



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

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

4 Polig / 4 Poles / 4 Pôles

HJWR4355A-4	220	38	1767.6	92.7	0.87	3.0	422	337	5	3120
HJWR4355B-4	250	43	1770.0	93.0	0.87	3.1	474	339	6	3230
HJWR4355C-4	280	47	1766.4	93.1	0.88	2.7	474	381	6	3260
HJWR4355D-4	315	53	1770.0	93.2	0.88	2.9	542	373	7	3330
HJWR4400A-4	355	60	1765.2	93.3	0.88	2.4	474	482	10	3560
HJWR4400B-4	400	67	1768.8	93.8	0.88	2.6	542	471	11	3690
HJWR4400C-4	450	75	1773.6	94.2	0.88	2.9	632	450	12	3820
HJWR4400D-4	500	84	1777.2	94.5	0.88	3.3	739	426	13	3940
HJWR4400E-4	560	94	1774.8	94.5	0.88	2.9	739	479	14	3950
HJWR4450A-4	630	104	1768.8	94.5	0.89	2.3	632	636	16	4760
HJWR4450B-4	710	117	1768.8	94.7	0.89	2.2	690	656	17	4930
HJWR4450C-4	800	132	1770.0	94.9	0.89	2.3	759	670	19	5100
HJWR4450D-4	900	148	1771.2	95.1	0.89	2.2	843	677	22	5440
HJWR4500A-4	1000	162	1774.8	95.4	0.90	1.9	739	868	31	6000
HJWR4500B-4	1120	181	1776.0	95.6	0.90	2.0	821	871	34	6250
HJWR4500C-4	1250	201	1778.4	95.8	0.90	2.1	924	859	37	6410
HJWR4500D-4	1400	225	1780.8	95.9	0.90	2.2	1056	838	43	6680
HJWR4560A-4	1600	255	1780.8	95.8	0.91	2.3	1084	932	64	8000
HJWR4560B-4	1800	287	1779.6	95.9	0.91	2.1	1167	975	73	8210
HJWR4560C-4	2000	317	1782.0	96.2	0.91	2.3	1322	950	79	8400
HJWR4630A-4	2240	357	1779.6	95.7	0.91	2.2	1394	993	121	9950
HJWR4630B-4	2500	398	1780.8	95.8	0.91	2.3	1549	992	131	10300
HJWR4630C-4	2800	446	1782.0	95.9	0.91	2.3	1745	983	149	11000
HJWR4630D-4	3150	501	1783.2	96.0	0.91	2.4	1995	962	168	11700
HJWR4630E-4	3550	563	1783.2	96.2	0.91	2.4	2151	1006	187	12500
HJWR4710A-4	3550	569	1786.8	96.3	0.90	2.4	/	/	201	14400
HJWR4710B-4	4000	639	1786.8	96.5	0.90	2.5	/	/	233	14900
HJWR4710C-4	4500	718	1788.0	96.6	0.90	2.5	/	/	255	15450
HJWR4800A-4	5000	796	1786.8	96.6	0.90	2.5	/	/	286	17790
HJWR4800B-4	5600	886	1786.8	96.7	0.91	2.5	/	/	381	18550
HJWR4800C-4	6300	995	1785.6	96.8	0.91	2.5	/	/	402	19200
HJWR4900A-4	7100	1119	1789.2	97.3	0.91	2.4	/	/	455	24700
HJWR4900B-4	8000	1261	1789.2	97.4	0.91	2.3	/	/	494	25600
HJWR4900C-4	9000	1420	1789.2	97.4	0.90	2.3	/	/	550	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

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
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6 Polig / 6 Pole / 6 Pôles

HJWR4400A-6	220	39	1177	92.5	0.84	2.6	410	350	12	3460
HJWR4400B-6	250	45	1178	92.7	0.84	2.6	456	357	13	3590
HJWR4400C-6	280	50	1180	93.1	0.84	2.6	513	353	14	3620
HJWR4400D-6	315	55	1177	93.0	0.85	2.3	513	400	14	3720
HJWR4400E-6	355	63	1180	93.3	0.84	2.5	586	393	16	3850
HJWR4400F-6	400	71	1181	93.5	0.84	2.6	652	396	17	3980
HJWR4450A-6	450	78	1178	94.1	0.85	2.0	559	523	26	4910
HJWR4450B-6	500	87	1178	94.3	0.85	1.9	602	539	29	5080
HJWR4450C-6	560	96	1178	94.5	0.86	1.9	652	557	31	5250
HJWR4450D-6	630	107	1178	94.7	0.86	1.9	712	574	33	5420
HJWR4500A-6	710	120	1180	94.4	0.87	2.0	652	707	38	5800
HJWR4500B-6	800	135	1180	94.6	0.87	2.0	712	729	42	5920
HJWR4500C-6	900	152	1181	94.8	0.87	2.0	783	744	46	6230
HJWR4500D-6	1000	168	1182	95.1	0.87	2.1	870	741	49	6420
HJWR4560A-6	1120	185	1182	95.5	0.88	2.2	862	733	82	7820
HJWR4560B-6	1250	204	1183	95.6	0.89	2.3	979	728	87	7990
HJWR4560C-6	1400	231	1186	95.7	0.88	2.5	1119	707	99	8130
HJWR4560D-6	1600	261	1186	95.8	0.89	2.5	1305	674	113	8270
HJWR4630A-6	1800	297	1183	95.6	0.88	2.4	1483	746	173	9850
HJWR4630B-6	2000	330	1184	95.7	0.88	2.4	1645	745	184	10150
HJWR4630C-6	2240	369	1184	95.8	0.88	2.4	1851	739	206	10750
HJWR4630D-6	2500	412	1186	95.9	0.88	2.5	2119	718	238	11500
HJWR4710A-6	2500	421	1187	96.0	0.86	2.6	/	/	260	13100
HJWR4710B-6	2800	467	1188	96.1	0.87	2.5	/	/	286	13600
HJWR4710C-6	3150	524	1188	96.2	0.87	2.5	/	/	316	14100
HJWR4710D-6	3550	589	1188	96.3	0.87	2.5	/	/	374	14700
HJWR4800A-6	4000	660	1189	96.8	0.87	2.6	/	/	479	17980
HJWR4800B-6	4500	740	1189	96.8	0.87	2.5	/	/	516	18400
HJWR4800C-6	5000	825	1190	96.9	0.87	2.6	/	/	550	18900
HJWR4900A-6	5600	927	1190	96.7	0.87	2.4	/	/	603	22900
HJWR4900B-6	6300	1043	1190	96.7	0.87	2.4	/	/	680	23450
HJWR4900C-6	7100	1173	1190	96.8	0.87	2.4	/	/	723	24200
HJWR41000A-6	8000	1316	1193	97.0	0.87	2.6	/	/	1060	30400
HJWR41000B-6	9000	1475	1188	97.2	0.87	2.5	/	/	1200	31600





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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	Jmotor	Weight
Type	Puissance nominale	Intensité 4.16 kV	Vitesse nominale	Rendement %	Facteur de puissance	Couple maximal	Voltage Rotor	Courant Rotor		Masse
	KW	A	r/min	%	cos φ	MK / MN	V	A	kg.m2	kg

8 Polig / 8 Poles / 8 Pôles

HJWR4400A-8	220	41	881	92.5	0.80	2.8	602	237	18	3720
HJWR4400B-8	250	46	881	92.7	0.81	2.7	652	249	19	3830
HJWR4400C-8	280	52	882	92.9	0.80	2.7	712	255	21	3940
HJWR4400D-8	315	58	880	92.7	0.82	2.4	712	290	21	3970
HJWR4450A-8	355	64	878	93.1	0.83	2.2	602	386	29	4530
HJWR4450B-8	400	72	878	93.2	0.83	2.1	652	402	32	4750
HJWR4450C-8	450	81	878	93.4	0.83	2.1	712	414	35	5040
HJWR4450D-8	500	89	880	93.6	0.83	2.2	783	417	37	5210
HJWR4500A-8	560	97	883	94.0	0.85	2.1	746	489	51	5880
HJWR4500B-8	630	109	883	94.2	0.85	2.2	829	494	56	6010
HJWR4500C-8	710	122	884	94.4	0.86	2.1	933	493	65	6320
HJWR4500D-8	800	136	886	94.7	0.86	2.2	1066	483	75	6510
HJWR4560A-8	900	156	886	94.6	0.85	2.2	1026	511	123	7720
HJWR4560B-8	1000	177	887	94.8	0.83	2.5	1172	514	130	7880
HJWR4560C-8	1120	193	887	95.1	0.85	2.7	1368	544	138	8030
HJWR4560D-8	1250	217	888	95.2	0.84	2.5	1424	556	149	8210
HJWR4630A-8	1400	239	886	94.8	0.86	2.4	1263	682	224	9150
HJWR4630B-8	1600	272	886	95.0	0.86	2.4	1377	715	242	9500
HJWR4630C-8	1800	305	886	95.3	0.86	2.5	1588	693	276	10250
HJWR4630D-8	2000	339	887	95.4	0.86	2.5	1767	692	311	11000
HJWR4710A-8	2000	349	892	96.0	0.83	2.5	/	/	325	12550
HJWR4710B-8	2240	391	892	96.0	0.83	2.6	/	/	338	12950
HJWR4710C-8	2500	433	892	96.1	0.83	2.5	/	/	359	13330
HJWR4710D-8	2800	486	892	96.1	0.83	2.5	/	/	465	14100
HJWR4800A-8	3150	536	890	97.0	0.84	2.3	/	/	530	18250
HJWR4800B-8	3550	603	890	97.1	0.84	2.3	/	/	598	18700
HJWR4900A-8	4000	672	892	97.2	0.85	2.3	/	/	796	22700
HJWR4900B-8	4500	756	892	97.2	0.85	2.4	/	/	860	23340
HJWR4900C-8	5000	838	892	97.3	0.85	2.4	/	/	996	23750
HJWR41000A-8	5600	923	892	96.8	0.87	2.4	/	/	1322	25200
HJWR41000B-8	6300	1035	892	96.9	0.87	2.4	/	/	1482	26100
HJWR41000C-8	7100	1166	892	96.9	0.87	2.4	/	/	1587	27100





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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

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										
HJWR4450A-10	220	38	700	91.5	0.78	2.4	559	260	29	4270
HJWR4450B-10	250	49	700	91.7	0.78	2.3	602	275	32	4440
HJWR4450C-10	280	54	698	91.9	0.78	2.1	652	286	36	4780
HJWR4450D-10	315	60	700	92.2	0.79	2.2	712	293	38	4820
HJWR4450E-10	355	68	700	92.4	0.79	2.2	783	300	40	4950
HJWR4450F-10	400	76	701	92.6	0.79	2.3	870	303	43	5120
HJWR4500A-10	450	79	704	93.4	0.85	1.8	783	383	65	6050
HJWR4500B-10	500	88	706	93.6	0.84	1.9	870	381	70	6150
HJWR4500C-10	560	100	707	93.8	0.83	2.0	979	377	75	6320
HJWR4500D-10	630	112	707	94.1	0.83	2.1	1119	369	85	6420
HJWR4560A-10	710	128	707	94.1	0.82	2.1	979	478	110	7820
HJWR4560B-10	800	143	708	94.5	0.82	2.2	1119	468	127	7950
HJWR4560C-10	900	159	708	94.8	0.83	2.1	1233	478	144	8220
HJWR4560D-10	1000	177	708	94.7	0.83	2.1	1356	482	160	8410
HJWR4630A-10	1120	193	708	94.8	0.85	2.4	1360	500	246	9000
HJWR4630B-10	1250	215	708	94.9	0.85	2.4	1503	507	284	9550
HJWR4630C-10	1400	241	709	95.1	0.85	2.5	1666	510	303	9900
HJWR4630D-10	1600	274	709	95.3	0.85	2.4	1875	517	341	10650
HJWR4630E-10	1800	308	709	95.5	0.85	2.5	2149	507	398	11650
HJWR4710A-10	1800	324	709	95.1	0.81	2.6	/	/	451	13200
HJWR4710B-10	2000	360	709	95.1	0.81	2.4	/	/	481	13600
HJWR4710C-10	2240	402	709	95.2	0.81	2.5	/	/	533	14100
HJWR4800A-10	2500	446	712	95.5	0.82	2.3	/	/	541	18250
HJWR4800B-10	2800	496	712	95.6	0.82	2.4	/	/	615	18820
HJWR4800C-10	3150	556	712	95.7	0.82	2.4	/	/	699	19350
HJWR4900A-10	3550	620	712	96.0	0.83	2.2	/	/	863	21720
HJWR4900B-10	4000	695	713	96.1	0.83	2.4	/	/	1000	22200
HJWR4900C-10	4500	783	713	96.3	0.83	2.3	/	/	1070	22900
HJWR41000A-10	5000	868	710	96.4	0.83	2.4	/	/	1340	24300
HJWR41000B-10	5600	970	710	96.5	0.83	2.4	/	/	1460	24900
HJWR41000C-10	6300	1093	713	96.5	0.83	2.4	/	/	1540	25800





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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										
HJWR4450A-12	220	47	584	90.6	0.72	2.2	570	259	35	4630
HJWR4450B-12	250	52	584	90.8	0.73	2.2	651	256	40	4970
HJWR4450C-12	280	57	582	91.7	0.74	2.0	651	291	40	5010
HJWR4450D-12	315	64	582	91.9	0.74	2.0	602	335	40	5190
HJWR4500A-12	355	67	582	92.3	0.80	2.1	783	300	60	6090
HJWR4500B-12	400	76	582	92.5	0.79	2.1	870	309	65	6190
HJWR4500C-12	450	84	583	92.7	0.80	2.1	979	310	75	6410
HJWR4500D-12	500	94	584	92.8	0.80	2.1	1119	306	85	6560
HJWR4560A-12	560	105	587	93.5	0.79	2.4	1119	306	140	8210
HJWR4560B-12	630	118	588	93.8	0.79	2.5	1305	312	145	8420
HJWR4560C-12	710	131	589	94.0	0.80	2.6	1424	322	158	8580
HJWR4630A-12	800	149	589	93.3	0.80	2.4	1246	395	242	9350
HJWR4630B-12	900	167	589	93.4	0.80	2.4	1354	408	260	9600
HJWR4630C-12	1000	186	589	93.5	0.80	2.3	1486	412	277	9900
HJWR4630D-12	1120	208	590	93.6	0.80	2.3	1654	414	312	10450
HJWR4630E-12	1250	232	590	93.7	0.80	2.3	1861	410	346	10950
HJWR4710A-12	1250	221	589	94.8	0.83	2.4	/	/	367	12750
HJWR4710B-12	1400	247	590	94.9	0.83	2.4	/	/	408	13100
HJWR4710C-12	1600	285	590	94.9	0.82	2.3	/	/	449	13600
HJWR4710D-12	1800	321	590	95.0	0.82	2.5	/	/	511	14010
HJWR4800A-12	2000	357	590	95.0	0.82	2.4	/	/	648	17800
HJWR4800B-12	2240	401	590	95.1	0.82	2.4	/	/	703	18200
HJWR4800C-12	2500	444	590	95.3	0.82	2.4	/	/	783	18890
HJWR4900A-12	2800	501	590	95.7	0.81	2.2	/	/	984	22700
HJWR4900B-12	3150	568	592	95.6	0.81	2.3	/	/	1048	23190
HJWR4900C-12	3550	640	592	95.8	0.81	2.3	/	/	1240	24100
HJWR41000A-12	4000	704	593	96.1	0.82	2.3	/	/	1444	24500
HJWR41000B-12	4500	794	593	96.2	0.82	2.3	/	/	1560	25000
HJWR41000C-12	5000	888	594	96.4	0.81	2.3	/	/	1733	25870
HJWR41000D-12	5600	983	594	96.5	0.82	2.3	/	/	1907	26300





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Méthode de refroidissement IC81W, eau-air de refroidissement

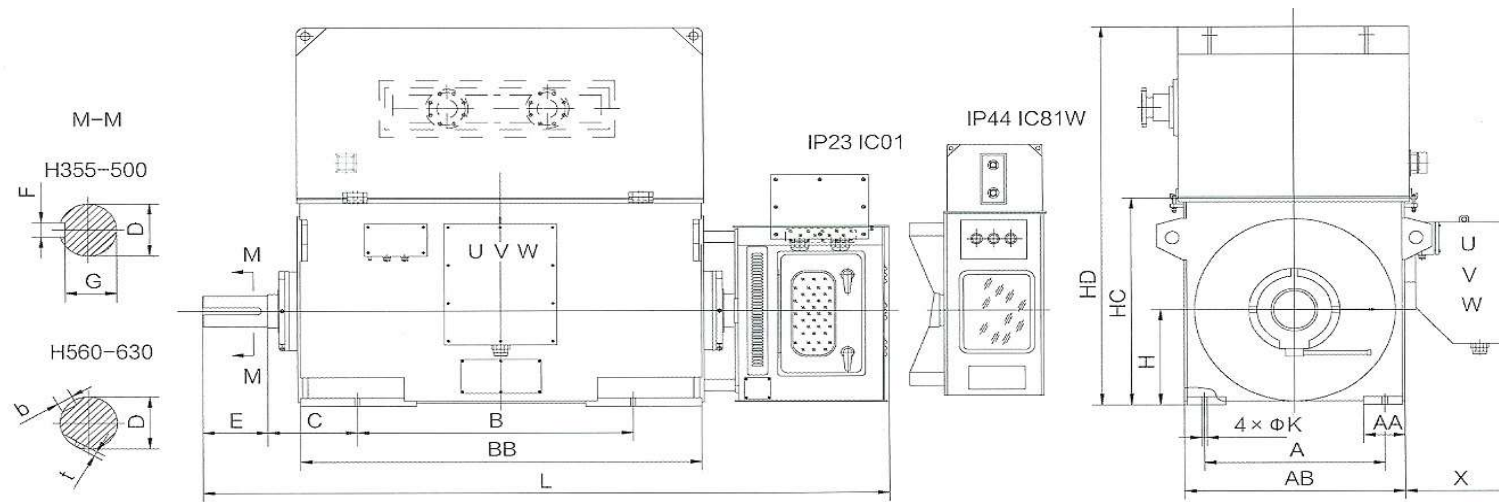


4.16 kV - 60 Hz - CL F - IP23

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										
HJWR4710A-16	710	146	439	92.6	0.73	2.3	/	/	426	12550
HJWR4710B-16	800	164	439	92.9	0.73	2.2	/	/	467	12960
HJWR4710C-16	900	184	439	93.0	0.73	2.2	/	/	512	13420
HJWR4710D-16	1000	204	439	93.1	0.73	2.2	/	/	579	13980
HJWR4800A-16	1120	224	439	93.5	0.74	2.3	/	/	748	17500
HJWR4800B-16	1250	250	440	93.6	0.74	2.3	/	/	803	18000
HJWR4800C-16	1400	278	440	93.8	0.75	2.3	/	/	983	18590
HJWR4900A-16	1600	304	442	94.1	0.78	2.3	/	/	1084	22500
HJWR4900B-16	1800	339	442	94.2	0.78	2.3	/	/	1288	23000
HJWR4900C-16	2000	370	442	94.2	0.80	2.4	/	/	1440	23700
HJWR4900D-16	2240	414	443	94.3	0.80	2.3	/	/	1684	24200
HJWR41000A-16	2500	459	443	94.5	0.80	2.3	/	/	1837	25300
HJWR41000B-16	2800	512	443	94.8	0.80	2.3	/	/	2067	25910
HJWR41000C-16	3150	572	443	95.0	0.81	2.3	/	/	2296	26600
HJWR41000D-16	3350	607	444	95.1	0.81	2.3	/	/	2390	27120

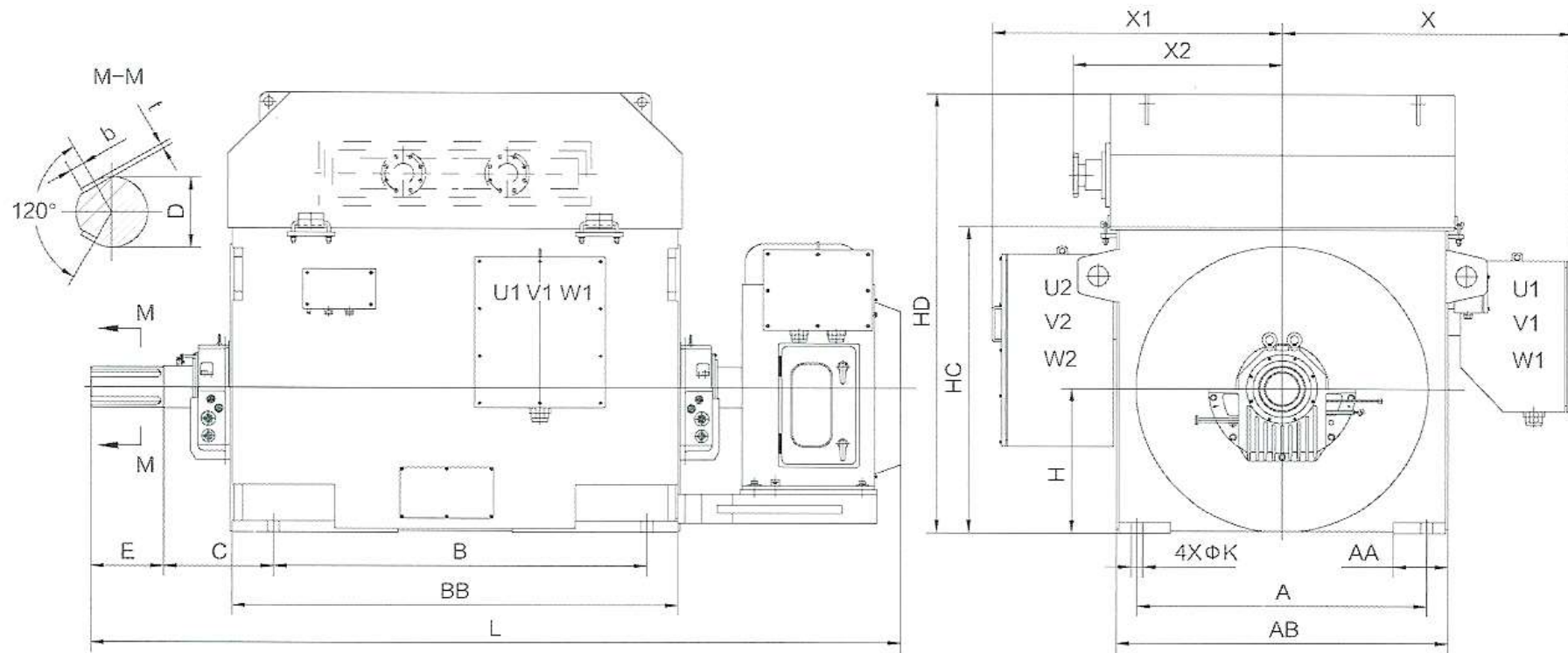


Overall mounting dimensions for HJWR (4.16 kV) series of slipring high-voltage three-phase motors.



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.