2.7	1054	744	70	8260
HJSR560C-4	1400	97	1487	95.0	0.88	2.8	1150	763	70	8510
HJSR560D-4	1600	109	1487	95.1	0.88	2.9	1265	789	74	8740
HJSR630A-4	1800	123	1486	95.2	0.89	2.5	1437	759	100	10650
HJSR630B-4	2000	136	1486	95.3	0.89	2.5	1536	788	109	11100
HJSR630C-4	2240	152	1487	95.5	0.89	2.5	1775	761	125	11750
HJSR630D-4	2500	170	1488	95.6	0.89	2.5	1922	783	134	12250
HJSR630E-4	2800	190	1488	95.7	0.89	2.5	2103	801	150	13000
HJSR710A-4	2800	188	1491	96.0	0.90	2.6	/	/	223	14160
HJSR710B-4	3150	211	1491	96.3	0.90	2.6	/	/	257	14730
HJSR710C-4	3550	235	1491	96.3	0.90	2.6	/	/	287	15550
HJSR800A-4	4000	267	1492	96.5	0.90	2.6	/	/	318	18600
HJSR800B-4	4500	299	1492	96.7	0.90	2.7	/	/	402	19370
HJSR800C-4	5000	330	1493	96.9	0.90	2.9	/	/	506	20150
HJSR900A-4	5600	364	1493	96.8	0.91	3.0	/	/	553	25200
HJSR900B-4	6300	408	1493	97.0	0.91	3.0	/	/	598	25930
HJSR900C-4	7100	459	1492	97.1	0.91	2.9	/	/	684	26510





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Cooling Method: IC611, Air-Air

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Méthode de refroidissement IC611, air-air de refroidissement



### 11kV - 50 Hz - CL F - IP23

Typ	Nennleistung	N-strom 11 kV	Nenn- drehzahl	Wirkungs- grad	Leistungs- faktor	Kipp- moment	Rotor Spannung	Rotor Strom		Gewicht
Type	Rated output	Current 11 kV	Rated speed	Efficiency %	Power factor	B-down Torque	Rotor voltage	Rotor current	Jmotor	Weight
Type	Puissance nominale	Intensité 11 kV	Vitesse nominale	Rendement %	Facteur de puissance	Couple maximal	Voltage Rotor	Courent Rotor		Masse
	KW	A	r/min	%	cos $\varphi$	MK / MN	V	A	kg.m2	kg

### 6 Polig / 6 Poles / 6 Pôles

HJSR400A-6	200	16	983	90.6	0.80	2.8	466	284	13	3780
HJSR400B-6	220	18	983	91.3	0.81	2.6	502	288	16	4040
HJSR400C-6	250	20	983	91.5	0.82	2.7	544	302	16	4180
HJSR450A-6	280	21	984	92.1	0.85	3.0	544	331	26	4800
HJSR450B-6	315	23	982	92.2	0.86	2.6	544	375	26	5010
HJSR450C-6	355	24	981	92.3	0.86	2.4	593	387	31	5040
HJSR450D-6	400	30	982	92.5	0.86	2.5	652	395	33	5350
HJSR450E-6	450	33	983	92.7	0.86	2.6	725	398	36	5520
HJSR450F-6	500	36	983	92.8	0.86	2.5	697	449	37	5690
HJSR500A-6	560	41	985	94.1	0.85	2.3	652	555	45	6100
HJSR500B-6	630	46	986	94.3	0.84	2.4	725	659	49	6300
HJSR500C-6	710	51	987	94.7	0.85	2.4	816	558	56	6550
HJSR500D-6	800	58	984	94.8	0.85	2.5	932	550	58	6750
HJSR560A-6	900	64	983	94.5	0.87	2.3	932	619	94	7650
HJSR560B-6	1000	71	985	94.4	0.87	2.4	1088	585	108	8050
HJSR560C-6	1120	80	987	94.8	0.87	2.2	1243	570	125	8420
HJSR560D-6	1250	88	986	95.0	0.87	2.6	1305	605	132	8600
HJSR630A-6	1400	98	989	95.2	0.87	2.4	1148	746	163	10700
HJSR630B-6	1600	111	990	95.3	0.87	2.4	1261	774	174	11000
HJSR630C-6	1800	125	990	95.4	0.87	2.5	1404	782	198	11650
HJSR630D-6	2000	139	990	95.6	0.87	2.5	1580	769	221	12300
HJSR710A-6	2240	157	992	96.5	0.84	3.5	/	/	325	13700
HJSR710B-6	2500	174	992	96.6	0.84	3.5	/	/	381	14350
HJSR710C-6	2800	197	992	96.7	0.84	3.5	/	/	422	15200
HJSR800A-6	3150	222	992	96.9	0.85	3.1	/	/	418	18450
HJSR800B-6	3550	249	992	97.0	0.85	3.0	/	/	470	19180
HJSR800C-6	4000	279	992	96.9	0.85	3.1	/	/	523	19850
HJSR900A-6	4500	309	991	96.4	0.87	2.7	/	/	560	23920
HJSR900B-6	5000	343	991	96.4	0.87	2.8	/	/	630	24400
HJSR900C-6	5600	381	991	96.5	0.88	2.7	/	/	707	25200
HJSR1000A-6	6300	427	994	97.3	0.88	2.5	/	/	1150	31620
HJSR1000B-6	7100	480	994	97.3	0.88	2.5	/	/	1293	32530





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Type	Rated output	Current 11 kV	Rated speed	Efficiency %	Power factor	B-down Torque	Rotor voltage	Rotor current	Jmotor	Weight
Type	Puissance nominale	Intensité 11 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

### 8 Polig / 8 Pole / 8 Pôles

HJSR450A-8	200	16	735	91.7	0.81	2.6	488	267	27	4630
HJSR450B-8	220	17	735	91.8	0.82	2.5	526	272	29	4800
HJSR450C-8	250	19	735	92.0	0.83	2.4	570	285	33	4970
HJSR450D-8	280	21	735	92.2	0.83	2.4	622	292	35	5140
HJSR450E-8	315	24	736	92.4	0.83	2.5	684	298	37	5310
HJSR450F-8	355	27	736	92.5	0.81	2.6	760	302	40	5480
HJSR450G-8	400	30	736	92.6	0.82	2.5	681	367	41	5650
HJSR500A-8	450	34	739	93.4	0.81	2.1	652	407	51	6110
HJSR500B-8	500	38	738	93.8	0.82	2.3	725	409	60	6250
HJSR500C8	560	41	738	94.1	0.82	2.4	816	402	65	6550
HJSR500D-8	630	45	739	94.3	0.82	2.4	932	392	74	6850
HJSR560A-8	710	53	738	94.1	0.83	2.4	933	492	112	7900
HJSR560B-8	800	59	738	94.2	0.82	2.4	1004	456	120	8150
HJSR560C-8	900	67	738	94.4	0.83	2.4	1087	473	128	8330
HJSR560D-8	1000	71	738	95.5	0.83	2.4	1186	489	133	8580
HJSR630A-8	1120	81	741	94.4	0.85	2.5	1138	602	179	9800
HJSR630B-8	1250	90	741	94.6	0.85	2.5	1255	609	203	10300
HJSR630C-8	1400	100	741	94.8	0.85	2.5	1396	612	227	10900
HJSR630D-8	1600	114	742	95.0	0.85	2.5	1570	621	251	11450
HJSR710A-8	1600	118	743	95.8	0.82	2.7	/	/	349	13850
HJSR710B-8	1800	133	743	96.0	0.82	2.7	/	/	381	14380
HJSR710C-8	2000	147	743	96.1	0.82	2.7	/	/	402	14940
HJSR800A-8	2240	163	744	96.2	0.83	2.7	/	/	538	18750
HJSR800B-8	2500	182	744	96.4	0.82	2.7	/	/	610	19280
HJSR800C-8	2800	202	744	96.4	0.82	2.7	/	/	703	19910
HJSR900A-8	3150	225	744	96.6	0.83	2.8	/	/	840	24060
HJSR900B-8	3550	254	744	96.7	0.83	2.8	/	/	929	24820
HJSR900C-8	4000	280	743	96.9	0.83	2.8	/	/	1123	25470
HJSR1000A-8	4500	318	744	96.9	0.84	2.9	/	/	1268	27940
HJSR1000B-8	5000	351	744	97.0	0.84	2.9	/	/	1373	28870
HJSR1000C-8	5600	394	744	97.0	0.85	2.9	/	/	1479	29740





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#### 11kV - 50 Hz - CL F - IP23

Typ	Nennleistung	N-strom 11 kV	Nenn-drehzahl	Wirkungs-grad	Leistungs-faktor	Kipp-moment	Rotor Spannung	Rotor Strom		Gewicht
Type	Rated output	Current 11 kV	Rated speed	Efficiency %	Power factor	B-down Torque	Rotor voltage	Rotor current	Jmotor	Weight
Type	Puissance nominale	Intensité 11 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 Pole / 10 Pôles

HJSR450A-10	200	19	587	90.1	0.69	2.7	543	248	32	4880
HJSR450B-10	220	21	587	90.5	0.70	2.7	585	252	35	5050
HJSR450C-10	250	23	587	90.8	0.71	2.6	633	265	38	5220
HJSR450D-10	280	26	588	91.1	0.70	2.6	691	272	40	5390
HJSR450E-10	315	29	588	91.2	0.70	2.5	742	265	41	5600
HJSR500A-10	355	31	590	92.1	0.74	2.2	633	336	60	6220
HJSR500B-10	400	35	590	92.3	0.73	2.2	691	347	65	6330
HJSR500C-10	450	38	591	92.6	0.75	2.1	760	356	70	6560
HJSR500D-10	500	42	590	92.5	0.75	2.2	844	359	80	6760
HJSR560A-10	560	45	591	93.4	0.77	2.6	1087	336	126	7850
HJSR560B-10	630	51	592	93.6	0.77	2.6	1186	347	130	8040
HJSR560C-10	710	56	592	93.8	0.78	2.5	1305	354	138	8510
HJSR560D-10	800	62	591	93.9	0.79	2.5	1450	357	155	8720
HJSR630A-10	900	66	590	94.5	0.83	2.4	1241	439	211	9800
HJSR630B-10	1000	74	591	94.7	0.83	2.4	1382	437	237	10250
HJSR630C-10	1120	82	591	94.9	0.83	2.4	1554	434	263	10800
HJSR630D-10	1250	91	592	95.1	0.83	2.4	1781	422	303	11550
HJSR630E-10	1400	102	592	95.2	0.83	2.5	2082	403	356	12100
HJSR710A-10	1400	103	592	95.0	0.83	2.7	/	/	441	13720
HJSR710B-10	1600	117	593	95.0	0.83	2.6	/	/	481	14250
HJSR710C-10	1800	132	593	95.1	0.83	2.6	/	/	535	14960
HJSR800A-10	2000	149	593	95.2	0.81	2.6	/	/	566	18730
HJSR800B-10	2240	168	594	95.3	0.81	2.6	/	/	613	19310
HJSR800C-10	2500	186	594	95.3	0.81	2.7	/	/	684	19840
HJSR900A-10	2800	207	594	95.4	0.82	2.6	/	/	873	23460
HJSR900B-10	3150	233	594	95.4	0.82	2.6	/	/	984	23980
HJSR900C-10	3550	259	593	95.5	0.82	2.7	/	/	1026	24500
HJSR1000A-10	4000	291	594	96.2	0.82	2.7	/	/	963	27450
HJSR1000B-10	4500	326	594	96.2	0.83	2.6	/	/	1061	28130
HJSR1000C-10	5000	363	594	96.4	0.82	2.7	/	/	1254	29250





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**11kV - 50 Hz - CL F - IP23**

Typ	Nennleistung	N-strom 11 kV	Nenn-drehzahl	Wirkungs-grad	Leistungs-faktor	Kipp-moment	Rotor Spannung	Rotor Strom		Gewicht
Type	Rated output	Current 11 kV	Rated speed	Efficiency %	Power factor	B-down Torque	Rotor voltage	Rotor current	Jmotor	Weight
Type	Puissance nominale	Intensité 11 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 Pole / 12 Pôles**

HJSR500A-12	200	18	489	90.8	0.71	2.5	541	228	55	5970
HJSR500B-12	220	20	490	91.1	0.72	2.5	585	230	60	6080
HJSR500C-12	250	23	490	91.4	0.72	2.5	633	233	65	6190
HJSR500D-12	280	25	490	91.5	0.72	2.5	691	243	70	6290
HJSR500E-12	315	28	490	91.9	0.72	2.5	760	247	75	6510
HJSR500F-12	355	31	490	91.8	0.72	2.5	844	250	85	6750
HJSR560A-12	400	33	489	92.1	0.76	2.3	691	343	124	7950
HJSR560B-12	450	37	489	92.4	0.76	2.3	760	351	133	8130
HJSR560C-12	500	42	490	92.7	0.75	2.3	844	354	143	8330
HJSR560D-12	560	47	491	93.1	0.75	2.4	950	349	171	8530
HJSR560E-12	630	52	491	93.3	0.75	2.5	1085	340	180	8710
HJSR630A-12	710	56	490	93.0	0.79	2.5	1238	350	257	10050
HJSR630B-12	800	63	491	93.2	0.79	2.5	1378	354	287	10500
HJSR630C-12	900	70	491	93.4	0.79	2.5	1549	353	317	11100
HJSR630D-12	1000	78	491	93.6	0.79	2.5	1774	342	363	11750
HJSR710A-12	1000	74	492	95.1	0.82	2.6	/	/	399	13470
HJSR710B-12	1120	83	492	95.1	0.82	2.6	/	/	448	13980
HJSR800A-12	1400	103	492	95.3	0.82	2.6	/	/	519	14560
HJSR800B-12	1600	120	493	95.3	0.81	2.6	/	/	659	18130
HJSR800C-12	1800	134	493	95.4	0.81	2.7	/	/	717	18870
HJSR900A-12	2000	149	493	95.3	0.82	2.7	/	/	793	19490
HJSR900B-12	2240	169	493	95.4	0.80	2.6	/	/	997	23640
HJSR900C-12	2500	188	494	95.4	0.80	2.6	/	/	1181	24320
HJSR900D-12	2800	211	494	95.5	0.80	2.5	/	/	1299	25220
HJSR1000A-12	3150	235	494	95.9	0.81	2.6	/	/	1440	26800
HJSR1000B-12	3550	264	494	96.1	0.81	2.6	/	/	1571	27450
HJSR1000C-12	4000	299	494	96.3	0.81	2.6	/	/	1742	28520
HJSR1000D-12	4500	337	494	96.3	0.81	2.5	/	/	1917	29430





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11 kV - 50 Hz - CL F - IP23

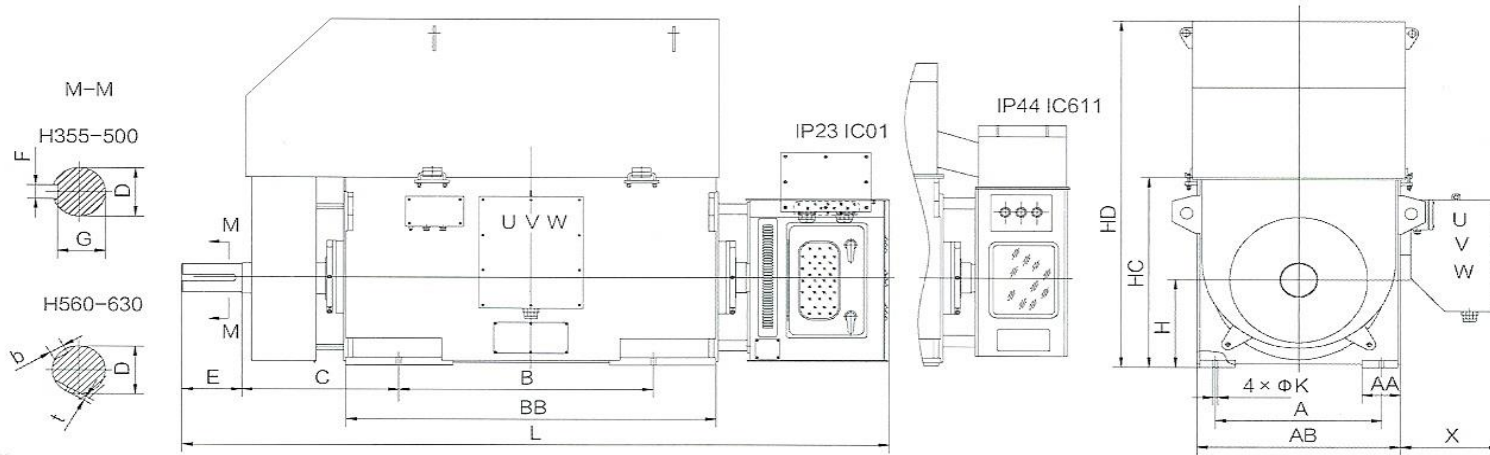
Typ	Nennleistung	N-strom 11 kV	Nenn- drehzahl	Wirkungs- grad	Leistungs- faktor	Kipp- moment	Rotor Spannung	Rotor Strom	J Motor	Gewicht
Type	Rated output	Current 11 kV	Rated speed	Efficiency %	Power factor	B-down Torque	Rotor voltage	Rotor current		Weight
Type	Puissance nominale	Intensité 11 kV	Vitesse 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

HJSR710A-16	630	56	366	92.1	0.71	2.6	/	/	429	12900
HJSR710B-16	710	63	366	92.3	0.71	2.6	/	/	548	13270
HJSR710C-16	800	70	367	92.4	0.72	2.6	/	/	643	13680
HJSR710D-16	900	79	367	92.7	0.72	2.6	/	/	730	14360
HJSR800A-16	1000	84	367	93.3	0.74	2.6	/	/	759	17930
HJSR800B-16	1120	94	367	93.4	0.74	2.7	/	/	897	18670
HJSR800C-16	1250	103	368	93.6	0.75	2.7	/	/	1023	19390
HJSR900A-16	1400	113	368	94.4	0.76	2.6	/	/	1197	23270
HJSR900B-16	1600	128	369	94.4	0.76	2.6	/	/	1381	23820
HJSR900C-16	1800	144	369	94.5	0.76	2.5	/	/	1499	24720
HJSR1000A-16	2000	155	370	94.9	0.79	2.6	/	/	1761	26700
HJSR1000B-16	2240	172	370	95.1	0.79	2.6	/	/	1914	27350
HJSR1000C-16	2500	191	370	95.2	0.80	2.6	/	/	2144	28220
HJSR1000D-16	2800	213	370	95.3	0.80	2.6	/	/	2450	29030



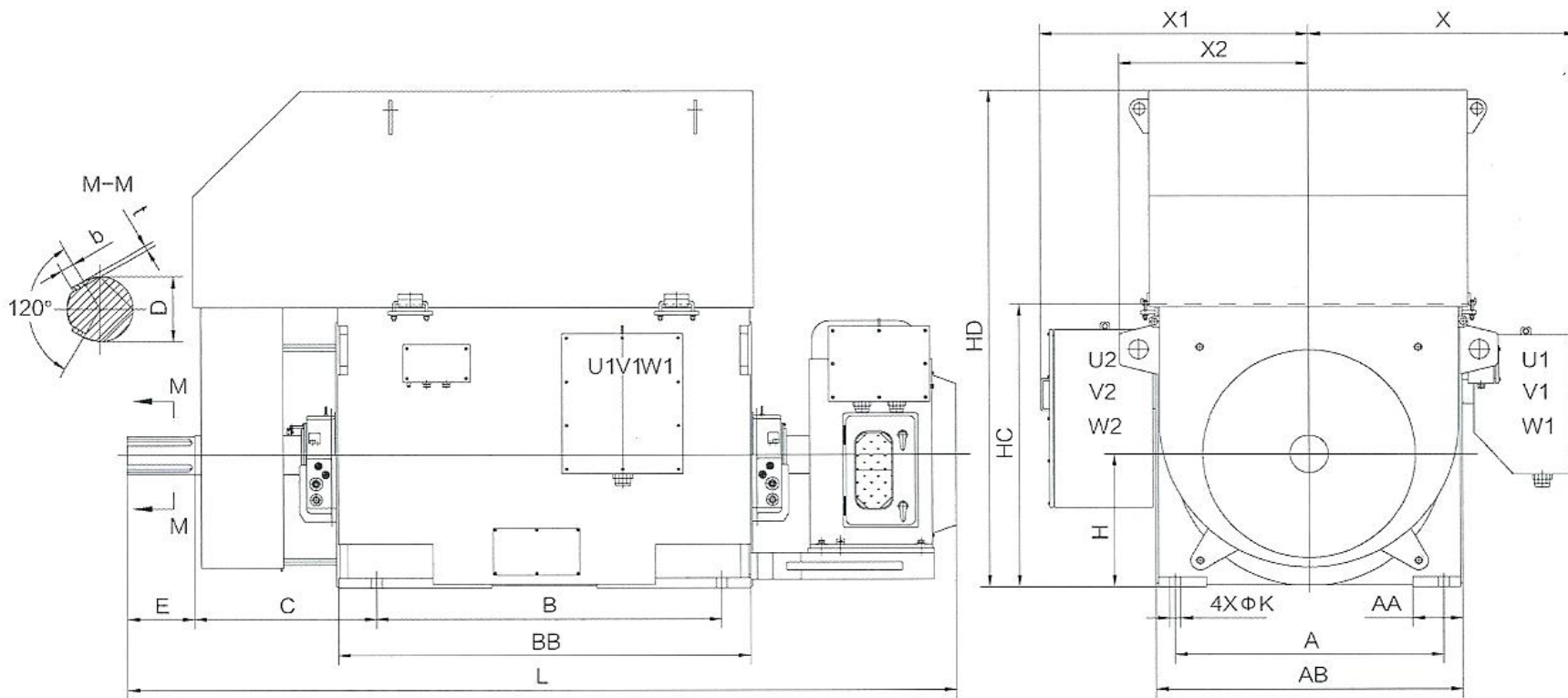
Overall mounting dimensions for HJSR 11kV series of slipping high-voltage three-phase motors.



Frame	A	AB	B	AA	BB	C	D	E	F	G	t	b	H	K	HC	HD	L	X
HJSR355-4	630	800	900	160	1420	560	100	210	28	90	/	/	355	28	755	1600	2750	445
HJSR400-4-8	710	900	1000	170	1570	630	110	210	28	100	/	/	400	35	850	1850	2940	445
HJSR450-4	800	1000	1120	190	1720	670	120	210	32	109	/	/	450	35	950	2050	3185	445
HJSR450-6-12	800	1000	1120	190	1720	670	130	250	32	119	/	/	450	35	950	2050	3185	445
HJSR500-4	900	1120	1250	200	1820	710	130	250	32	119	/	/	500	42	1060	2260	3355	445
HJSR500-6-12	900	1120	1250	200	1820	710	140	250	36	128	/	/	500	42	1060	2260	3355	445
HJSR560-4	1000	1250	1400	230	1970	800	150	250	/	/	11.4	39.7	560	42	1185	2485	3650	510
HJSR560-6-12	1000	1250	1400	230	1970	800	160	300	/	/	12.4	42.8	560	42	1185	2485	3650	510
HJSR630-4	1120	1400	1600	240	2120	900	170	300	/	/	12.4	44.2	630	48	1330	2735	3810	510
HJSR630-6-12	1120	1400	1600	240	2120	900	180	300	/	/	12.4	45.6	630	48	1330	2735	3810	510



Overall mounting dimensions for HJSR 11kV series of slipping high-voltage three-phase motors.



Frame	A	B	C	AB	AA	BB	D	E	b	t	H	K	HC	HD	L	X	X1/X2
HJSR710-4..16	1400	1800	1000	1600	262	2150/2330	200	350	51	14	710	56	1510	2800	4630	1400	1400/990
HJSR800-4..16	1600	2000	1080	1800	292	2350/2500	220	350	57.1	16	800	56	1700	3100	4880	1500	1500/1090
HJSR900-4..16	1800	2000/2200	1200	2000	302	2500/2700	250	410	64.6	18	900	66	1912	3600	5240	1600	1600/1188
HJSR1000-4..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.