



**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, IP54**

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	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

**4 Polig / 4 Poles / 4 Pôles**

HJSR4355A-4	185	31.7	1768	92.1	0.88	2.9	379	315	3070
HJSR4355B-4	200	34.2	1770	92.3	0.88	3.0	422	304	3170
HJSR4355C-4	220	37.6	1774	92.5	0.88	3.2	474	295	3280
HJSR4355D-4	250	42.1	1770	92.7	0.89	2.8	474	337	3310
HJSR4400A-4	280	47.1	1772	92.8	0.89	2.5	474	379	3610
HJSR4400B-4	315	52.8	1775	93.1	0.89	2.4	542	370	3740
HJSR4400C-4	355	60.0	1778	93.4	0.88	2.3	632	355	3870
HJSR4400D-4	400	69.8	1782	93.7	0.85	2.4	739	341	3990
HJSR4400E-4	450	77.3	1780	94.0	0.86	2.7	739	384	4110
HJSR4450A-4	500	81.6	1775	94.6	0.90	2.8	632	498	4860
HJSR4450B-4	560	90.1	1776	94.9	0.91	2.8	690	510	5030
HJSR4450C-4	630	101.2	1777	95.1	0.91	2.9	759	520	5200
HJSR4450D-4	710	113.6	1777	95.4	0.91	2.8	843	526	5540
HJSR4500A-4	800	133.8	1776	94.4	0.88	2.1	672	759	6280
HJSR4500B-4	900	150.4	1777	94.5	0.88	2.1	739	774	6480
HJSR4500C-4	1000	164.9	1778	94.7	0.89	2.2	821	771	6650
HJSR4500D-4	1120	184.5	1780	94.8	0.89	2.2	924	766	6810
HJSR4560A-4	1250	203.6	1783	94.8	0.90	2.6	1012	776	8000
HJSR4560B-4	1400	227.8	1783	94.9	0.90	2.5	1084	810	8250
HJSR4560C-4	1600	256.9	1783	95.1	0.91	2.4	1167	859	8470
HJSR4560D-4	1800	288.4	1784	95.3	0.91	2.5	1322	851	8650
HJSR4630A-4	2000	320.1	1782	95.4	0.91	2.4	1394	860	10650
HJSR4630B-4	2240	357.8	1783	95.6	0.91	2.4	1549	862	11050
HJSR4630C-4	2500	398.9	1786	95.7	0.91	2.5	1745	850	11750
HJSR4630D-4	2800	446.3	1786	95.8	0.91	2.5	1994	851	12500
HJSR4630E-4	3150	501.0	1786	96.0	0.91	2.5	2151	888	13200
HJSR4710A-4	3150	524.2	1788	93.3	0.90	2.6	/	/	13800
HJSR4710B-4	3550	571.1	1788	96.5	0.90	2.5	/	/	14350
HJSR4710C-4	4000	642.1	1789	96.6	0.90	2.5	/	/	14980
HJSR4800C-4	4500	724.0	1789	96.6	0.89	2.5	/	/	15600
HJSR4800B-4	5000	795.8	1790	96.9	0.90	2.8	/	/	18900
HJSR4800C-4	5600	888.4	1792	97.1	0.90	2.8	/	/	19980
HJSR4900A-4	6300	997.2	1790	97.0	0.91	2.8	/	/	24900
HJSR4900B-4	7100	1120.3	1792	97.2	0.91	3.0	/	/	25750
HJSR4900C-4	8000	1263.7	1792	97.2	0.91	2.7	/	/	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, IP54



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	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
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### 6 Polig / 6 Pole / 6 Pôles

HJSR4400A-6	185	32.8	1180	92.1	0.85	2.8	410	294	3640
HJSR4400B-6	200	35.5	1178	92.1	0.85	2.6	410	318	3670
HJSR4400C-6	220	39.9	1181	92.4	0.83	2.9	456	313	3770
HJSR4400D-6	250	45.1	1182	92.7	0.83	3.0	513	315	3900
HJSR4400E-6	280	49.9	1180	92.8	0.84	2.6	513	355	3930
HJSR4400F-6	315	55.3	1181	93.1	0.85	2.6	586	347	4020
HJSR4400G-6	355	64.5	1183	93.2	0.82	2.9	652	351	4040
HJSR4450A-6	400	70.0	1182	93.4	0.85	2.4	602	423	5180
HJSR4450B-6	450	77.7	1183	93.6	0.86	2.4	652	439	5350
HJSR4450C-6	500	86.2	1183	93.7	0.86	2.4	712	446	5520
HJSR4450D-6	560	96.3	1184	94.0	0.86	2.4	783	453	5690
HJSR4500A-6	630	107.4	1182	94.8	0.86	2.3	712	644	6100
HJSR4500B-6	710	120.8	1182	95.0	0.86	2.3	783	658	6280
HJSR4500C-6	800	135.8	1183	95.2	0.86	2.4	870	663	6450
HJSR4500D-6	900	152.4	1184	95.4	0.86	2.4	979	652	6630
HJSR4560A-6	1000	165.5	1184	95.4	0.88	2.5	979	645	7880
HJSR4560B-6	1120	185.0	1184	95.6	0.88	2.5	1119	629	8020
HJSR4560C-6	1250	206.0	1186	95.8	0.88	2.6	1305	598	8320
HJSR4560D-6	1400	230.0	1187	96.1	0.88	2.8	1326	642	8490
HJSR4630A-6	1600	267.9	1189	95.4	0.87	2.5	1483	660	10750
HJSR4630B-6	1800	300.7	1189	95.6	0.87	2.5	1645	667	11050
HJSR4630C-6	2000	333.4	1189	95.8	0.87	2.5	1851	656	11700
HJSR4630D-6	2240	372.7	1189	96.0	0.87	2.6	2119	640	12500
HJSR4710A-6	2240	380.8	1189	96.5	0.85	3.7	/	/	13400
HJSR4710B-6	2500	423.6	1190	96.7	0.85	3.7	/	/	13970
HJSR4710C-6	2800	474.0	1190	96.8	0.85	3.7	/	/	14520
HJSR4710D-6	3150	533.8	1190	96.8	0.85	3.7	/	/	15300
HJSR4800A-6	3550	599.5	1192	96.8	0.85	3.0	/	/	18200
HJSR4800B-6	4000	665.3	1190	96.8	0.86	3.0	/	/	18750
HJSR4800C-6	4500	751.2	1190	96.9	0.86	3.3	/	/	19520
HJSR4900A-6	5000	816.8	1192	97.1	0.88	3.1	/	/	24300
HJSR4900B-6	5600	912.8	1192	97.2	0.88	3.0	/	/	24980
HJSR4900C-6	6300	1028.1	1192	97.2	0.88	2.9	/	/	25630
HJSR41000A-6	7100	1152.2	1194	97.3	0.88	2.5	/	/	31540
HJSR41000B-6	8000	1301.3	1194	97.4	0.88	2.5	/	/	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	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

### 8 Polig / 8 Poles / 8 Pôles

HJSR4400A-8	185	35.8	883	92.0	0.78	3.1	559	215	3660
HJSR4400B-8	200	38.2	881	92.0	0.79	2.9	559	223	3680
HJSR4400C-8	220	41.4	881	92.2	0.80	2.8	602	238	3770
HJSR4400D-8	250	46.4	881	92.4	0.81	2.7	652	249	3880
HJSR4400E-8	280	52.5	882	92.7	0.80	2.7	712	256	3990
HJSR4450A-8	315	56.8	881	92.9	0.83	2.5	602	339	4800
HJSR4450B-8	355	63.1	881	93.0	0.84	2.4	652	353	4970
HJSR4450C-8	400	71.0	881	93.2	0.84	2.4	712	364	5140
HJSR4450D-8	450	78.8	881	93.4	0.85	2.3	783	373	5480
HJSR4500A-8	500	86.9	884	94.1	0.85	2.4	746	433	6050
HJSR4500B-8	560	98.2	886	94.3	0.84	2.4	829	435	6190
HJSR4500C-8	630	108.9	887	94.6	0.85	2.4	933	433	6450
HJSR4500D-8	710	123.9	888	94.8	0.84	2.6	1066	425	6680
HJSR4560A-8	800	135.1	884	94.6	0.87	2.0	912	573	7950
HJSR4560B-8	900	153.7	886	94.6	0.86	2.1	1026	569	8110
HJSR4560C-8	1000	170.3	887	94.9	0.86	2.2	1172	549	8320
HJSR4560D-8	1120	190.7	888	94.9	0.86	2.2	1279	587	8530
HJSR4630A-8	1250	212.6	887	95.0	0.86	2.6	1263	605	10050
HJSR4630B-8	1400	237.6	887	95.2	0.86	2.6	1377	620	10400
HJSR4630C-8	1600	270.7	888	95.5	0.86	2.6	1588	612	11200
HJSR4630D-8	1800	304.2	888	95.6	0.86	2.6	1767	619	12000
HJSR4710A-8	1800	316.6	892	96.1	0.82	2.8	/	/	13200
HJSR4710B-8	2000	353.6	893	96.2	0.82	2.9	/	/	13830
HJSR4710C-8	2240	392.2	893	96.3	0.82	2.7	/	/	14560
HJSR4710D-8	2500	438.4	893	96.4	0.82	2.8	/	/	15100
HJSR4800A-8	2800	489.8	892	96.4	0.82	2.7	/	/	19100
HJSR4800B-8	3150	549.1	892	96.5	0.83	2.7	/	/	19870
HJSR4900A-8	3550	605.9	893	96.8	0.84	2.8	/	/	23920
HJSR4900B-8	4000	677.2	893	96.9	0.85	2.9	/	/	24560
HJSR4900C-8	4500	760.2	893	97.0	0.85	2.8	/	/	25240
HJSR41000A-8	5000	832.9	893	97.1	0.86	2.8	/	/	27800
HJSR41000B-8	5600	935.1	893	97.1	0.86	2.8	/	/	28650
HJSR41000C-8	6300	1047.2	893	97.2	0.86	2.9	/	/	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, IP54

Typ	Nennleistung	N-strom 4.16 kV	Nenn-drehzahl	Wirkungs-grad	Leistungs-faktor	Kippmoment	Rotor Spannung	Rotor Strom	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

### 10 Polig / 10 Poles / 10 Pôles

HJSR4450A-10	185	35.9	703	91.8	0.78	2.9	559	216	4370
HJSR4450B-10	200	38.2	703	92.2	0.79	2.9	602	216	4540
HJSR4450C-10	220	41.9	704	92.4	0.79	2.9	652	219	4710
HJSR4450D-10	250	46.8	704	92.7	0.80	2.8	712	228	4880
HJSR4450E-10	280	52.3	704	92.9	0.80	2.8	783	232	5050
HJSR4450F-10	315	60.3	706	93.0	0.78	2.9	870	235	5220
HJSR4500A-10	355	64.5	707	93.3	0.82	2.2	712	328	6050
HJSR4500B-10	400	72.5	707	93.5	0.82	2.2	783	335	6170
HJSR4500C-10	450	82.4	707	93.7	0.81	2.2	870	339	6280
HJSR4500D-10	500	90.1	708	94.0	0.82	2.3	979	333	6510
HJSR4500E-10	560	100.7	709	94.2	0.82	2.4	1119	325	6730
HJSR4560A-10	630	114.6	708	94.3	0.81	2.4	1044	391	7820
HJSR4560B-10	710	128.6	708	94.7	0.81	2.5	1205	379	8020
HJSR4560C-10	800	143.0	708	94.8	0.82	2.4	1305	394	8490
HJSR4560D-10	900	158.8	708	94.9	0.83	2.5	1357	428	8660
HJSR4630A-10	1000	174.3	709	94.9	0.84	2.5	1360	444	9900
HJSR4630B-10	1120	195.0	709	95.0	0.84	2.4	1503	451	10500
HJSR4630C-10	1250	217.2	710	95.2	0.84	2.5	1666	452	10800
HJSR4630D-10	1400	242.8	710	95.4	0.84	2.5	1875	448	11500
HJSR4630E-10	1600	276.8	710	95.6	0.84	2.5	2149	447	12600
HJSR4710A-10	1600	284.7	712	95.1	0.82	2.8	/	/	13600
HJSR4710B-10	1800	319.9	712	95.0	0.82	2.7	/	/	14100
HJSR4710C-10	2000	354.7	712	95.2	0.82	2.8	/	/	14800
HJSR4800A-10	2240	396.5	712	95.5	0.82	2.6	/	/	18750
HJSR4800B-10	2500	441.5	712	95.6	0.82	2.6	/	/	19220
HJSR4800C-10	2800	492.9	714	95.8	0.82	2.7	/	/	19830
HJSR4900A-10	3150	552.7	713	96.1	0.82	2.5	/	/	23250
HJSR4900B-10	3550	621.5	713	96.2	0.83	2.5	/	/	23790
HJSR4900C-10	4000	695.4	713	96.3	0.83	2.5	/	/	24300
HJSR41000A-10	4500	779.6	713	96.4	0.83	2.7	/	/	27400
HJSR41000B-10	5000	864.3	713	96.5	0.83	2.7	/	/	28320
HJSR41000C-10	5600	963.7	712	96.7	0.84	2.7	/	/	29700



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Typ	Nennleistung	N-strom 4.16 kV	Nenn-drehzahl	Wirkungs-grad	Leistungs-faktor	Kippmoment	Rotor Spannung	Rotor Strom	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

### 12 Polig / 12 Poles / 12 Pôles

HJSR4450A-12	185	38.3	583	90.8	0.74	2.1	507	245	4380
HJSR4450B-12	200	41.3	584	91.0	0.74	2.3	570	234	4550
HJSR4450C-12	220	44.7	586	91.2	0.75	2.4	651	223	4890
HJSR4450D-12	250	49.4	584	91.4	0.77	2.1	651	257	4900
HJSR4450E-12	280	55.2	584	91.6	0.77	2.2	602	292	5200
HJSR4500A-12	315	60.6	584	92.6	0.78	2.3	783	268	6120
HJSR4500B-12	355	68.2	584	92.7	0.78	2.3	870	272	6340
HJSR4500C-12	400	75.7	586	93.0	0.79	2.3	979	271	6480
HJSR4500D-12	450	84.9	586	93.2	0.79	2.3	1119	265	6670
HJSR4560A-12	500	96.7	588	93.3	0.77	2.7	979	299	8020
HJSR4560B-12	560	108.2	587	93.4	0.77	2.4	1119	335	8230
HJSR4560C-12	630	120.2	588	93.4	0.78	2.5	1305	326	8490
HJSR4560D-12	710	135.4	589	93.4	0.78	2.7	1423	312	8620
HJSR4630A-12	800	150.8	588	93.3	0.79	2.4	1354	360	10500
HJSR4630B-12	900	169.5	589	93.4	0.79	2.5	1486	369	10800
HJSR4630C-12	1000	188.1	589	93.5	0.79	2.5	1654	368	11400
HJSR4630D-12	1120	210.7	590	93.5	0.79	2.5	1861	365	11950
HJSR4710A-12	1120	199.6	592	95.1	0.82	2.7	/	/	13100
HJSR4710B-12	1250	222.7	590	95.1	0.82	2.6	/	/	13610
HJSR4710C-12	1400	248.6	590	95.2	0.82	2.6	/	/	14150
HJSR4710D-12	1600	284.5	590	95.3	0.82	2.6	/	/	14650
HJSR4800A-12	1800	325.9	592	95.1	0.81	2.6	/	/	18550
HJSR4800B-12	2000	363.1	592	95.3	0.80	2.7	/	/	19020
HJSR4800C-12	2240	403.8	592	95.4	0.81	2.7	/	/	19580
HJSR4900A-12	2500	455.3	592	95.6	0.80	2.5	/	/	23570
HJSR4900B-12	2800	513.3	593	95.7	0.79	2.5	/	/	24100
HJSR4900C-12	3150	579.8	593	95.8	0.79	2.6	/	/	24680
HJSR41000A-12	3550	632.3	593	96.2	0.81	2.6	/	/	26800
HJSR41000B-12	4000	715.2	593	96.3	0.81	2.6	/	/	27510
HJSR41000C-12	4500	802.8	594	96.4	0.81	2.5	/	/	28340
HJSR41000D-12	5000	885.7	594	96.6	0.81	2.5	/	/	28900



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## MOTEURS DE HAUTE TENSION DE TROIS PHASE

Méthode de refroidissement IC611, air-air de refroidissement



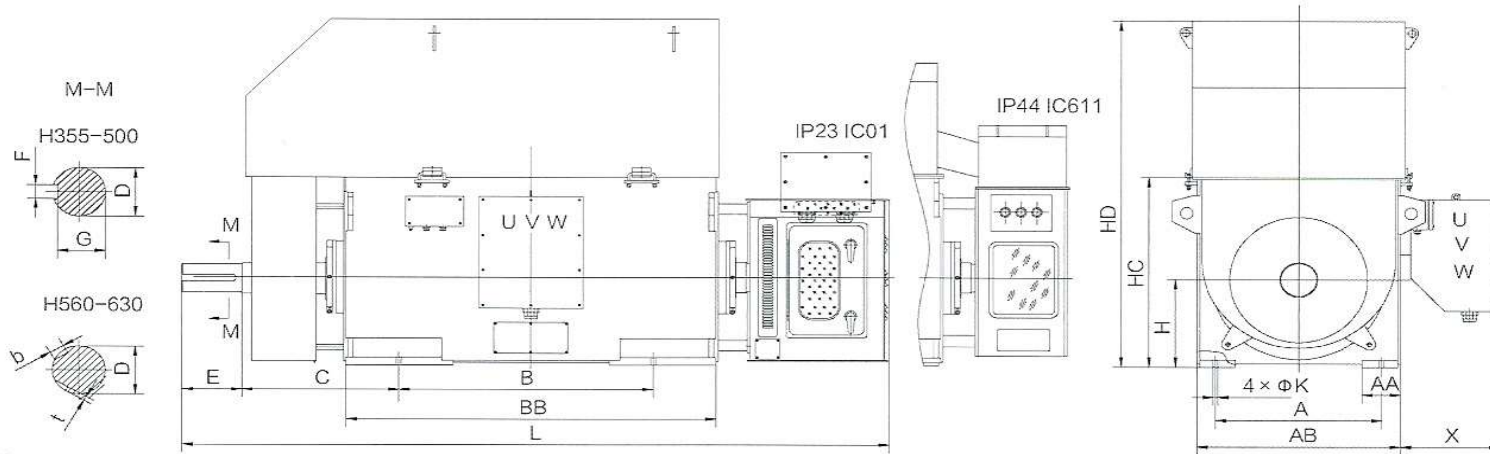
**4.16 kV - 60 Hz - CL F - IP23, IP54**

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	Weight
Type	Puissance nominale	Intensité 4.16 kV	Vitesse nominale	Rendement %	Facteur de puissance	Couple maximal	Voltage Rotor	Courent Rotor	Masse
	<b>KW</b>	<b>A</b>	<b>r/min</b>	<b>%</b>	<b>cos φ</b>	<b>MK / MN</b>	<b>V</b>	<b>A</b>	<b>kg</b>

### 16 Polig / 16 Poles / 16 Pôles

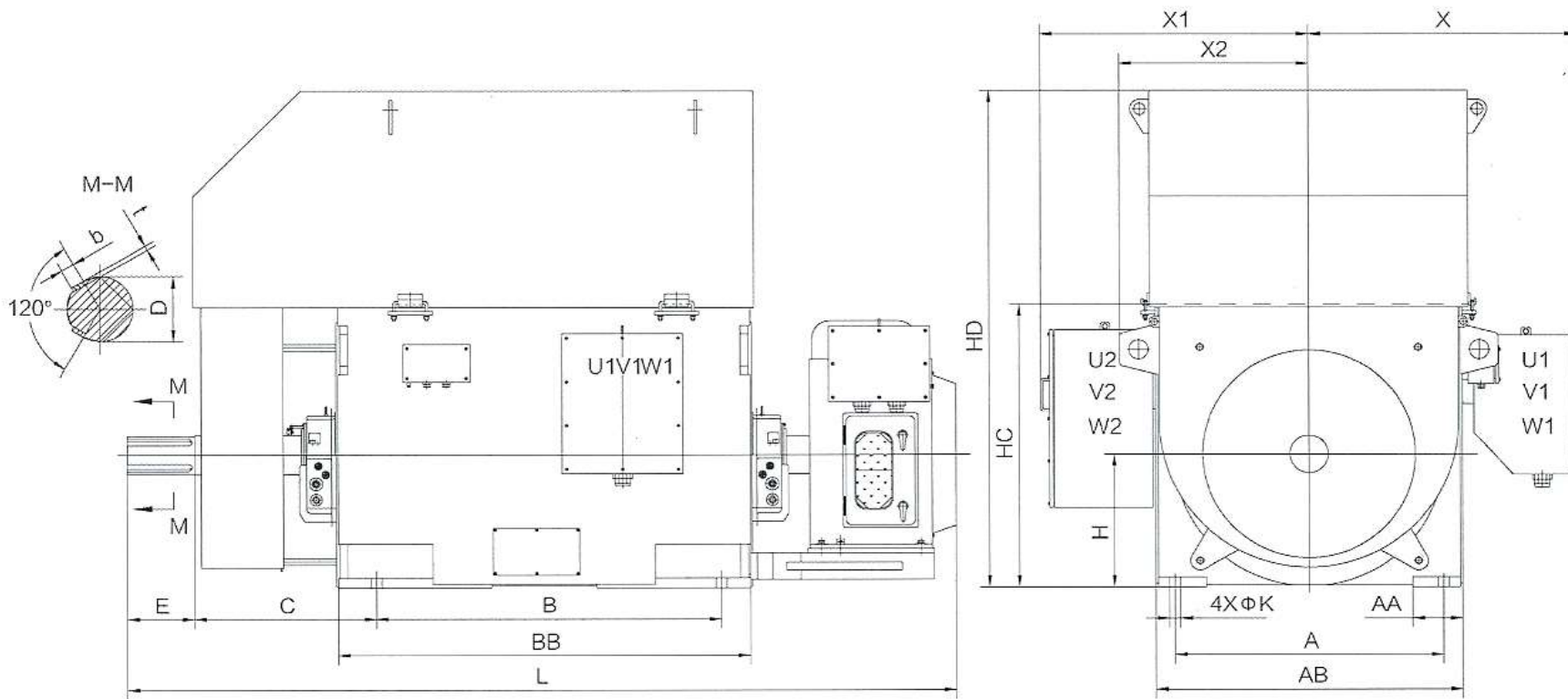
HJSR4710A-16	630	132.8	439	92.3	0.71	2.5	/	/	12700
HJSR4710B-16	710	149.0	439	92.5	0.72	2.5	/	/	13170
HJSR4710C-16	800	166.8	440	92.7	0.72	2.5	/	/	13480
HJSR4710D-16	900	187.0	440	92.9	0.72	2.5	/	/	14160
HJSR4800A-16	1000	200.2	440	93.3	0.74	2.5	/	/	17730
HJSR4800B-16	1120	222.8	440	93.5	0.75	2.6	/	/	18470
HJSR4800C-16	1250	248.2	442	93.8	0.75	2.6	/	/	19090
HJSR4900A-16	1400	272.4	442	94.1	0.76	2.5	/	/	23070
HJSR4900B-16	1600	309.8	443	94.3	0.76	2.5	/	/	23520
HJSR4900C-16	1800	346.9	443	94.5	0.76	2.4	/	/	24320
HJSR4900D-16	2000	383.6	443	94.7	0.77	2.4	/	/	24960
HJSR41000A-16	2240	419.9	443	95.4	0.78	2.7	/	/	26600
HJSR41000B-16	2500	463.5	444	95.6	0.78	2.6	/	/	27250
HJSR41000C-16	2800	514.7	444	95.8	0.79	2.7	/	/	28120
HJSR41000D-16	3150	576.4	444	96.0	0.79	2.7	/	/	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.