



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



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

HJWR4355A-4	220	37.9	1767.6	92.7	0.87	3.0	422	337	3120
HJWR4355B-4	250	42.9	1770.0	93.0	0.87	3.1	474	339	3230
HJWR4355C-4	280	47.5	1766.4	93.1	0.88	2.7	474	381	3260
HJWR4355D-4	315	53.4	1770.0	93.2	0.88	2.9	542	373	3330
HJWR4400A-4	355	60.1	1765.2	93.3	0.88	2.4	474	482	3560
HJWR4400B-4	400	67.3	1768.8	93.8	0.88	2.6	542	471	3690
HJWR4400C-4	450	75.4	1773.6	94.2	0.88	2.9	632	450	3820
HJWR4400D-4	500	83.5	1777.2	94.5	0.88	3.3	739	426	3940
HJWR4400E-4	560	93.6	1774.8	94.5	0.88	2.9	739	479	3950
HJWR4450A-4	630	104.1	1768.8	94.5	0.89	2.3	632	636	4760
HJWR4450B-4	710	117.1	1768.8	94.7	0.89	2.2	690	656	4930
HJWR4450C-4	800	131.6	1770.0	94.9	0.89	2.3	759	670	5100
HJWR4450D-4	900	147.8	1771.2	95.1	0.89	2.2	843	677	5440
HJWR4500A-4	1000	161.8	1774.8	95.4	0.90	1.9	739	868	6000
HJWR4500B-4	1120	180.9	1776.0	95.6	0.90	2.0	821	871	6250
HJWR4500C-4	1250	201.4	1778.4	95.8	0.90	2.1	924	859	6410
HJWR4500D-4	1400	225.4	1780.8	95.9	0.90	2.2	1056	838	6680
HJWR4560A-4	1600	255.0	1780.8	95.8	0.91	2.3	1084	932	8000
HJWR4560B-4	1800	286.6	1779.6	95.9	0.91	2.1	1167	975	8210
HJWR4560C-4	2000	317.4	1782.0	96.2	0.91	2.3	1322	950	8400
HJWR4630A-4	2240	357.4	1779.6	95.7	0.91	2.2	1394	993	9950
HJWR4630B-4	2500	398.5	1780.8	95.8	0.91	2.3	1549	992	10300
HJWR4630C-4	2800	445.8	1782.0	95.9	0.91	2.3	1745	983	11000
HJWR4630D-4	3150	501.0	1783.2	96.0	0.91	2.4	1995	962	11700
HJWR4630E-4	3550	563.5	1783.2	96.2	0.91	2.4	2151	1006	12500
HJWR4710A-4	3550	568.5	1786.8	96.3	0.90	2.4	/	/	14400
HJWR4710B-4	4000	638.5	1786.8	96.5	0.90	2.5	/	/	14900
HJWR4710C-4	4500	717.6	1788.0	96.6	0.90	2.5	/	/	15450
HJWR4800A-4	5000	795.6	1786.8	96.6	0.90	2.5	/	/	17790
HJWR4800B-4	5600	886.2	1786.8	96.7	0.91	2.5	/	/	18550
HJWR4800C-4	6300	994.9	1785.6	96.8	0.91	2.5	/	/	19200
HJWR4900A-4	7100	1119.1	1789.2	97.3	0.91	2.4	/	/	24700
HJWR4900B-4	8000	1261.1	1789.2	97.4	0.91	2.3	/	/	25600
HJWR4900C-4	9000	1420.3	1789.2	97.4	0.90	2.3	/	/	26700



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MOTEURS DE HAUTE TENSION DE TROIS PHASE

Méthode de refroidissement IC81W, eau-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

6 Polig / 6 Pole / 6 Pôles

HJWR4400A-6	220	39.3	1177.2	92.5	0.84	2.6	410	350	3460
HJWR4400B-6	250	44.6	1178.4	92.7	0.84	2.6	456	357	3590
HJWR4400C-6	280	49.7	1179.6	93.1	0.84	2.6	513	353	3620
HJWR4400D-6	315	55.4	1177.2	93.0	0.85	2.3	513	400	3720
HJWR4400E-6	355	62.9	1179.6	93.3	0.84	2.5	586	393	3850
HJWR4400F-6	400	70.8	1180.8	93.5	0.84	2.6	652	396	3980
HJWR4450A-6	450	78.2	1178.4	94.1	0.85	2.0	559	523	4910
HJWR4450B-6	500	86.7	1178.4	94.3	0.85	1.9	602	539	5080
HJWR4450C-6	560	95.7	1178.4	94.5	0.86	1.9	652	557	5250
HJWR4450D-6	630	107.5	1178.4	94.7	0.86	1.9	712	574	5420
HJWR4500A-6	710	120.1	1179.6	94.4	0.87	2.0	652	707	5800
HJWR4500B-6	800	135.1	1179.6	94.6	0.87	2.0	712	729	5920
HJWR4500C-6	900	151.6	1180.8	94.8	0.87	2.0	783	744	6230
HJWR4500D-6	1000	167.9	1182.0	95.1	0.87	2.1	870	741	6420
HJWR4560A-6	1120	185.2	1182.0	95.5	0.88	2.2	862	733	7820
HJWR4560B-6	1250	204.1	1183.2	95.6	0.89	2.3	979	728	7990
HJWR4560C-6	1400	231.0	1185.6	95.7	0.88	2.5	1119	707	8130
HJWR4560D-6	1600	260.8	1185.6	95.8	0.89	2.5	1305	674	8270
HJWR4630A-6	1800	297.3	1183.2	95.6	0.88	2.4	1483	746	9850
HJWR4630B-6	2000	330.0	1184.4	95.7	0.88	2.4	1645	745	10150
HJWR4630C-6	2240	369.2	1184.4	95.8	0.88	2.4	1851	739	10750
HJWR4630D-6	2500	411.6	1185.6	95.9	0.88	2.5	2119	718	11500
HJWR4710A-6	2500	420.8	1186.8	96.0	0.86	2.6	/	/	13100
HJWR4710B-6	2800	467.0	1188.0	96.1	0.87	2.5	/	/	13600
HJWR4710C-6	3150	524.2	1188.0	96.2	0.87	2.5	/	/	14100
HJWR4710D-6	3550	588.8	1188.0	96.3	0.87	2.5	/	/	14700
HJWR4800A-6	4000	660.0	1189.2	96.8	0.87	2.6	/	/	17980
HJWR4800B-6	4500	739.9	1189.2	96.8	0.87	2.5	/	/	18400
HJWR4800C-6	5000	825.1	1190.4	96.9	0.87	2.6	/	/	18900
HJWR4900A-6	5600	927.0	1190.4	96.7	0.87	2.4	/	/	22900
HJWR4900B-6	6300	1042.9	1190.4	96.7	0.87	2.4	/	/	23450
HJWR4900C-6	7100	1172.8	1190.4	96.8	0.87	2.4	/	/	24200
HJWR41000A-6	8000	1315.7	1192.8	97.0	0.87	2.6	/	/	30400
HJWR41000B-6	9000	1475.4	1188.0	97.2	0.87	2.5	/	/	31600



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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

HJWR4400A-8	220	41.3	881	92.5	0.80	2.8	602	237	3720
HJWR4400B-8	250	46.3	881	92.7	0.81	2.7	652	249	3830
HJWR4400C-8	280	52.3	882	92.9	0.80	2.7	712	255	3940
HJWR4400D-8	315	57.6	880	92.7	0.82	2.4	712	290	3970
HJWR4450A-8	355	63.8	878	93.1	0.83	2.2	602	386	4530
HJWR4450B-8	400	71.8	878	93.2	0.83	2.1	652	402	4750
HJWR4450C-8	450	80.7	878	93.4	0.83	2.1	712	414	5040
HJWR4450D-8	500	89.4	880	93.6	0.83	2.2	783	417	5210
HJWR4500A-8	560	97.4	883	94.0	0.85	2.1	746	489	5880
HJWR4500B-8	630	109.3	883	94.2	0.85	2.2	829	494	6010
HJWR4500C-8	710	121.5	884	94.4	0.86	2.1	933	493	6320
HJWR4500D-8	800	136.5	886	94.7	0.86	2.2	1066	483	6510
HJWR4560A-8	900	155.5	886	94.6	0.85	2.2	1026	511	7720
HJWR4560B-8	1000	176.6	887	94.8	0.83	2.5	1172	514	7880
HJWR4560C-8	1120	192.5	887	95.1	0.85	2.7	1368	544	8030
HJWR4560D-8	1250	217.2	888	95.2	0.84	2.5	1424	556	8210
HJWR4630A-8	1400	238.6	886	94.8	0.86	2.4	1263	682	9150
HJWR4630B-8	1600	272.1	886	95.0	0.86	2.4	1377	715	9500
HJWR4630C-8	1800	305.2	886	95.3	0.86	2.5	1588	693	10250
HJWR4630D-8	2000	338.7	887	95.4	0.86	2.5	1767	692	11000
HJWR4710A-8	2000	348.8	892	96.0	0.83	2.5	/	/	12550
HJWR4710B-8	2240	390.6	892	96.0	0.83	2.6	/	/	12950
HJWR4710C-8	2500	433.4	892	96.1	0.83	2.5	/	/	13330
HJWR4710D-8	2800	486.0	892	96.1	0.83	2.5	/	/	14100
HJWR4800A-8	3150	535.9	890	97.0	0.84	2.3	/	/	18250
HJWR4800B-8	3550	602.6	890	97.1	0.84	2.3	/	/	18700
HJWR4900A-8	4000	671.9	892	97.2	0.85	2.3	/	/	22700
HJWR4900B-8	4500	755.9	892	97.2	0.85	2.4	/	/	23340
HJWR4900C-8	5000	838.1	892	97.3	0.85	2.4	/	/	23750
HJWR41000A-8	5600	922.9	892	96.8	0.87	2.4	/	/	25200
HJWR41000B-8	6300	1034.8	892	96.9	0.87	2.4	/	/	26100
HJWR41000C-8	7100	1166.2	892	96.9	0.87	2.4	/	/	27100



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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

10 Polig / 10 Poles / 10 Pôles

HJWR4450A-10	220	42.8	700	91.5	0.78	2.4	559	260	4270
HJWR4450B-10	250	48.6	700	91.7	0.78	2.3	602	275	4440
HJWR4450C-10	280	54.3	698	91.9	0.78	2.1	652	286	4780
HJWR4450D-10	315	60.1	700	92.2	0.79	2.2	712	293	4820
HJWR4450E-10	355	67.6	700	92.4	0.79	2.2	783	300	4950
HJWR4450F-10	400	76.0	701	92.6	0.79	2.3	870	303	5120
HJWR4500A-10	450	78.8	704	93.4	0.85	1.8	783	383	6050
HJWR4500B-10	500	88.4	706	93.6	0.84	1.9	870	381	6150
HJWR4500C-10	560	99.9	707	93.8	0.83	2.0	979	377	6320
HJWR4500D-10	630	112.1	707	94.1	0.83	2.1	1119	369	6420
HJWR4560A-10	710	127.9	707	94.1	0.82	2.1	979	478	7820
HJWR4560B-10	800	143.5	708	94.5	0.82	2.2	1119	468	7950
HJWR4560C-10	900	158.9	708	94.8	0.83	2.1	1233	478	8220
HJWR4560D-10	1000	176.8	708	94.7	0.83	2.1	1356	482	8410
HJWR4630A-10	1120	193.1	708	94.8	0.85	2.4	1360	500	9000
HJWR4630B-10	1250	215.3	708	94.9	0.85	2.4	1503	507	9550
HJWR4630C-10	1400	240.7	709	95.1	0.85	2.5	1666	510	9900
HJWR4630D-10	1600	274.5	709	95.3	0.85	2.4	1875	517	10650
HJWR4630E-10	1800	308.1	709	95.5	0.85	2.5	2149	507	11650
HJWR4710A-10	1800	323.9	709	95.1	0.81	2.6	/	/	13200
HJWR4710B-10	2000	359.9	709	95.1	0.81	2.4	/	/	13600
HJWR4710C-10	2240	402.1	709	95.2	0.81	2.5	/	/	14100
HJWR4800A-10	2500	446.3	712	95.5	0.82	2.3	/	/	18250
HJWR4800B-10	2800	495.7	712	95.6	0.82	2.4	/	/	18820
HJWR4800C-10	3150	555.7	712	95.7	0.82	2.4	/	/	19350
HJWR4900A-10	3550	619.8	712	96.0	0.83	2.2	/	/	21720
HJWR4900B-10	4000	695.1	713	96.1	0.83	2.4	/	/	22200
HJWR4900C-10	4500	783.2	713	96.3	0.83	2.3	/	/	22900
HJWR41000A-10	5000	868.3	710	96.4	0.83	2.4	/	/	24300
HJWR41000B-10	5600	970.3	710	96.5	0.83	2.4	/	/	24900
HJWR41000C-10	6300	1092.9	713	96.5	0.83	2.4	/	/	25800



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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

HJWR4450A-12	220	46.9	584	90.6	0.72	2.2	570	259	4630
HJWR4450B-12	250	52.4	584	90.8	0.73	2.2	651	256	4970
HJWR4450C-12	280	57.3	582	91.7	0.74	2.0	651	291	5010
HJWR4450D-12	315	64.4	582	91.9	0.74	2.0	602	335	5190
HJWR4500A-12	355	66.8	582	92.3	0.80	2.1	783	300	6090
HJWR4500B-12	400	76.1	582	92.5	0.79	2.1	870	309	6190
HJWR4500C-12	450	84.3	583	92.7	0.80	2.1	979	310	6410
HJWR4500D-12	500	93.6	584	92.8	0.80	2.1	1119	306	6560
HJWR4560A-12	560	105.3	587	93.5	0.79	2.4	1119	306	8210
HJWR4560B-12	630	118.1	588	93.8	0.79	2.5	1305	312	8420
HJWR4560C-12	710	131.2	589	94.0	0.80	2.6	1424	322	8580
HJWR4630A-12	800	148.9	589	93.3	0.80	2.4	1246	395	9350
HJWR4630B-12	900	167.4	589	93.4	0.80	2.4	1354	408	9600
HJWR4630C-12	1000	185.8	589	93.5	0.80	2.3	1486	412	9900
HJWR4630D-12	1120	207.8	590	93.6	0.80	2.3	1654	414	10450
HJWR4630E-12	1250	231.7	590	93.7	0.80	2.3	1861	410	10950
HJWR4710A-12	1250	221.3	589	94.8	0.83	2.4	/	/	12750
HJWR4710B-12	1400	247.3	590	94.9	0.83	2.4	/	/	13100
HJWR4710C-12	1600	285.0	590	94.9	0.82	2.3	/	/	13600
HJWR4710D-12	1800	321.5	590	95.0	0.82	2.5	/	/	14010
HJWR4800A-12	2000	357.2	590	95.0	0.82	2.4	/	/	17800
HJWR4800B-12	2240	400.6	590	95.1	0.82	2.4	/	/	18200
HJWR4800C-12	2500	444.0	590	95.3	0.82	2.4	/	/	18890
HJWR4900A-12	2800	501.3	590	95.7	0.81	2.2	/	/	22700
HJWR4900B-12	3150	568.0	592	95.6	0.81	2.3	/	/	23190
HJWR4900C-12	3550	639.6	592	95.8	0.81	2.3	/	/	24100
HJWR41000A-12	4000	704.5	593	96.1	0.82	2.3	/	/	24500
HJWR41000B-12	4500	793.6	593	96.2	0.82	2.3	/	/	25000
HJWR41000C-12	5000	887.6	594	96.4	0.81	2.3	/	/	25870
HJWR41000D-12	5600	983.3	594	96.5	0.82	2.3	/	/	26300



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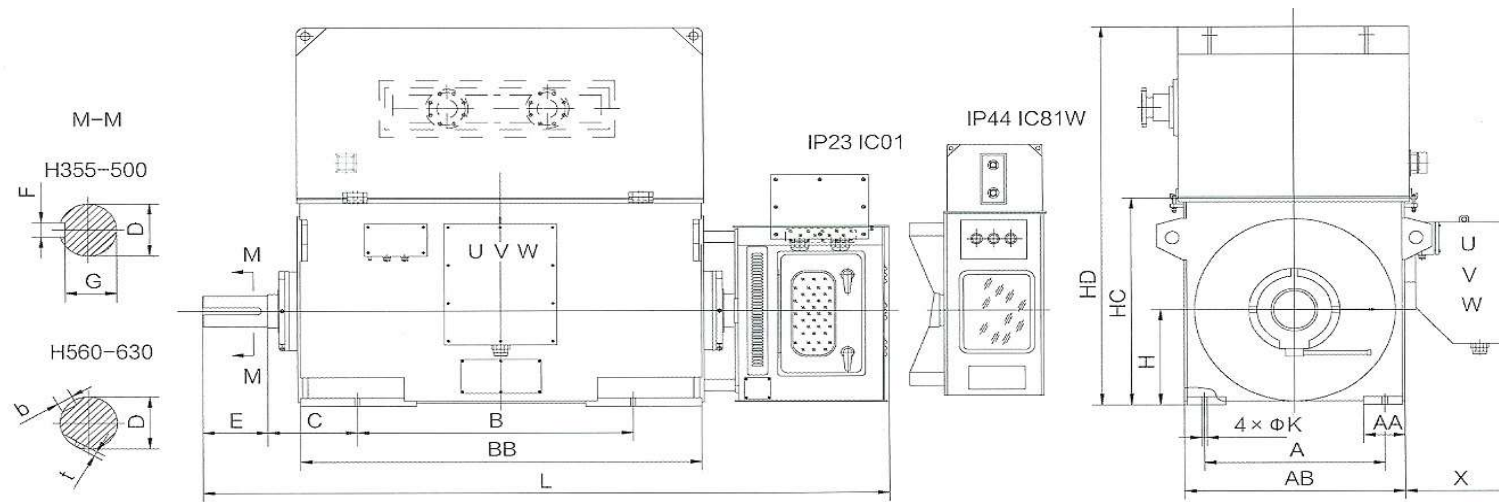
4.16 kV - 60 Hz - CL F - IP23, IP54

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

16 Polig / 16 Poles / 16 Pôles

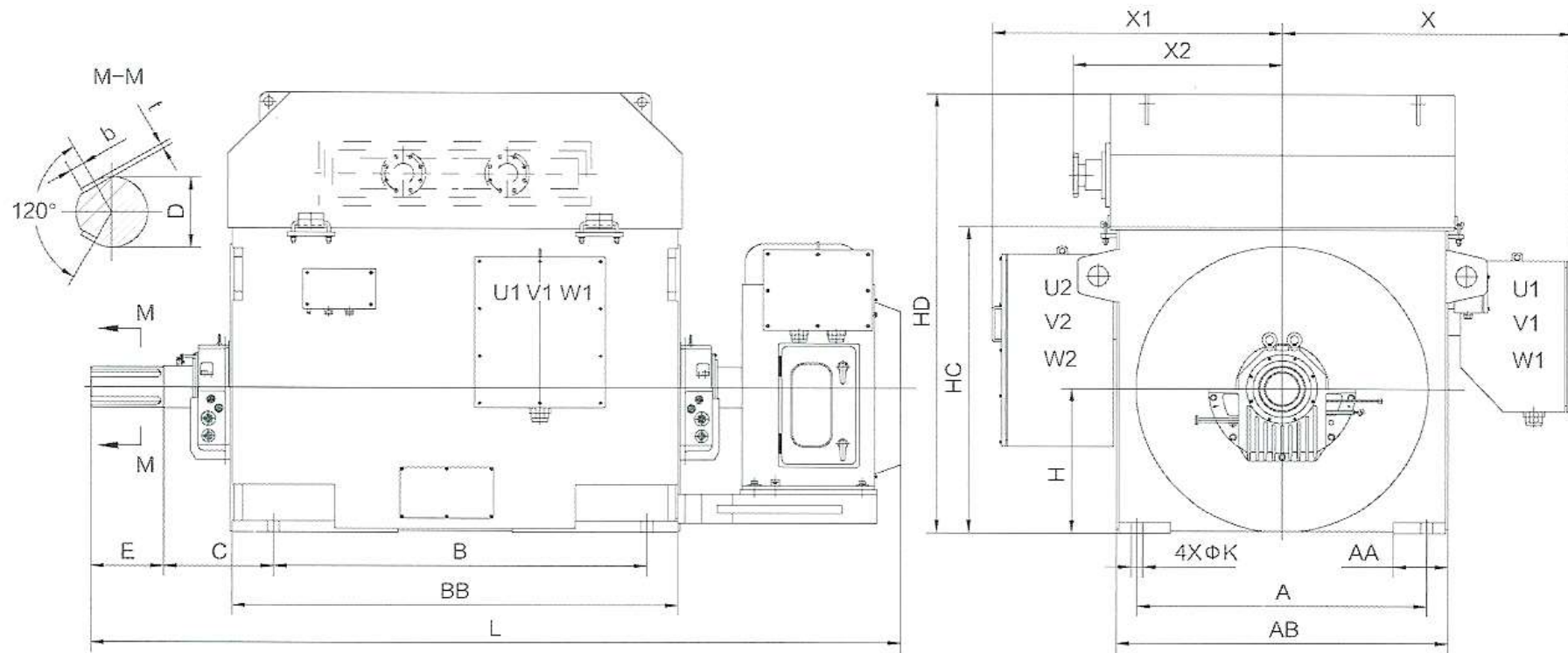
HJWR4710A-16	710	146.1	439	92.6	0.73	2.3	/	/	12550
HJWR4710B-16	800	163.9	439	92.9	0.73	2.2	/	/	12960
HJWR4710C-16	900	184.2	439	93.0	0.73	2.2	/	/	13420
HJWR4710D-16	1000	204.2	439	93.1	0.73	2.2	/	/	13980
HJWR4800A-16	1120	224.3	439	93.5	0.74	2.3	/	/	17500
HJWR4800B-16	1250	249.8	440	93.6	0.74	2.3	/	/	18000
HJWR4800C-16	1400	278.0	440	93.8	0.75	2.3	/	/	18590
HJWR4900A-16	1600	303.7	442	94.1	0.78	2.3	/	/	22500
HJWR4900B-16	1800	339.1	442	94.2	0.78	2.3	/	/	23000
HJWR4900C-16	2000	369.7	442	94.2	0.80	2.4	/	/	23700
HJWR4900D-16	2240	413.6	443	94.3	0.80	2.3	/	/	24200
HJWR41000A-16	2500	458.9	443	94.5	0.80	2.3	/	/	25300
HJWR41000B-16	2800	511.7	443	94.8	0.80	2.3	/	/	25910
HJWR41000C-16	3150	571.6	443	95.0	0.81	2.3	/	/	26600
HJWR41000D-16	3350	607.3	444	95.1	0.81	2.3	/	/	27120

Overall mounting dimensions for HJWR (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
HJWR4355-4	630	800	900	160	1420	315	100	210	28	90	/	/	355	28	755	2100	2435	445
HJWR4400-4-8	710	900	1000	170	1570	335	110	210	28	100	/	/	400	35	850	2200	2585	445
HJWR4450-4	800	1000	1120	190	1720	355	120	210	32	109	/	/	450	35	950	2340	2750	445
HJWR4450-6-12	800	1000	1120	190	1720	355	130	250	32	119	/	/	450	35	950	2340	2830	445
HJWR4500-4	900	1120	1250	200	1820	475	130	250	32	119	/	/	500	42	1060	2500	2930	445
HJWR4500-6-12	900	1120	1250	200	1820	475	140	250	36	128	/	/	500	42	1060	2500	2930	445
HJWR4560-4	1000	1250	1400	230	1970	500	150	250	/	/	11.4	39.7	560	42	1185	2675	3150	510
HJWR4560-6-12	1000	1250	1400	230	1970	500	160	300	/	/	12.4	42.8	560	42	1185	2675	3150	510
HJWR4630-4	1120	1400	1600	240	2120	530	170	300	/	/	12.4	44.2	630	48	1330	2825	3340	510
HJWR4630-6-12	1120	1400	1600	240	2120	530	180	300	/	/	12.4	45.6	630	48	1330	2825	3340	510

Overall mounting dimensions for HJWR (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
HJWR4710-4..16	1400	1800	530	1600	262	2150/2330	200	350	51	14	710	56	1510	2500	4160	1400	1400/990
HJWR4800-4..16	1600	2000	530	1800	292	2350/2500	220	350	57.1	16	800	56	1700	2800	4330	1500	1500/1090
HJWR4900-4..16	1800	2000/2200	600	2000	302	2500/2700	250	410	64.6	18	900	66	1912	3100	4640	1600	1600/1200
HJWR41000-4..16	2000	2000/2200	600	2240	332	2500/2700	280	470	72.1	20	1000	66	2120	3300	4700	1720	1720/1320

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.