



**SCHLEIFRING DREHSTROM-HOCHSPANNUNGS-MOTOREN**

Kühlart: IC611, Luft-Luft-Kühlung

**SLIPRING 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



**4.16 kV - 60 Hz - CL F - IP23**

Typ	Nennleistung	N-strom 4.16 kV	Nenn-drehzahl	Wirkungs-grad	Leistungs-faktor	Kipp-moment	Rotor Spannung	Rotor Strom	Jmotor	Gewicht
Type	Rated output	Current 4.16 kV	Rated speed	Efficiency %	Power factor	B-down Torque	Rotor voltage	Rotor current		Weight
Type	Puissance nominale	Intensité 4.16 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**

HJSR4355A-4	185	32	1768	92.1	0.88	2.9	379	315	5	3070
HJSR4355B-4	200	34	1770	92.3	0.88	3.0	422	304	5	3170
HJSR4355C-4	220	38	1774	92.5	0.88	3.2	474	295	6	3280
HJSR4355D-4	250	42	1770	92.7	0.89	2.8	474	337	6	3310
HJSR4400A-4	280	47	1772	92.8	0.89	2.5	474	379	10	3610
HJSR4400B-4	315	53	1775	93.1	0.89	2.4	542	370	11	3740
HJSR4400C-4	355	60	1778	93.4	0.88	2.3	632	355	12	3870
HJSR4400D-4	400	70	1782	93.7	0.85	2.4	739	341	13	3990
HJSR4400E-4	450	77	1780	94.0	0.86	2.7	739	384	13	4110
HJSR4450A-4	500	82	1775	94.6	0.90	2.8	632	498	16	4860
HJSR4450B-4	560	90	1776	94.9	0.91	2.8	690	510	17	5030
HJSR4450C-4	630	101	1777	95.1	0.91	2.9	759	520	19	5200
HJSR4450D-4	710	114	1777	95.4	0.91	2.8	843	526	22	5540
HJSR4500A-4	800	134	1776	94.4	0.88	2.1	672	759	29	6280
HJSR4500B-4	900	150	1777	94.5	0.88	2.1	739	774	31	6480
HJSR4500C-4	1000	165	1778	94.7	0.89	2.2	821	771	34	6650
HJSR4500D-4	1120	184	1780	94.8	0.89	2.2	924	766	40	6810
HJSR4560A-4	1250	204	1783	94.8	0.90	2.6	1012	776	60	8000
HJSR4560B-4	1400	228	1783	94.9	0.90	2.5	1084	810	65	8250
HJSR4560C-4	1600	257	1783	95.1	0.91	2.4	1167	859	69	8470
HJSR4560D-4	1800	288	1784	95.3	0.91	2.5	1322	851	78	8650
HJSR4630A-4	2000	320	1782	95.4	0.91	2.4	1394	860	121	10650
HJSR4630B-4	2240	358	1783	95.6	0.91	2.4	1549	862	131	11050
HJSR4630C-4	2500	399	1786	95.7	0.91	2.5	1745	850	149	11750
HJSR4630D-4	2800	446	1786	95.8	0.91	2.5	1994	851	168	12500
HJSR4630E-4	3150	501	1786	96.0	0.91	2.5	2151	888	187	13200
HJSR4710A-4	3150	524	1788	93.3	0.90	2.6	/	/	211	13800
HJSR4710B-4	3550	571	1788	96.5	0.90	2.5	/	/	243	14350
HJSR4710C-4	4000	642	1789	96.6	0.90	2.5	/	/	259	14980
HJSR4800C-4	4500	724	1789	96.6	0.89	2.5	/	/	291	15600
HJSR4800B-4	5000	796	1790	96.9	0.90	2.8	/	/	397	18900
HJSR4800C-4	5600	888	1792	97.1	0.90	2.8	/	/	480	19980
HJSR4900A-4	6300	997	1790	97.0	0.91	2.8	/	/	510	24900
HJSR4900B-4	7100	1120	1792	97.2	0.91	3.0	/	/	566	25750
HJSR4900C-4	8000	1264	1792	97.2	0.91	2.7	/	/	677	26300





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Cooling Method: IC611, Air-Air

## MOTEURS DE HAUTE TENSION DE TROIS PHASE

Méthode de refroidissement IC611, air-air de refroidissement



### 4.16 kV - 60 Hz - CL F - IP23

Typ	Nennleistung	N-strom 4.16 kV	Nenn- drehzahl	Wirkungs- grad	Leistungs- faktor	Kipp- moment	Rotor Spannung	Rotor Strom		Gewicht
Type	Rated output	Current 4.16 kV	Rated speed	Efficiency %	Power factor	B-down Torque	Rotor voltage	Rotor current	Jmotor	Weight
Type	Puissance nominale	Intensité 4.16 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
<b>6 Polig / 6 Pole / 6 Pôles</b>										
HJSR4400A-6	185	33	1180	92.1	0.85	2.8	410	294	13	3640
HJSR4400B-6	200	35	1178	92.1	0.85	2.6	410	318	13	3670
HJSR4400C-6	220	40	1181	92.4	0.83	2.9	456	313	13	3770
HJSR4400D-6	250	45	1182	92.7	0.83	3.0	513	315	14	3900
HJSR4400E-6	280	50	1180	92.8	0.84	2.6	513	355	14	3930
HJSR4400F-6	315	55	1181	93.1	0.85	2.6	586	347	17	4020
HJSR4400G-6	355	65	1183	93.2	0.82	2.9	652	351	17	4040
HJSR4450A-6	400	70	1182	93.4	0.85	2.4	602	423	29	5180
HJSR4450B-6	450	78	1183	93.6	0.86	2.4	652	439	31	5350
HJSR4450C-6	500	86	1183	93.7	0.86	2.4	712	446	33	5520
HJSR4450D-6	560	96	1184	94.0	0.86	2.4	783	453	36	5690
HJSR4500A-6	630	107	1182	94.8	0.86	2.3	712	644	42	6100
HJSR4500B-6	710	121	1182	95.0	0.86	2.3	783	658	49	6280
HJSR4500C-6	800	136	1183	95.2	0.86	2.4	870	663	52	6450
HJSR4500D-6	900	152	1184	95.4	0.86	2.4	979	652	55	6630
HJSR4560A-6	1000	166	1184	95.4	0.88	2.5	979	645	83	7880
HJSR4560B-6	1120	185	1184	95.6	0.88	2.5	1119	629	96	8020
HJSR4560C-6	1250	206	1186	95.8	0.88	2.6	1305	598	109	8320
HJSR4560D-6	1400	230	1187	96.1	0.88	2.8	1326	642	130	8490
HJSR4630A-6	1600	268	1189	95.4	0.87	2.5	1483	660	173	10750
HJSR4630B-6	1800	301	1189	95.6	0.87	2.5	1645	667	184	11050
HJSR4630C-6	2000	333	1189	95.8	0.87	2.5	1851	656	206	11700
HJSR4630D-6	2240	373	1189	96.0	0.87	2.6	2119	640	238	12500
HJSR4710A-6	2240	381	1189	96.5	0.85	3.7	/	/	310	13400
HJSR4710B-6	2500	424	1190	96.7	0.85	3.7	/	/	363	13970
HJSR4710C-6	2800	474	1190	96.8	0.85	3.7	/	/	399	14520
HJSR4710D-6	3150	534	1190	96.8	0.85	3.7	/	/	412	15300
HJSR4800A-6	3550	600	1192	96.8	0.85	3.0	/	/	408	18200
HJSR4800B-6	4000	665	1190	96.8	0.86	3.0	/	/	461	18750
HJSR4800C-6	4500	751	1190	96.9	0.86	3.3	/	/	514	19520
HJSR4900A-6	5000	817	1192	97.1	0.88	3.1	/	/	662	24300
HJSR4900B-6	5600	913	1192	97.2	0.88	3.0	/	/	750	24980
HJSR4900C-6	6300	1028	1192	97.2	0.88	2.9	/	/	801	25630
HJSR41000A-6	7100	1152	1194	97.3	0.88	2.5	/	/	1110	31540
HJSR41000B-6	8000	1301	1194	97.4	0.88	2.5	/	/	1265	32260





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Typ	Nennleistung	N-strom 4.16 kV	Nenn-drehzahl	Wirkungs-grad	Leistungs-faktor	Kipp-moment	Rotor Spannung	Rotor Strom		Gewicht
Type	Rated output	Current 4.16 kV	Rated speed	Efficiency %	Power factor	B-down Torque	Rotor voltage	Rotor current	Jmotor	Weight
Type	Puissance nominale	Intensité 4.16 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 Poles / 8 Pôles

HJSR4400A-8	185	36	883	92.0	0.78	3.1	559	215	16	3660
HJSR4400B-8	200	38	881	92.0	0.79	2.9	559	223	16	3680
HJSR4400C-8	220	41	881	92.2	0.80	2.8	602	238	18	3770
HJSR4400D-8	250	46	881	92.4	0.81	2.7	652	249	19	3880
HJSR4400E-8	280	52	882	92.7	0.80	2.7	712	256	21	3990
HJSR4450A-8	315	57	881	92.9	0.83	2.5	602	339	29	4800
HJSR4450B-8	355	63	881	93.0	0.84	2.4	652	353	32	4970
HJSR4450C-8	400	71	881	93.2	0.84	2.4	712	364	35	5140
HJSR4450D-8	450	79	881	93.4	0.85	2.3	783	373	40	5480
HJSR4500A-8	500	87	884	94.1	0.85	2.4	746	433	51	6050
HJSR4500B-8	560	98	886	94.3	0.84	2.4	829	435	56	6190
HJSR4500C-8	630	109	887	94.6	0.85	2.4	933	433	65	6450
HJSR4500D-8	710	124	888	94.8	0.84	2.6	1066	425	70	6680
HJSR4560A-8	800	135	884	94.6	0.87	2.0	912	573	104	7950
HJSR4560B-8	900	154	886	94.6	0.86	2.1	1026	569	112	8110
HJSR4560C-8	1000	170	887	94.9	0.86	2.2	1172	549	128	8320
HJSR4560D-8	1120	191	888	94.9	0.86	2.2	1279	587	132	8530
HJSR4630A-8	1250	213	887	95.0	0.86	2.6	1263	605	224	10050
HJSR4630B-8	1400	238	887	95.2	0.86	2.6	1377	620	242	10400
HJSR4630C-8	1600	271	888	95.5	0.86	2.6	1588	612	276	11200
HJSR4630D-8	1800	304	888	95.6	0.86	2.6	1767	619	311	12000
HJSR4710A-8	1800	317	892	96.1	0.82	2.8	/	/	342	13200
HJSR4710B-8	2000	354	893	96.2	0.82	2.9	/	/	368	13830
HJSR4710C-8	2240	392	893	96.3	0.82	2.7	/	/	382	14560
HJSR4710D-8	2500	438	893	96.4	0.82	2.8	/	/	437	15100
HJSR4800A-8	2800	490	892	96.4	0.82	2.7	/	/	548	19100
HJSR4800B-8	3150	549	892	96.5	0.83	2.7	/	/	613	19870
HJSR4900A-8	3550	606	893	96.8	0.84	2.8	/	/	831	23920
HJSR4900B-8	4000	677	893	96.9	0.85	2.9	/	/	893	24560
HJSR4900C-8	4500	760	893	97.0	0.85	2.8	/	/	1092	25240
HJSR41000A-8	5000	833	893	97.1	0.86	2.8	/	/	1352	27800
HJSR41000B-8	5600	935	893	97.1	0.86	2.8	/	/	1499	28650
HJSR41000C-8	6300	1047	893	97.2	0.86	2.9	/	/	1593	29470





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Cooling Method: IC611, Air-Air

### MOTEURS DE HAUTE TENSION DE TROIS PHASE

Méthode de refroidissement IC611, air-air de refroidissement



#### 4.16 kV - 60 Hz - CL F - IP23

Typ	Nennleistung	N-strom 4.16 kV	Nenn- drehzahl	Wirkungs- grad	Leistungs- faktor	Kipp- moment	Rotor Spannung	Rotor Strom		Gewicht
Type	Rated output	Current 4.16 kV	Rated speed	Efficiency %	Power factor	B-down Torque	Rotor voltage	Rotor current	Jmotor	Weight
Type	Puissance nominale	Intensité 4.16 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

HJSR4450A-10	185	36	703	91.8	0.78	2.9	559	216	29	4370
HJSR4450B-10	200	38	703	92.2	0.79	2.9	602	216	32	4540
HJSR4450C-10	220	42	704	92.4	0.79	2.9	652	219	35	4710
HJSR4450D-10	250	47	704	92.7	0.80	2.8	712	228	38	4880
HJSR4450E-10	280	52	704	92.9	0.80	2.8	783	232	41	5050
HJSR4450F-10	315	60	706	93.0	0.78	2.9	870	235	43	5220
HJSR4500A-10	355	64	707	93.3	0.82	2.2	712	328	55	6050
HJSR4500B-10	400	72	707	93.5	0.82	2.2	783	335	60	6170
HJSR4500C-10	450	82	707	93.7	0.81	2.2	870	339	65	6280
HJSR4500D-10	500	90	708	94.0	0.82	2.3	979	333	75	6510
HJSR4500E-10	560	101	709	94.2	0.82	2.4	1119	325	85	6730
HJSR4560A-10	630	115	708	94.3	0.81	2.4	1044	391	110	7820
HJSR4560B-10	710	129	708	94.7	0.81	2.5	1205	379	127	8020
HJSR4560C-10	800	143	708	94.8	0.82	2.4	1305	394	144	8490
HJSR4560D-10	900	159	708	94.9	0.83	2.5	1357	428	156	8660
HJSR4630A-10	1000	174	709	94.9	0.84	2.5	1360	444	246	9900
HJSR4630B-10	1120	195	709	95.0	0.84	2.4	1503	451	284	10500
HJSR4630C-10	1250	217	710	95.2	0.84	2.5	1666	452	303	10800
HJSR4630D-10	1400	243	710	95.4	0.84	2.5	1875	448	341	11500
HJSR4630E-10	1600	277	710	95.6	0.84	2.5	2149	447	398	12600
HJSR4710A-10	1600	285	712	95.1	0.82	2.8	/	/	447	13600
HJSR4710B-10	1800	320	712	95.0	0.82	2.7	/	/	479	14100
HJSR4710C-10	2000	355	712	95.2	0.82	2.8	/	/	521	14800
HJSR4800A-10	2240	396	712	95.5	0.82	2.6	/	/	542	18750
HJSR4800B-10	2500	442	712	95.6	0.82	2.6	/	/	613	19220
HJSR4800C-10	2800	493	714	95.8	0.82	2.7	/	/	699	19830
HJSR4900A-10	3150	553	713	96.1	0.82	2.5	/	/	862	23250
HJSR4900B-10	3550	622	713	96.2	0.83	2.5	/	/	1010	23790
HJSR4900C-10	4000	695	713	96.3	0.83	2.5	/	/	1069	24300
HJSR41000A-10	4500	780	713	96.4	0.83	2.7	/	/	1110	27400
HJSR41000B-10	5000	864	713	96.5	0.83	2.7	/	/	1221	28320
HJSR41000C-10	5600	964	712	96.7	0.84	2.7	/	/	1331	29700





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Typ	Nennleistung	N-strom 4.16 kV	Nenn- drehzahl	Wirkungs- grad	Leistungs- faktor	Kipp- moment	Rotor Spannung	Rotor Strom		Gewicht
Type	Rated output	Current 4.16 kV	Rated speed	Efficiency %	Power factor	B-down Torque	Rotor voltage	Rotor current	Jmotor	Weight
Type	Puissance nominale	Intensité 4.16 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

HJSR4450A-12	185	38	583	90.8	0.74	2.1	507	245	35	4380
HJSR4450B-12	200	41	584	91.0	0.74	2.3	570	234	38	4550
HJSR4450C-12	220	45	586	91.2	0.75	2.4	651	223	43	4890
HJSR4450D-12	250	49	584	91.4	0.77	2.1	651	257	44	4900
HJSR4450E-12	280	55	584	91.6	0.77	2.2	602	292	45	5200
HJSR4500A-12	315	61	584	92.6	0.78	2.3	783	268	60	6120
HJSR4500B-12	355	68	584	92.7	0.78	2.3	870	272	65	6340
HJSR4500C-12	400	76	586	93.0	0.79	2.3	979	271	75	6480
HJSR4500D-12	450	85	586	93.2	0.79	2.3	1119	265	85	6670
HJSR4560A-12	500	97	588	93.3	0.77	2.7	979	299	114	8020
HJSR4560B-12	560	108	587	93.4	0.77	2.4	1119	335	124	8230
HJSR4560C-12	630	120	588	93.4	0.78	2.5	1305	326	133	8490
HJSR4560D-12	710	135	589	93.4	0.78	2.7	1423	312	152	8620
HJSR4630A-12	800	151	588	93.3	0.79	2.4	1354	360	260	10500
HJSR4630B-12	900	169	589	93.4	0.79	2.5	1486	369	277	10800
HJSR4630C-12	1000	188	589	93.5	0.79	2.5	1654	368	312	11400
HJSR4630D-12	1120	211	590	93.5	0.79	2.5	1861	365	346	11950
HJSR4710A-12	1120	200	592	95.1	0.82	2.7	/	/	368	13100
HJSR4710B-12	1250	223	590	95.1	0.82	2.6	/	/	408	13610
HJSR4710C-12	1400	249	590	95.2	0.82	2.6	/	/	463	14150
HJSR4710D-12	1600	284	590	95.3	0.82	2.6	/	/	516	14650
HJSR4800A-12	1800	326	592	95.1	0.81	2.6	/	/	647	18550
HJSR4800B-12	2000	363	592	95.3	0.80	2.7	/	/	703	19020
HJSR4800C-12	2240	404	592	95.4	0.81	2.7	/	/	789	19580
HJSR4900A-12	2500	455	592	95.6	0.80	2.5	/	/	984	23570
HJSR4900B-12	2800	513	593	95.7	0.79	2.5	/	/	1097	24100
HJSR4900C-12	3150	580	593	95.8	0.79	2.6	/	/	1249	24680
HJSR41000A-12	3550	632	593	96.2	0.81	2.6	/	/	1445	26800
HJSR41000B-12	4000	715	593	96.3	0.81	2.6	/	/	1517	27510
HJSR41000C-12	4500	803	594	96.4	0.81	2.5	/	/	1738	28340
HJSR41000D-12	5000	886	594	96.6	0.81	2.5	/	/	1910	28900





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## MOTEURS DE HAUTE TENSION DE TROIS PHASE

Méthode de refroidissement IC611, air-air de refroidissement



### 4.16 kV - 60 Hz - CL F - IP23

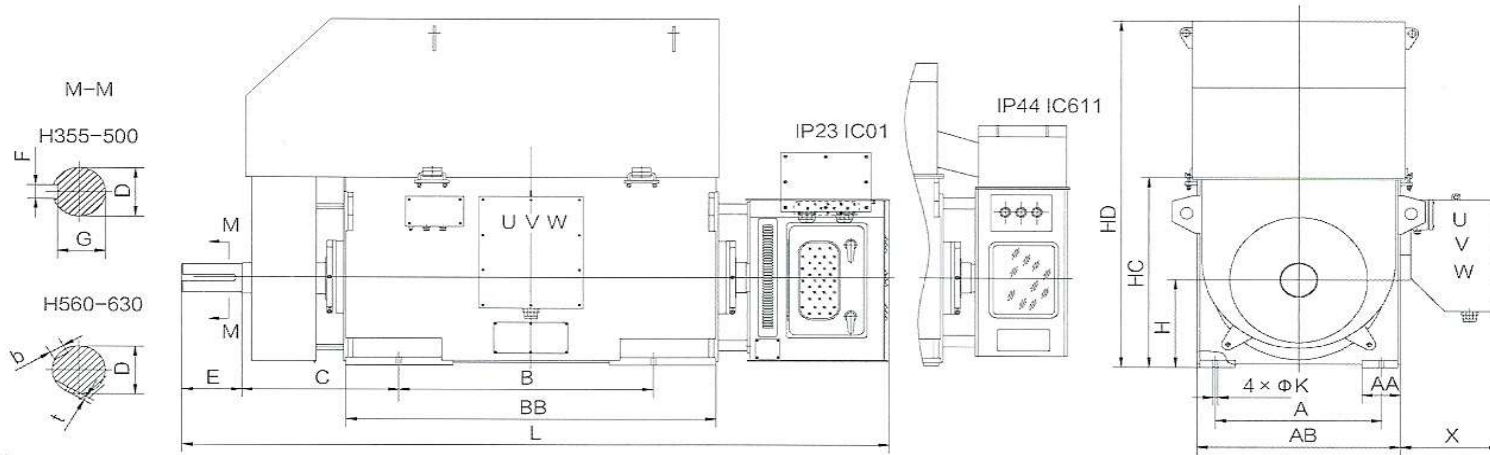
Typ	Nennleistung	N-strom 4.16 kV	Nenn- drehzahl	Wirkungs- grad	Leistungs- faktor	Kipp- moment	Rotor Spannung	Rotor Strom	J Motor	Gewicht
Type	Rated output	Current 4.16 kV	Rated speed	Efficiency %	Power factor	B-down Torque	Rotor voltage	Rotor current		Weight
Type	Puissance nominale	Intensité 4.16 kV	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

HJSR4710A-16	630	133	439	92.3	0.71	2.5	/	/	429	12700
HJSR4710B-16	710	149	439	92.5	0.72	2.5	/	/	548	13170
HJSR4710C-16	800	167	440	92.7	0.72	2.5	/	/	643	13480
HJSR4710D-16	900	187	440	92.9	0.72	2.5	/	/	730	14160
HJSR4800A-16	1000	200	440	93.3	0.74	2.5	/	/	739	17730
HJSR4800B-16	1120	223	440	93.5	0.75	2.6	/	/	867	18470
HJSR4800C-16	1250	248	442	93.8	0.75	2.6	/	/	998	19090
HJSR4900A-16	1400	272	442	94.1	0.76	2.5	/	/	1167	23070
HJSR4900B-16	1600	310	443	94.3	0.76	2.5	/	/	1361	23520
HJSR4900C-16	1800	347	443	94.5	0.76	2.4	/	/	1477	24320
HJSR4900D-16	2000	384	443	94.7	0.77	2.4	/	/	1589	24960
HJSR41000A-16	2240	420	443	95.4	0.78	2.7	/	/	1741	26600
HJSR41000B-16	2500	463	444	95.6	0.78	2.6	/	/	1894	27250
HJSR41000C-16	2800	515	444	95.8	0.79	2.7	/	/	2121	28120
HJSR41000D-16	3150	576	444	96.0	0.79	2.7	/	/	2428	28830

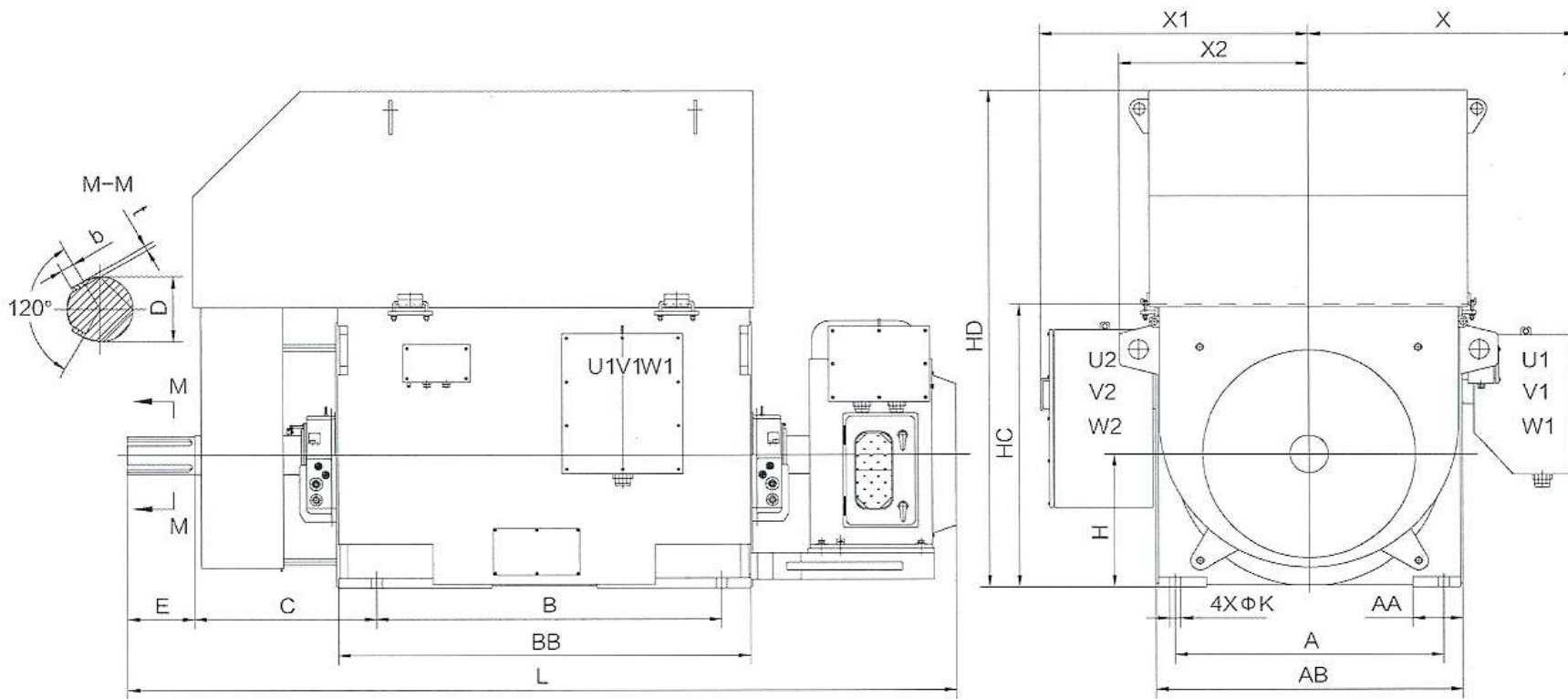


Overall mounting dimensions for HJSR (4.16 kV) series of slipring high-voltage three-phase motors.



Frame	A	AB	B	AA	BB	C	D	E	F	G	t	b	H	K	HC	HD	L	X
HJSR4355-4	630	800	900	160	1420	560	100	210	28	90	/	/	355	28	755	1600	2750	445
HJSR4400-4-8	710	900	1000	170	1570	630	110	210	28	100	/	/	400	35	850	1850	2940	445
HJSR4450-4	800	1000	1120	190	1720	670	120	210	32	109	/	/	450	35	950	2050	3185	445
HJSR4450-6-12	800	1000	1120	190	1720	670	130	250	32	119	/	/	450	35	950	2050	3185	445
HJSR4500-4	900	1120	1250	200	1820	710	130	250	32	119	/	/	500	42	1060	2260	3355	445
HJSR4500-6-12	900	1120	1250	200	1820	710	140	250	36	128	/	/	500	42	1060	2260	3355	445
HJSR4560-4	1000	1250	1400	230	1970	800	150	250	/	/	11.4	39.7	560	42	1185	2485	3650	510
HJSR4560-6-12	1000	1250	1400	230	1970	800	160	300	/	/	12.4	42.8	560	42	1185	2485	3650	510
HJSR4630-4	1120	1400	1600	240	2120	900	170	300	/	/	12.4	44.2	630	48	1330	2735	3810	510
HJSR4630-6-12	1120	1400	1600	240	2120	900	180	300	/	/	12.4	45.6	630	48	1330	2735	3810	510

Overall mounting dimensions for HJSR (4.16 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
<b>HJSR4710-4..16</b>	1400	1800	1000	1600	262	2150/2330	200	350	51	14	710	56	1510	2800	4630	1400	1400/990
<b>HJSR4800-4..16</b>	1600	2000	1080	1800	292	2350/2500	220	350	57.1	16	800	56	1700	3100	4880	1500	1500/1090
<b>HJSR4900-4..16</b>	1800	2000/2200	1200	2000	302	2500/2700	250	410	64.6	18	900	66	1912	3600	5240	1600	1600/1188
<b>HJSR41000-4..16</b>	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.