



## 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, IP54**

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	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 $\varphi$	MK / MN	V	A	kg

### 4 Polig / 4 Poles / 4 Pôles

HJWR1400A-4	200	11.0	1780	91.5	0.83	3.1	486	264	3520
HJWR1400B-4	220	12.0	1778	91.8	0.84	3.2	486	290	3540
HJWR1400C-4	250	13.2	1776	92.0	0.86	3.2	486	330	3560
HJWR1400D-4	280	14.5	1776	92.7	0.87	3.2	527	340	3650
HJWR1400E-4	315	16.8	1777	92.6	0.85	3.1	575	350	3680
HJWR1400F-4	355	18.8	1777	93.0	0.85	3.1	632	357	3780
HJWR1400G-4	400	21.4	1780	93.3	0.84	3.2	703	361	3910
HJWR1400H-4	450	23.5	1777	93.4	0.86	3.1	703	408	3940
HJWR1450A-4	500	25.3	1769	93.9	0.88	2.1	575	560	4760
HJWR1450B-4	560	28.3	1770	94.3	0.88	2.1	632	568	4930
HJWR1450C-4	630	31.7	1772	94.6	0.88	2.2	703	571	5100
HJWR1450D-4	710	35.6	1775	94.9	0.88	2.3	790	568	5270
HJWR1500A-4	800	39.9	1772	94.3	0.89	1.9	767	649	6010
HJWR1500B-4	900	44.7	1774	94.7	0.89	2.0	820	681	6260
HJWR1500C-4	1000	49.6	1776	94.9	0.89	2.1	949	651	6420
HJWR1500D-4	1120	54.8	1778	95.1	0.90	2.2	1028	671	6700
HJWR1560A-4	1250	61.2	1782	95.1	0.90	2.5	973	815	7750
HJWR1560B-4	1400	68.4	1782	95.2	0.90	2.5	1054	841	7920
HJWR1560C-4	1600	78.1	1782	95.4	0.90	2.5	1150	878	8160
HJWR1560D-4	1800	87.7	1783	95.5	0.90	2.6	1265	896	8410
HJWR1630A-4	2000	97.5	1781	95.5	0.90	2.4	1437	846	9750
HJWR1630B-4	2240	109.0	1783	95.6	0.90	2.4	1536	887	10100
HJWR1630C-4	2500	120.2	1783	95.7	0.91	2.5	1775	852	10850
HJWR1630D-4	2800	134.5	1783	95.8	0.91	2.5	1922	880	11300
HJWR1630E-4	3150	151.0	1784	96.0	0.91	2.5	2103	904	12000
HJWR1710A-4	3150	152.9	1784	96.1	0.90	2.6	/	/	14500
HJWR1710B-4	3550	171.9	1784	96.2	0.90	2.6	/	/	15050
HJWR1710C-4	4000	193.3	1784	96.3	0.90	2.5	/	/	15600
HJWR1800A-4	4500	217.5	1784	96.3	0.90	2.6	/	/	17980
HJWR1800B-4	5000	239.0	1787	96.6	0.91	2.5	/	/	18710
HJWR1800C-4	5600	266.9	1787	96.7	0.91	2.6	/	/	19420
HJWR1900A-4	6300	301.9	1789	96.7	0.90	2.4	/	/	24500
HJWR1900B-4	7100	340.2	1789	96.8	0.90	2.4	/	/	25500
HJWR1900C-4	8000	383.4	1789	96.9	0.90	2.4	/	/	26800



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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, IP54**

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	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

### 6 Polig / 6 Pole / 6 Pôles

HJWR1400A-6	200	11.5	1180	91.1	0.80	2.8	466	282	3730
HJWR1400B-6	220	12.4	1180	91.5	0.81	2.8	502	287	3860
HJWR1400C-6	250	13.9	1180	91.8	0.82	2.7	544	301	3990
HJWR1400D-6	280	15.5	1181	92.2	0.82	2.7	593	308	4120
HJWR1450A-6	315	17.0	1178	92.5	0.84	2.6	544	375	4910
HJWR1450B-6	355	19.2	1175	92.4	0.84	2.3	544	426	4940
HJWR1450C-6	400	21.3	1176	92.7	0.85	2.3	593	439	5080
HJWR1450D-6	450	23.8	1176	93.0	0.85	2.4	652	447	5250
HJWR1450E-6	500	26.4	1177	93.4	0.85	2.3	725	445	5590
HJWR1450F-6	560	29.5	1180	93.7	0.85	2.5	816	441	5760
HJWR1500A-6	630	33.1	1178	93.7	0.85	1.9	652	635	5600
HJWR1500B-6	710	37.3	1177	93.9	0.85	1.9	724	640	5800
HJWR1500C-6	800	41.9	1178	94.1	0.85	1.9	816	637	5950
HJWR1500D-6	900	47.0	1180	94.4	0.85	1.9	932	634	6250
HJWR1560A-6	1000	50.9	1182	94.6	0.87	2.1	932	687	7600
HJWR1560B-6	1120	56.3	1182	94.7	0.88	2.2	1087	653	7830
HJWR1560C-6	1250	62.6	1184	95.1	0.88	2.4	1243	635	8150
HJWR1560D-6	1400	69.2	1182	95.2	0.89	2.2	1305	679	8280
HJWR1630A-6	1600	80.7	1188	95.4	0.87	2.4	1148	860	9800
HJWR1630B-6	1800	90.7	1188	95.5	0.87	2.5	1261	877	10100
HJWR1630C-6	2000	100.7	1189	95.6	0.87	2.5	1404	874	10700
HJWR1630D-6	2240	112.7	1189	95.7	0.87	2.5	1580	866	11300
HJWR1710A-6	2500	127.4	1188	96.1	0.86	2.5	/	/	13500
HJWR1710B-6	2800	142.8	1189	96.2	0.85	2.5	/	/	14080
HJWR1710C-6	3150	160.0	1189	96.2	0.86	2.5	/	/	14760
HJWR1800A-6	3550	177.6	1189	96.7	0.87	2.7	/	/	17900
HJWR1800B-6	4000	199.4	1189	96.7	0.87	2.7	/	/	18420
HJWR1800C-6	4500	224.6	1190	96.8	0.87	2.6	/	/	19100
HJWR1900A-6	5000	248.3	1190	96.3	0.88	2.5	/	/	22900
HJWR1900B-6	5600	276.8	1192	96.5	0.88	2.5	/	/	23450
HJWR1900C-6	6300	310.1	1192	96.6	0.88	2.5	/	/	24100
HJWR11000A-6	7100	350.8	1192	97.0	0.87	2.5	/	/	30600
HJWR11000B-6	8000	393.5	1193	97.2	0.88	2.5	/	/	31870



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Typ	Nennleistung	N-strom 13.8 kV	Nenn-drehzahl	Wirkungs-grad	Leistungs-faktor	Kippmoment	Rotor Spannung	Rotor Strom	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

### 8 Polig / 8 Poles / 8 Pôles

HJWR1450A-8	200	11.2	882	92.1	0.81	2.6	488	267	4530
HJWR1450B-8	220	12.2	880	92.0	0.82	2.3	488	296	4560
HJWR1450C-8	250	13.7	877	91.9	0.83	2.0	488	341	4580
HJWR1450D-8	280	15.4	876	92.0	0.83	2.0	526	354	4700
HJWR1450E-8	315	17.2	876	92.3	0.83	1.9	570	368	4870
HJWR1450F-8	355	19.4	877	92.5	0.83	1.9	622	379	5040
HJWR1450G-8	400	21.5	877	92.8	0.84	1.9	684	388	5210
HJWR1450H-8	450	24.4	878	93.0	0.83	2.0	760	391	5380
HJWR1500A-8	500	27.8	884	93.1	0.81	1.8	725	454	5910
HJWR1500B-8	560	31.0	884	93.5	0.81	1.8	816	449	6050
HJWR1500C-8	630	34.7	886	93.8	0.81	1.8	932	438	6350
HJWR1500D-8	710	39.1	887	94.0	0.81	1.8	1087	421	6530
HJWR1560A-8	800	43.4	887	94.2	0.82	2.0	932	494	7780
HJWR1560B-8	900	47.5	887	94.4	0.84	2.1	1004	518	7920
HJWR1560C-8	1000	52.7	887	94.7	0.84	2.1	1087	537	8080
HJWR1560D-8	1120	59.6	887	94.8	0.83	2.1	1186	547	8330
HJWR1630A-8	1250	65.1	888	94.6	0.85	2.3	1137	677	8750
HJWR1630B-8	1400	72.8	888	94.8	0.85	2.3	1255	687	9400
HJWR1630C-8	1600	83.1	889	94.9	0.85	2.4	1396	706	10050
HJWR1630D-8	1800	93.3	889	95.1	0.85	2.5	1570	703	10650
HJWR1710A-8	1800	95.0	890	95.8	0.83	2.5	/	/	12600
HJWR1710B-8	2000	105.9	890	95.8	0.83	2.5	/	/	13000
HJWR1710C-8	2240	118.3	890	95.9	0.83	2.5	/	/	13420
HJWR1800A-8	2500	130.2	892	96.3	0.84	2.5	/	/	18060
HJWR1800B-8	2800	146.4	892	96.3	0.83	2.5	/	/	18530
HJWR1800C-8	3150	165.1	892	96.4	0.83	2.5	/	/	18900
HJWR1900A-8	3550	181.4	893	97.0	0.85	2.4	/	/	22950
HJWR1900B-8	4000	203.5	893	97.1	0.85	2.4	/	/	23460
HJWR1900C-8	4500	228.9	893	97.2	0.85	2.5	/	/	23930
HJWR11000A-8	5000	251.7	892	97.2	0.86	2.4	/	/	25400
HJWR11000B-8	5600	281.3	892	97.3	0.86	2.4	/	/	26160
HJWR11000C-8	6300	316.5	892	97.3	0.86	2.5	/	/	27330



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## MOTEURS DE HAUTE TENSION DE TROIS PHASE

Méthode de refroidissement IC81W, eau-air de refroidissement

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



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	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

### 10 Polig / 10 Poles / 10 Pôles

HJWR1450A-10	200	13.1	703	91.3	0.70	2.5	507	267	4610
HJWR1450B-10	220	14.2	703	91.5	0.71	2.5	543	274	4780
HJWR1450C-10	250	15.7	703	91.6	0.73	2.4	585	289	4950
HJWR1450D-10	280	17.5	703	91.8	0.73	2.3	633	299	5120
HJWR1450E-10	315	19.9	703	92.0	0.72	2.3	691	309	5290
HJWR1450F-10	355	22.1	703	92.2	0.73	2.3	631	352	5440
HJWR1500A-10	400	24.3	702	92.1	0.75	2.0	633	383	6020
HJWR1500B-10	450	27.1	702	92.6	0.75	1.9	691	395	6190
HJWR1500C-10	500	30.1	703	92.8	0.75	2.0	760	404	6320
HJWR1500D-10	560	33.2	703	93.1	0.76	1.9	845	450	6450
HJWR1560A-10	630	35.8	708	93.2	0.79	2.3	1087	379	7730
HJWR1560B-10	710	40.3	708	93.4	0.79	2.3	1186	392	7980
HJWR1560C-10	800	44.2	708	93.7	0.81	2.2	1305	401	8200
HJWR1560D-10	900	50.2	709	93.8	0.80	2.3	1450	405	8420
HJWR1630A-10	1000	54.2	706	94.3	0.82	2.4	1241	492	8900
HJWR1630B-10	1120	60.5	707	94.5	0.82	2.4	1382	494	9350
HJWR1630C-10	1250	66.6	707	94.7	0.83	2.5	1554	488	9900
HJWR1630D-10	1400	74.5	709	94.8	0.83	2.5	1781	476	10600
HJWR1630E-10	1600	85.0	710	95.0	0.83	2.5	2082	464	11700
HJWR1710A-10	1600	85.2	712	94.8	0.83	2.6	/	/	13400
HJWR1710B-10	1800	95.6	710	94.9	0.83	2.6	/	/	13800
HJWR1710C-10	2000	105.7	713	94.9	0.84	2.6	/	/	14250
HJWR1800A-10	2240	120.8	710	95.2	0.82	2.4	/	/	18400
HJWR1800B-10	2500	134.5	710	95.3	0.82	2.4	/	/	18960
HJWR1800C-10	2800	150.1	710	95.4	0.82	2.4	/	/	19600
HJWR1900A-10	3150	165.9	712	95.8	0.83	2.4	/	/	21800
HJWR1900B-10	3550	186.6	713	95.9	0.83	2.4	/	/	22340
HJWR1900C-10	4000	210.0	713	95.8	0.83	2.5	/	/	23030
HJWR11000A-10	4500	236.0	710	96.0	0.83	2.5	/	/	24450
HJWR11000B-10	5000	262.3	712	96.1	0.83	2.5	/	/	25020
HJWR11000C-10	5600	294.1	712	96.1	0.83	2.5	/	/	25990



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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, IP54**



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	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

### 12 Polig / 12 Poles / 12 Pôles

HJWR1500A-12	200	12.9	586	90.4	0.72	2.3	495	248	5620
HJWR1500B-12	220	13.9	586	90.7	0.73	2.3	543	250	5790
HJWR1500C-12	250	15.8	586	91.0	0.73	2.2	585	255	5880
HJWR1500D-12	280	17.6	586	91.3	0.73	2.2	633	268	6000
HJWR1500E-12	315	19.8	587	91.4	0.73	2.2	691	275	6120
HJWR1500F-12	355	21.9	587	91.9	0.74	2.2	760	281	6240
HJWR1500G-12	400	24.6	587	92.0	0.74	2.2	844	284	6410
HJWR1560A-12	450	27.7	588	92.0	0.74	2.4	760	351	7280
HJWR1560B-12	500	31.1	588	92.2	0.73	2.4	844	354	7780
HJWR1560C-12	560	34.3	589	92.5	0.74	2.5	950	348	7810
HJWR1560D-12	630	37.5	588	92.6	0.76	2.2	950	394	8280
HJWR1560E-12	710	42.1	588	92.9	0.76	2.3	1085	385	8420
HJWR1630A-12	800	45.1	587	92.9	0.80	2.4	1238	398	9150
HJWR1630B-12	900	50.6	588	93.1	0.80	2.5	1378	402	9600
HJWR1630C-12	1000	56.1	588	93.3	0.80	2.5	1549	395	10150
HJWR1630D-12	1120	62.7	589	93.5	0.80	2.5	1774	385	10750
HJWR1710A-12	1120	60.2	590	95.1	0.82	2.6	/	/	12820
HJWR1710B-12	1250	67.1	590	95.1	0.82	2.6	/	/	13190
HJWR1710C-12	1400	75.1	592	95.2	0.82	2.6	/	/	13710
HJWR1710D-12	1600	86.1	592	95.2	0.82	2.6	/	/	14230
HJWR1800A-12	1800	97.1	590	95.3	0.82	2.4	/	/	17890
HJWR1800B-12	2000	107.9	593	95.3	0.82	2.4	/	/	18310
HJWR1800C-12	2240	120.4	592	95.4	0.82	2.4	/	/	19330
HJWR1900A-12	2500	134.5	593	95.4	0.82	2.1	/	/	22960
HJWR1900B-12	2800	150.5	593	95.5	0.82	2.2	/	/	23370
HJWR1900C-12	3150	169.1	593	95.5	0.82	2.2	/	/	24160
HJWR11000A-12	3550	188.2	592	95.9	0.82	2.4	/	/	24750
HJWR11000B-12	4000	211.5	593	96.0	0.83	2.5	/	/	25140
HJWR11000C-12	4500	237.5	593	96.1	0.83	2.5	/	/	25980
HJWR11000D-12	5000	263.9	593	96.2	0.83	2.5	/	/	26700



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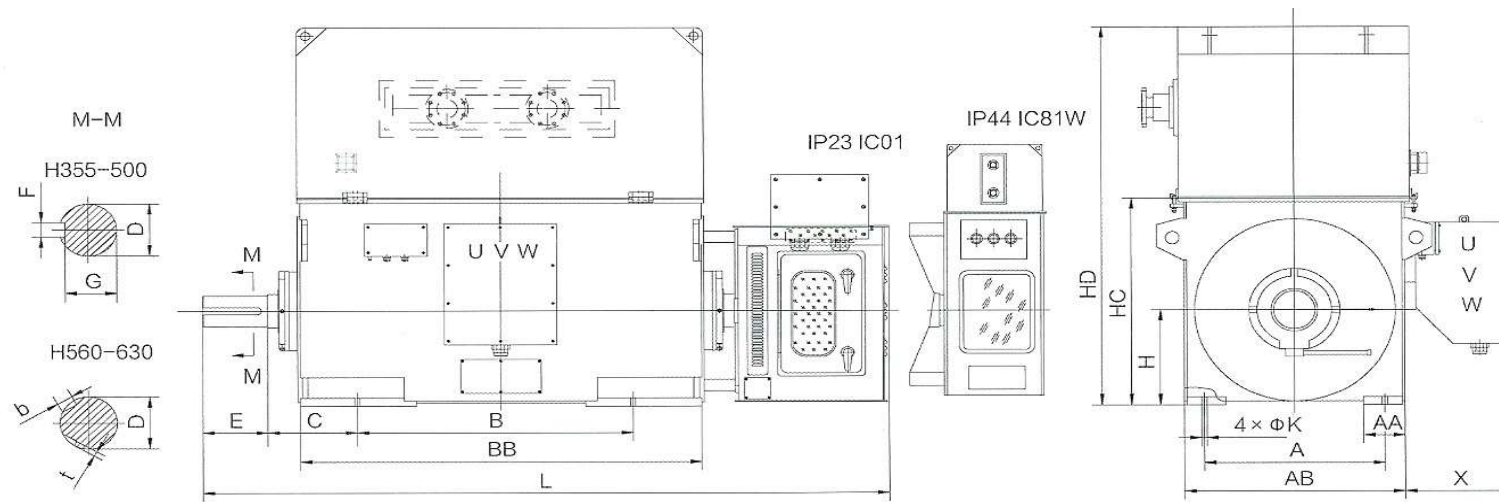
Typ	Nennleistung	N-strom 13.8 kV	Nenn- drehzahl	Wirkungs- grad	Leistungs- faktor	Kipp- moment	Rotor Spannung	Rotor Strom	Gewicht
Type	Rated output	Current 13.8 kV	Rated speed	Efficiency %	Power factor	B-down Torque	Rotor voltage	Rotor current	Weight
Type	Puissance nominale	Intensité 13.8 kV	Vitesse nominale	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

HJWR1710A-16	630	39.8	439	92.1	0.72	2.3	/	/	12620
HJWR1710B-16	710	44.7	439	92.2	0.72	2.3	/	/	12990
HJWR1710C-16	800	50.4	439	92.4	0.72	2.3	/	/	13510
HJWR1710D-16	900	56.8	439	92.5	0.72	2.3	/	/	13930
HJWR1800A-16	1000	61.1	439	93.3	0.74	2.3	/	/	17590
HJWR1800B-16	1120	68.2	439	93.5	0.74	2.3	/	/	18010
HJWR1800C-16	1250	75.9	440	93.6	0.74	2.3	/	/	18730
HJWR1900A-16	1400	80.2	442	94.2	0.78	2.1	/	/	22760
HJWR1900B-16	1600	91.3	442	94.3	0.78	2.2	/	/	23170
HJWR1900C-16	1800	102.9	442	94.3	0.78	2.2	/	/	24060
HJWR1900D-16	2000	111.8	443	94.4	0.79	2.3	/	/	24550
HJWR11000A-16	2240	124.4	443	94.6	0.80	2.3	/	/	25140
HJWR11000B-16	2500	137.9	443	94.8	0.80	2.3	/	/	25680
HJWR11000C-16	2800	153.4	443	95.1	0.80	2.4	/	/	26500
HJWR11000D-16	3150	171.8	443	95.3	0.81	2.4	/	/	27120

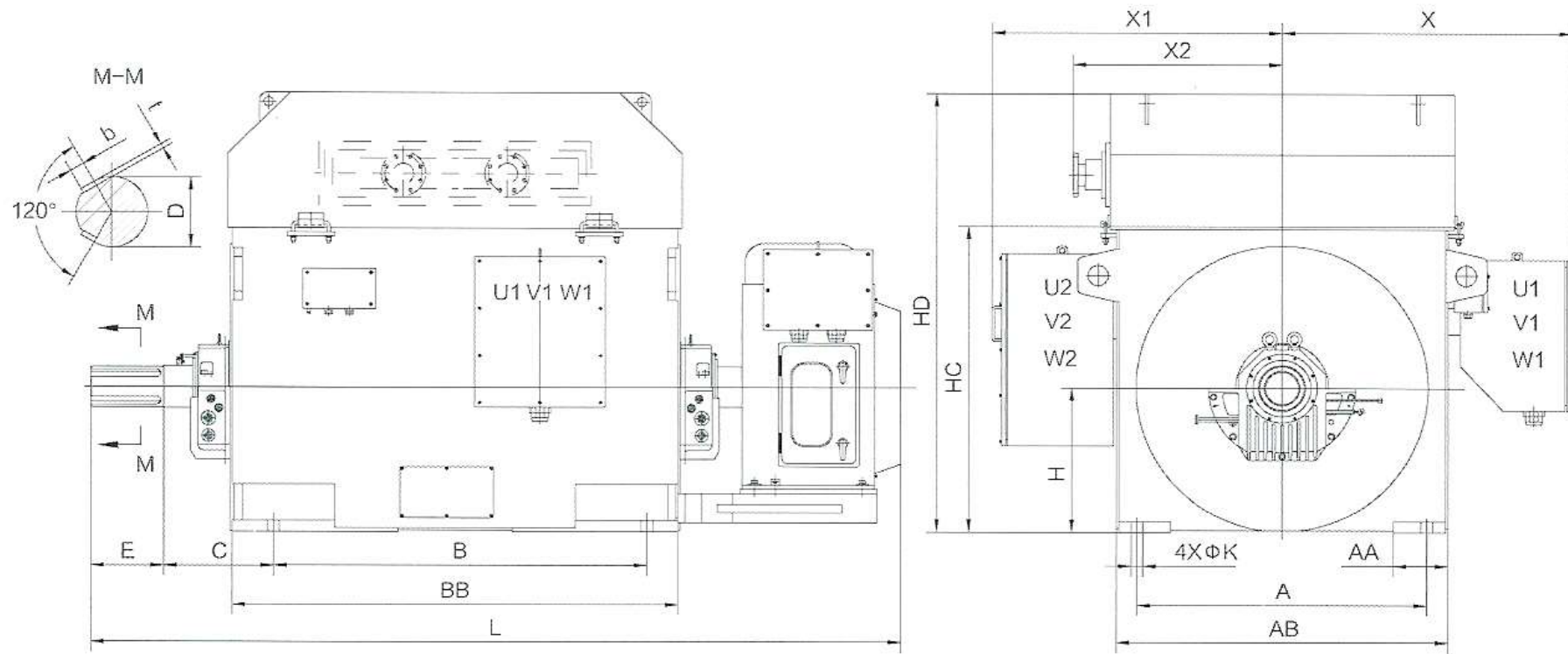


Overall mounting dimensions for HJWR (13.8 kV) series of slipring high-voltage three-phase motors.



Frame	A	AB	B	AA	BB	C	D	E	F	G	t	b	H	K	HC	HD	L	X
HJWR1355-4	630	800	900	160	1420	315	100	210	28	90	/	/	355	28	755	2100	2435	445
HJWR1400-4-8	710	900	1000	170	1570	335	110	210	28	100	/	/	400	35	850	2200	2585	445
HJWR1450-4	800	1000	1120	190	1720	355	120	210	32	109	/	/	450	35	950	2340	2750	445
HJWR1450-6-12	800	1000	1120	190	1720	355	130	250	32	119	/	/	450	35	950	2340	2830	445
HJWR1500-4	900	1120	1250	200	1820	475	130	250	32	119	/	/	500	42	1060	2500	2930	445
HJWR1500-6-12	900	1120	1250	200	1820	475	140	250	36	128	/	/	500	42	1060	2500	2930	445
HJWR1560-4	1000	1250	1400	230	1970	500	150	250	/	/	11.4	39.7	560	42	1185	2675	3150	510
HJWR1560-6-12	1000	1250	1400	230	1970	500	160	300	/	/	12.4	42.8	560	42	1185	2675	3150	510
HJWR1630-4	1120	1400	1600	240	2120	530	170	300	/	/	12.4	44.2	630	48	1330	2825	3340	510
HJWR1630-6-12	1120	1400	1600	240	2120	530	180	300	/	/	12.4	45.6	630	48	1330	2825	3340	510

Overall mounting dimensions for HJWR (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
HJWR1710-4..16	1400	1800	530	1600	262	2150/2330	200	350	51	14	710	56	1510	2500	4160	1400	1400/990
HJWR1800-4..16	1600	2000	530	1800	292	2350/2500	220	350	57.1	16	800	56	1700	2800	4330	1500	1500/1090
HJWR1900-4..16	1800	2000/2200	600	2000	302	2500/2700	250	410	64.6	18	900	66	1912	3100	4640	1600	1600/1200
HJWR11000-4..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.