

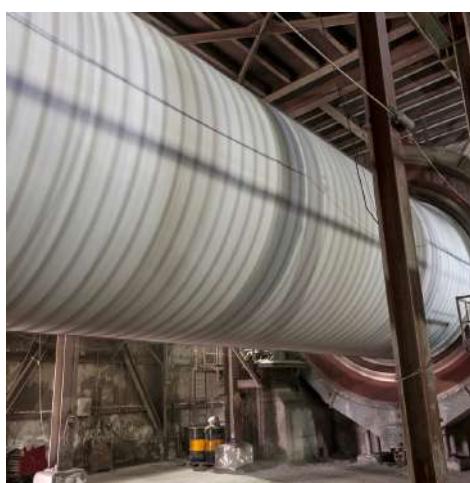


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# Technical Catalog

## CMTS SERIES

### ASYNCHRONOUS SLIP-RING MOTOR SERIES





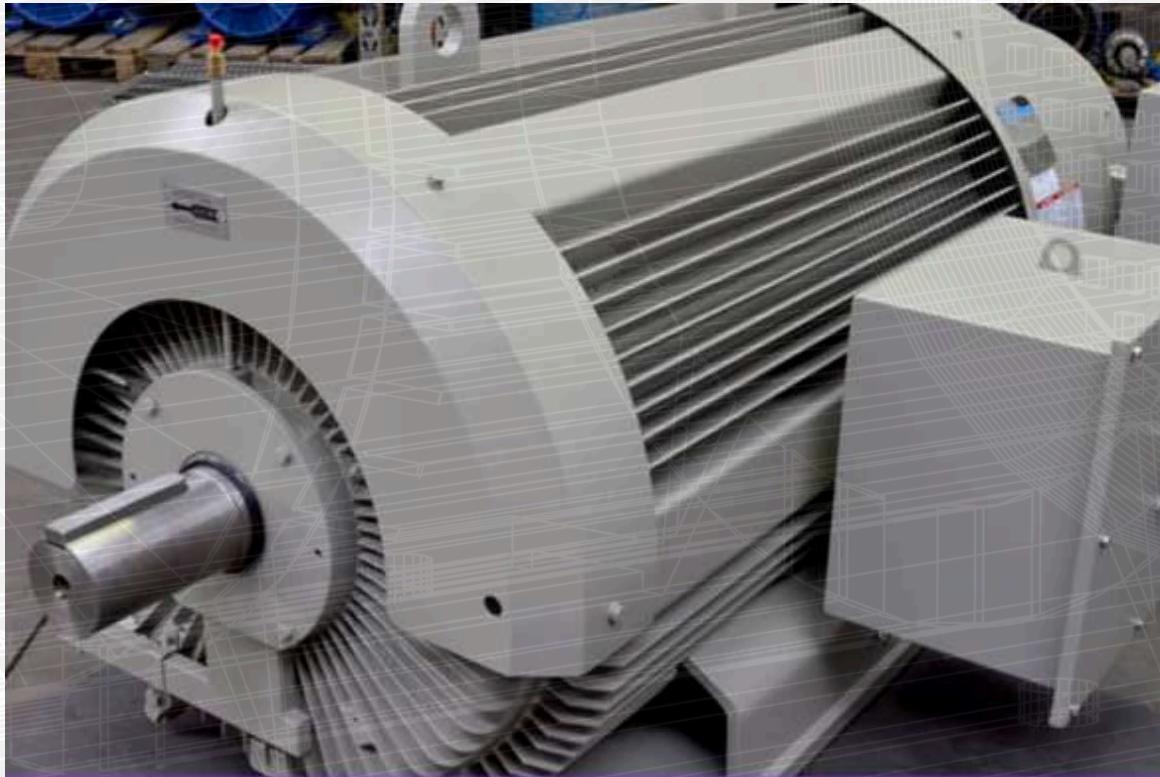
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## SLIP - RING AC MOTORS

### Three Phase Asynchronous Slip-Ring Motors

The **CMTS Series** Slip-Ring Asynchronous motors are built on a standardized and proven design platform that enables multiple cooling methods, protection classes, and mounting options while ensuring high reliability and cost-efficient production.

Designed for demanding applications in steel, cement, mining, water, and energy industries, these squirrel-cage motors set benchmarks in power density, efficiency, thermal performance, and long-term operational reliability.





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## Asynchronous Slip Ring Motor Product Code Selection

Brand Code	Motor Power	Efficiency Class	Poles & Speed	Voltage	Cooling System	Ins. / Temp. Class	Motor Installation	Other Options
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**CMTS --- 0075 --- 03 --- 04 --- 001 --- C02 --- T01 --- IM01 --- OPO2**

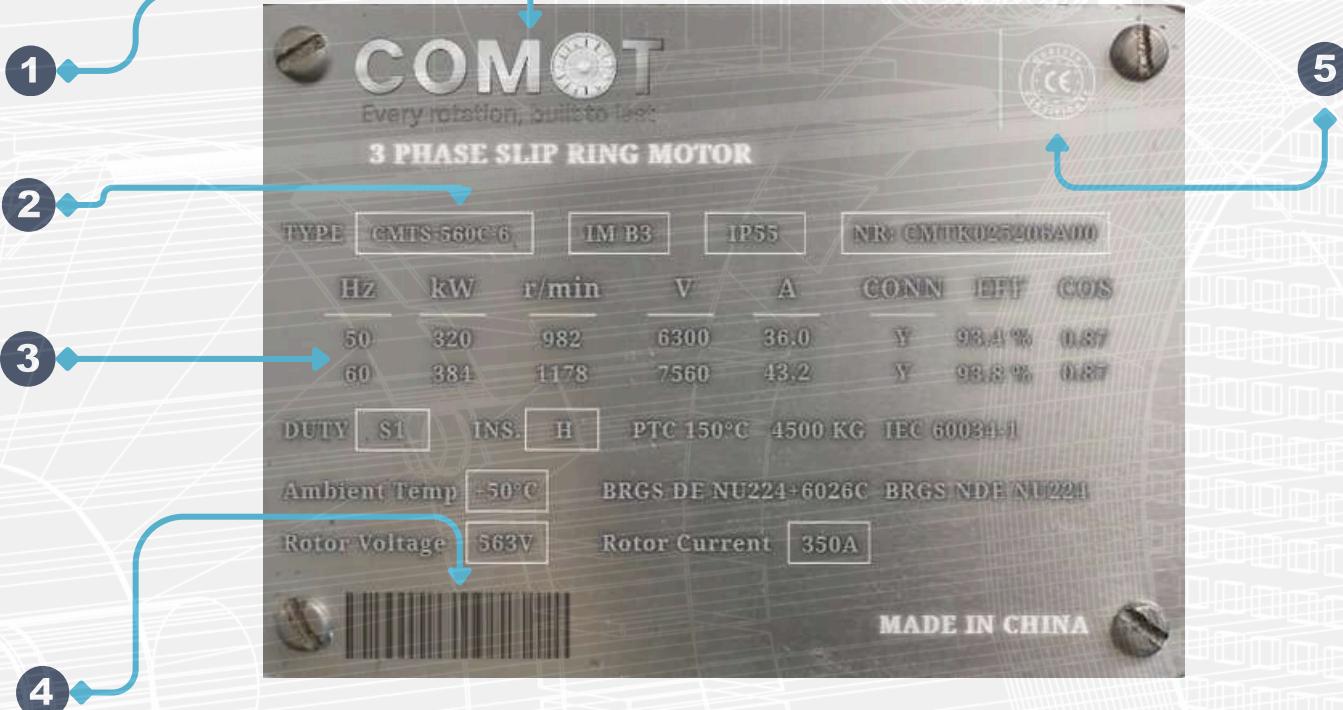
1 2 3 4 5 6 7 8 9

1	Product Family	3	Efficiency Class	6	Cooling System
<b>CMTS</b>	Slip-ring motor code	00	IEC	<b>C00</b>	IC 01
		01	IE1	<b>C01</b>	IC 411
		02	IE2	<b>C02</b>	IC 416
		03	IE3	<b>C03</b>	IC 06
		04	IE4	<b>C04</b>	IC 611
				<b>C05</b>	IC 616
				<b>C06</b>	IC 666
				<b>C07</b>	IC 8A1W7
2	Motor Power kW	4	Poles / rpm	7	Ins. / Temp. Class
0200	200 kW	00	Default	<b>T01</b>	CL-F / B ( 155°C / 130°C )
0220	220 kW	02	2-poles / 3000 rpm	<b>T21</b>	CL-H / F ( 180°C / 155°C )
0250	250 kW	04	4-poles / 1500 rpm		
0280	280 kW	06	6-poles / 1000 rpm		
0315	315 kW	08	8-poles / 750 rpm		
0355	355 kW	10	10-poles / 600 rpm		
0400	400 kW	12	12-poles / 500 rpm		
0450	450 kW				
0500	500 kW				
0560	560 kW				
0630	630 kW				
0710	710 kW				
0800	800 kW				
0900	900 kW				
1000	1000 kW				
1120	1120 kW	5	Voltage		
1250	1250 kW				
1400	1400 kW	001	400 V	<b>IM01</b>	B3
1600	1600 kW	004	1.000 V	<b>IM02</b>	V1
0XX0	Special Power Requests	007	6.000 V	<b>IM03</b>	V3
				<b>IM04</b>	B34
				<b>IM05</b>	B35
				<b>IM06</b>	Others
		9	Other Options		
OP01 --- Brake	OP02 --- Insulated End Shield on NDE	OP03 --- Insulated Bearings	OP04 --- Encoder		
OP05 --- Duty Type S1 to S9	OP06 --- IP Class: from IP23 to IP66	OP07 --- Vibration Sensor	OP08 --- Load Tests		



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## Rating Nameplate



Numbers	Description
1	<b>BRAND NAME</b>
2	<b>MOTOR TYPE</b>
3	<b>TECHNICAL VALUES</b>
4	<b>PRODUCT BARCODE</b>
5	<b>CE NORM</b>



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## SLIP - RING AC MOTORS



### FEATURES

#### Specifical Key Features of Comot CMTS Series

- High starting torque with controlled starting current for heavy-duty applications
- Robust and compact design suitable for low, medium, and high voltage operation
- Heavy-duty bearing system designed for high radial and axial loads
- Low vibration and noise levels ensuring smooth and reliable operation
- High-quality insulation system (Class F with VPI, Class H on request)
- Various cooling methods, protection classes, and mounting arrangements available
- High overload capability and excellent thermal performance
- Custom-engineered solutions tailored to specific project and application requirements



### STANDARDS

The motors comply with the latest European EN60034 and IEC60034 standards. Special versions (NEMA, CSA, etc.) are available upon request.



### MOUNTING

The motors are available for the configuration of IM B3. Custom versions are available upon request.



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## SLIP - RING AC MOTORS



### PROTECTION



The motors are designed for CMTS Series as IP 55 degree of protection, respectively. Other degrees of protection are available upon request.



### COOLING TYPE



The motors are equipped with the IC 411 cooling system, in which the thermal energy generated inside the machine is transferred to the frame surface and released through the airflow guided by the external fan over the cooling ribs.

For two-pole designs, the motors can be supplied with a single-direction external fan, while all other pole numbers are generally delivered with dual-direction external fan units. The internal air path is designed to circulate in both directions.

For specific operating conditions—such as use with a frequency inverter—the motors can also be offered with an independent ventilation arrangement compliant with the IC 416, IC 611, IC 616, IC666 and IC81W cooling methods.



### OVERLOAD CAPACITY



When operating at nominal voltage, the motors tolerate up to two minutes of overload at 1.5 times the nominal current



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## SLIP - RING AC MOTORS



### INSULATION

The motor winding, designed for enhanced environmental resistance, is produced according to temperature class F and impregnated using the VPI (Vacuum Pressure Impregnation) process.

The thermal loading of the motors is kept within the limits of class B, providing an additional power reserve and contributing to slower insulation ageing.

If required, insulation systems in class H can also be supplied.

The winding structure is engineered to withstand very high mechanical forces, allowing the motor to restart safely against a remaining magnetic field of 100% after a power interruption.

The table below specifies the permissible temperature rise ( $\Delta T^*$ ) and the maximum hotspot temperature (Tmax) in accordance with EN 60034-1.

Insulation Class	$\Delta T^*$	Tmax
B	80K	125 °C
F	105K	155 °C
H	125K	180 °C

## SLIP - RING AC MOTORS



### VIBRATION



Even in the standard configuration, the motors comply with vibration severity level N (normal). Vibration measurements are carried out with the motor running at no-load under rated voltage and frequency.

As delivered, the motors are balanced to the "half-key" quality level. Full-key balancing can be provided upon request.



### NOISE LEVEL



Even in its standard version, the motor features a refined structure that ensures reduced acoustic emission levels.

The noise measurement is performed with the motor running at no-load under rated voltage and frequency conditions.



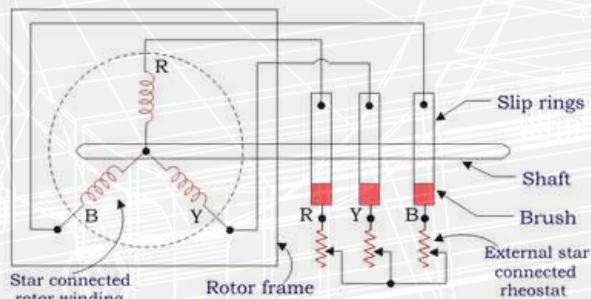
### VOLTAGE RATINGS



The motors are available for the following nominal voltage ratings:

50 Hz:

380 / 400 / 415 / 500 / 690 / 3000 / 3300 / 5000 / 5500 / 6000 / 6300 / 6600 / 10000 / 10500 / 11000 V 60 Hz: 440 / 480 / 2300 / 4160 / 6600 / 7200 / 10000 / 13800 V



The permissible voltage tolerance equals  $\pm 5\%$ . Special voltages and deviating voltage tolerances are available upon request.



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## SLIP - RING AC MOTORS



### AMBIENT TEMPERATURE

The motors are designed to operate at an ambient temperature between -20 °C and +40 °C. For the higher ambient temperature values up to +60 °C necessitate a reduction of the power output as listed below.

#### Ambient temperature [ °C ]

#### Output [ % ]

40	100
45	95
50	90
55	85
60	80



### STANDARD BEARINGS

Frame Size	DE Side 2 poles	DE Side 4&6 poles	NDE Side 2 poles	NDE Side 4&6 poles
250	6314 C3	6314 C3	6314 C3	6314 C3
280	6314 C3	6317 C3	6314 C3	6317 C3
315	6317 C3	6319 C3	6317 C3	6319 C3
355	6317 C3	6322 C3	6317 C3	6320 C3
400	6220 C3	6326 C3	6220 C3	6326 C3
450	6221 C3	6328 C3	6221 C3	6328 C3
500	ask for quote	ask for quote	ask for quote	ask for quote
560	ask for quote	ask for quote	ask for quote	ask for quote



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## Technical Data for Low Voltage Slip Ring Motors

**IP55, IC411; Insulation Class F, Temperature Rise Class B IE3 Cast Iron Motors**

### 4 Poles - 1500rpm, 400V

MOTOR TYPE ( 4 Poles )	Power Speed		Current @400V	Rated Torque	Max. Torque	Eff.Class at %100 Load	Power Factor	Rotor Voltage Vr	Rotor Current Ir	Weight (Apprx.)
CODE	kW	min-1	A	Nm	Mk/Mn	-%	cosΦ	V	A	kg.
CMTS 55 / 280S - 4	55	1480	98	355	2.2	91.0	0.85	291	118	700
CMTS 75 / 280M - 4	75	1480	134	484	2.2	92.0	0.85	397	116	750
CMTS 90 / 315S - 4	90	1480	151	581	2.2	94.5	0.85	215	260	1000
CMTS 110 / 315M - 4	110	1485	189	707	2.2	93.5	0.85	412	162	1100
CMTS 132 / 315L - 4	132	1485	222	849	2.2	94.5	0.88	496	160	1210
CMTS 160 / 315LX - 4	160	1485	272	1029	2.2	94.5	0.86	620	155	1240
CMTS 200 / 355M - 4	200	1485	338	1286	2.2	95.0	0.89	373	324	1900
CMTS 250 / 355L - 4	250	1485	425	1608	2.2	95.5	0.89	428	349	2000
CMTS 315 / 355LX- 4	315	1485	529	2026	2.2	95.5	0.88	428	444	2050

### 6 Poles - 1000rpm, 400V

MOTOR TYPE ( 6 Poles )	Power Speed		Current @400V	Rated Torque	Max. Torque	Eff.Class at %100 Load	Power Factor	Rotor Voltage Vr	Rotor Current Ir	Weight (Apprx.)
CODE	kW	min-1	A	Nm	Mk/Mn	-%	cosΦ	V	A	kg.
CMTS 75 / 315S - 6	75	990	135	723	2.2	93.5	0.86	298	153	1050
CMTS 90 / 315M - 6	90	990	163	868	2.2	93.5	0.85	225	245	1120
CMTS 110 / 315L - 6	110	990	194	1061	2.2	94.0	0.87	448	148	1210
CMTS 132 / 355M - 6	132	990	232	1273	2.2	94.5	0.87	227	353	1760
CMTS 160 / 355MX - 6	160	990	285	1543	2.2	94.2	0.86	365	265	1850
CMTS 200 / 355L - 6	200	990	355	1929	2.2	94.5	0.86	420	290	1950
CMTS 250 / 355LX - 6	250	990	442	2412	2.2	95.0	0.86	404	372	2050

### 8 Poles - 750rpm, 400V

MOTOR TYPE ( 8 Poles )	Power Speed		Current @400V	Rated Torque	Max. Torque	Eff.Class at %100 Load	Power Factor	Rotor Voltage Vr	Rotor Current Ir	Weight (Apprx.)
CODE	kW	min-1	A	Nm	Mk/Mn	-%	cosΦ	V	A	kg.
CMTS 75 / 315M - 8	75	740	139	968	2.2	93.5	0.83	315	145	1050
CMTS 90 / 315L - 8	90	740	167	1161	2.2	93.5	0.83	385	140	1120
CMTS 110 / 355M - 8	110	740	201	1420	2.2	94.0	0.84	385	175	1900
CMTS 132 / 355L - 8	132	740	241	1704	2.2	94.1	0.84	495	160	1990
CMTS 160 / 355LX - 8	160	740	292	2065	2.2	94.2	0.84	575	165	2050

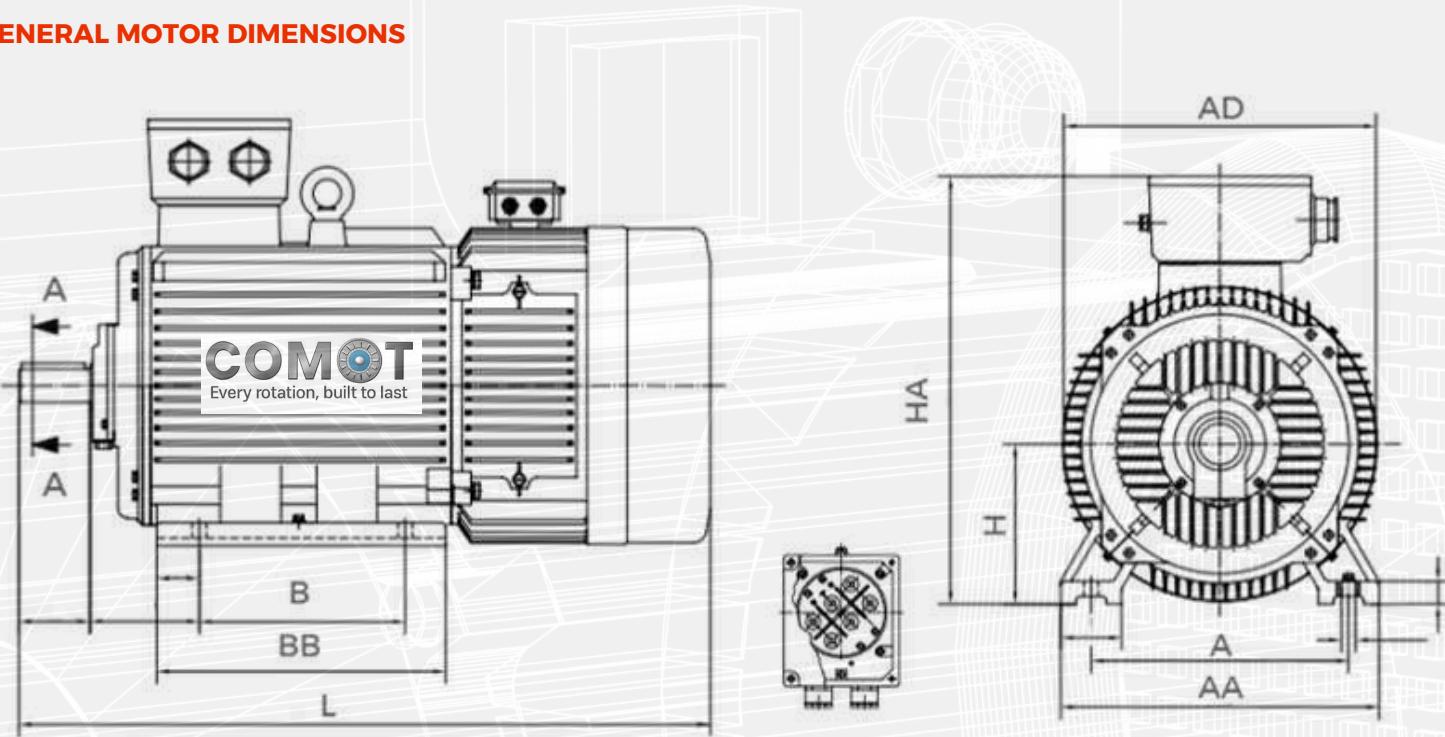
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★ Please ask us for your 10 pole, 12 pole motor requests

## Technical Drawings of Low Voltage Slip Ring Motors

IP55, IC411; Insulation Class F, Temperature Rise Class B IE3 Cast Iron Motors

### GENERAL MOTOR DIMENSIONS



Frame Size -B3 Installation Approx. Dimensions / IC411

	A	AA	B	BB	L	H	HA	AD
Frame	(mm)							
CMTS - 280S	457	542	368	536	1260	280	680	560
CMTS - 280M	457	542	419	536	1310	280	680	560
CMTS - 315S	508	630	406	570	1510	315	850	670
CMTS - 315M	508	630	457	680	1620	315	850	670
CMTS - 315L	508	630	508	680	1620	315	850	670
CMTS - 355M/X	610	730	560	750	1800	355	995	715
CMTS - 355L	610	730	630	750	1800	355	995	715
CMTS - 355LX	610	730	630	750	1800	355	995	715

## Technical Data for Medium & High Voltage Slip Ring Asynchronous Motors

**IP55, IC611; Insulation Class F, Temperature Rise Class B IE3 Cast Iron Motors**

**4 Poles - 1500rpm, 2kV to 6kV**

MOTOR TYPE ( 4 Poles )	Power	Speed	Current @6000V	Rated Torque	Max. Torque	Eff. Class at %100 Load	Power Factor	Rotor Voltage Vr	Rotor Current Ir	Weight (Apprx.)
CODE	kW	min-1	A	Nm	Mk/Mn	-%	cosΦ	V	A	kg.
CMTS 400 - 04	450	1474	54	2916	2.2	93.6	0.85	291	118	700
CMTS 400 - 04	500	1475	60	3237	2.2	94.0	0.86	397	116	750
CMTS 400 - 04	560	1476	66	3623	2.2	94.1	0.87	215	260	1000
CMTS 400 - 04	630	1476	73	4076	2.2	94.4	0.88	412	162	1100
CMTS 400 - 04	710	1478	82	4588	2.2	94.7	0.88	496	160	1210
CMTS 450 - 04	800	1481	92	5159	2.2	95.0	0.88	620	155	1240
CMTS 450 - 04	900	1483	105	5796	2.2	95.2	0.88	373	324	1900
CMTS 450 - 04	1000	1482	115	6444	2.2	95.3	0.88	428	349	2000
CMTS 450X - 04	1120	1482	127	7217	2.2	95.3	0.89	428	444	2050
CMTS 500 - 04	1250	1484	141	8044	2.2	95.7	0.89	428	444	2050
CMTS 500 - 04	1400	1484	158	9009	2.2	95.8	0.89	428	444	2050
CMTS 500 - 04	1600	1485	178	10290	2.2	95.9	0.90	428	444	2050
CMTS 500X - 04	1800	1485	199	11576	2.2	95.6	0.91	428	444	2050
CMTS 560 - 04	2000	1486	228	12853	2.2	96.0	0.88	428	444	2050
CMTS 560 - 04	2240	1487	252	14386	2.2	96.1	0.89	428	444	2050
CMTS 560 - 04	2500	1486	278	16067	2.2	96.1	0.90	428	444	2050
CMTS 560X - 04	2800	1488	315	17970	2.2	96.2	0.89	428	444	2050
CMTS 630 - 04	3150	1488	350	20217	2.2	96.3	0.90	428	444	2050
CMTS 630 - 04	3550	1488	394	22784	2.2	96.3	0.90	428	444	2050
CMTS 630 - 04	4000	1488	438	25672	2.2	96.5	0.91	428	444	2050
CMTS 630X - 04	4500	1489	493	28862	2.2	96.5	0.91	428	444	2050
CMTS 630 - 04	5000	1488	549	32090	2.2	96.3	0.91	428	444	2050
CMTS 630 - 04	5600	1487	608	35965	2.2	96.3	0.92	428	444	2050
CMTS 630 - 04	6300	1488	684	40433	2.2	96.4	0.92	428	444	2050
CMTS 630X - 04	7100	1488	770	45568	2.2	96.5	0.92	428	444	2050

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◆ Please ask us for your 10 pole, 12 pole motor requests



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## Technical Data for Medium Voltage Squirrel Cage Three Phase Motors

**IP55, IC611; Insulation Class F, Temperature Rise Class B IE3 Cast Iron Motors**

**6 Poles - 1000rpm, 2kV to 6kV**

MOTOR TYPE ( 6 Poles )	Power Speed		Current @400V	Rated Torque	Max. Torque	Eff. Class at %100 Load	Power Factor	Rotor Voltage Vr	Rotor Current Ir	Weight (Apprx.)
CODE	kW	min-1	A	Nm	Mk/Mn	-%	cosΦ	V	A	kg.
CMTS 400 - 6	355	990	45	3424	2.2	94.0	0.81	370	580	3400
CMTS 400 - 6	400	990	49	3859	2.2	94.2	0.83	410	600	3600
CMTS 400X - 6	450	990	56	4341	2.2	94.3	0.82	450	610	3750
CMTS 400X - 6	500	990	62	4823	2.2	94.4	0.82	500	610	3900
CMTS 400X - 6	560	990	69	5402	2.2	94.7	0.83	560	610	4050
CMTS 450 - 6	630	990	77	6077	2.2	94.9	0.82	530	720	4700
CMTS 450 - 6	710	990	87	6849	2.2	95.1	0.83	600	720	4900
CMTS 450 - 6	800	990	95	7717	2.2	95.2	0.85	640	750	5200
CMTS 450X - 6	900	990	108	8682	2.2	95.3	0.84	750	720	5400
CMTS 500 - 6	1000	990	120	9646	2.2	95.6	0.84	690	870	6200
CMTS 500 - 6	1120	990	132	10804	2.2	95.7	0.85	750	900	6500
CMTS 500 - 6	1250	990	146	12058	2.2	95.7	0.86	820	920	7000
CMTS 500X - 6	1400	990	165	13505	2.2	95.9	0.85	970	870	7300
CMTS 560 - 6	1600	990	189	15434	2.2	95.9	0.85	900	1070	7900
CMTS 560 - 6	1800	990	210	17364	2.2	96.0	0.86	1000	1080	8300
CMTS 560 - 6	2000	990	236	19293	2.2	96.1	0.85	1130	1060	9000
CMTS 560X - 6	2240	990	258	21608	2.2	96.1	0.87	1210	1120	9200
CMTS 560X - 6	2500	990	287	24116	2.2	96.2	0.87	2070	730	9400
CMTS 630 - 6	2800	990	318	27010	2.2	96.3	0.88	1660	1020	12100
CMTS 630 - 6	3150	990	357	30386	2.2	96.4	0.88	1840	1030	13100
CMTS 630X - 6	3550	990	399	34245	2.2	96.3	0.89	1910	1130	13500
CMTS 710 - 6	4000	990	448	38586	2.2	96.5	0.89	1910	1270	15800
CMTS 710 - 6	4500	990	504	43409	2.2	96.5	0.89	2130	1280	16600
CMTS 710 - 6	5000	990	559	48232	2.2	96.6	0.89	2390	1260	17800
CMTS 710X - 6	5500	990	626	53056	2.2	96.6	0.89	2620	1290	18900

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◆ Please ask us for your 10 pole, 12 pole motor requests



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## Technical Data for Medium Voltage Squirrel Cage Three Phase Motors

**IP55, IC611; Insulation Class F, Temperature Rise Class B IE3 Cast Iron Motors**

**8 Poles - 7500rpm, 2kV to 6kV**

MOTOR TYPE ( 8 Poles )	Power	Speed	Current @400V	Rated Torque	Max. Torque	Eff. Class at %100 Load	Power Factor	Rotor Voltage Vr	Rotor Current Ir	Weight (Apprx.)
CODE	kW	min-1	A	Nm	Mk/Mn	-%	cosΦ	V	A	kg.
CMTS 400 - 8	280	740	35	3614	2.2	92.3	0.83	320	560	3350
CMTS 400 - 8	315	740	39	4065	2.2	92.5	0.83	350	560	3550
CMTS 400X - 8	355	740	45	4581	2.2	92.5	0.82	380	580	3700
CMTS 400X - 8	400	740	50	5162	2.2	92.9	0.83	420	600	3850
CMTS 450 - 8	450	740	56	5807	2.2	93.9	0.82	400	690	4600
CMTS 450 - 8	500	740	62	6453	2.2	94.2	0.82	440	700	4850
CMTS 450X - 8	560	740	70	7227	2.2	94.3	0.82	490	700	5050
CMTS 450X - 8	630	740	77	8130	2.2	94.5	0.83	550	700	5350
CMTS 500 - 8	710	740	88	9163	2.2	94.7	0.82	690	630	6050
CMTS 500 - 8	800	740	98	10324	2.2	94.8	0.83	750	650	6400
CMTS 500X - 8	900	740	109	11615	2.2	94.8	0.84	820	670	6700
CMTS 500X - 8	1000	740	121	12905	2.2	94.9	0.84	900	680	7200
CMTS 560 - 8	1120	740	136	14454	2.2	95.3	0.83	860	790	7800
CMTS 560 - 8	1250	740	152	16132	2.2	95.4	0.83	970	780	8300
CMTS 560X - 8	1400	740	168	18068	2.2	95.4	0.84	1060	800	8900
CMTS 560X - 8	1600	740	192	20649	2.2	95.5	0.84	1200	810	9300
CMTS 630 - 8	1800	740	218	23230	2.2	95.7	0.83	1190	910	10900
CMTS 630 - 8	2000	740	239	25811	2.2	95.8	0.84	1280	940	11700
CMTS 630X - 8	2240	740	268	28908	2.2	95.8	0.84	1420	950	12300
CMTS 630X - 8	2500	740	295	32264	2.2	96.1	0.85	1560	970	13200
CMTS 710 - 8	2800	740	333	36135	2.2	96.3	0.84	1560	1080	14600
CMTS 710 - 8	3150	740	374	40652	2.2	96.4	0.84	1730	1090	15800
CMTS 710X - 8	3550	740	417	45814	2.2	96.4	0.85	1950	1090	16600
CMTS 710X - 8	4000	740	464	51622	2.2	96.4	0.86	2080	1150	17900

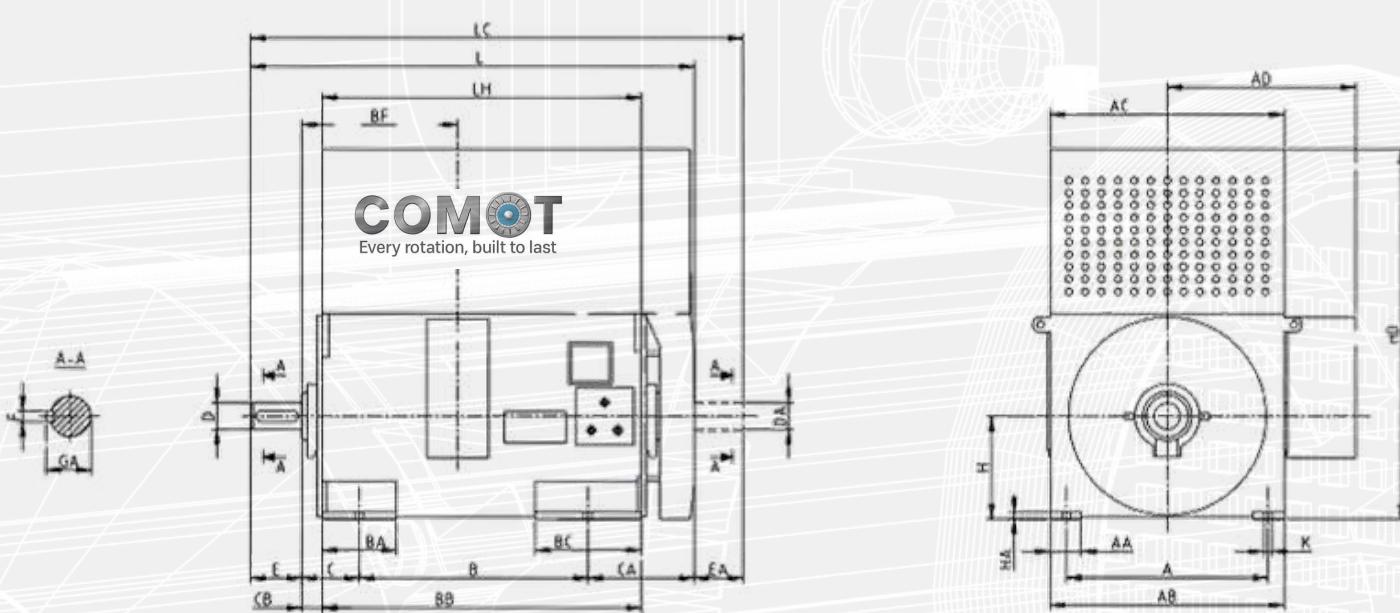
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## Technical Drawings of Medium & High Voltage Slip Ring Motors

IP55, IC611; Insulation Class F, Temperature Rise Class B IE3 Cast Iron Motors

### GENERAL MOTOR DIMENSIONS



Frame Size -B3 Installation Approx. Dimensions / IC611 (Ask us for the other cooling methods)

IEC	A	AA	AB	AC	AD	B	BA	BB	BC	BF	C	CA	CB	
TYPE	No of Poles	(mm)												
CMTS 400	4-12	800	110	888	900	795	1250	355	1690	542	675	250	640	95
CMTS 400X	4-12	800	110	888	900	795	1400	370	1900	542	780	250	700	95
CMTS 450	4-12	900	130	988	1000	845	1400	340	1840	542	750	250	640	95
CMTS 450X	4-12	900	130	988	1000	845	1600	385	2010	542	835	250	610	95
CMTS 500	4-12	1000	150	1138	1150	920	1600	400	2010	542	845	280	595	105
CMTS 500X	4-12	1000	150	1138	1150	920	1800	405	2200	542	940	280	585	105
CMTS 560	4-12	1120	180	1284	1300	995	1800	425	2200	616	910	280	610	110
CMTS 560X	4-12	1120	180	1284	1300	995	2000	410	2400	616	1010	280	610	110
CMTS 630	4-12	1250	200	1434	1450	1060	1250	445	1795	440	1015	315	1365	115
CMTS 630X	4-12	1250	200	1434	1450	1060	1600	480	2045	475	1140	315	1265	115
CMTS 710	4-12	1400	200	1630	1650	1160	1400	480	1985	475	1125	315	1550	130
CMTS 710X	4-12	1400	200	1630	1650	1160	1800	515	2235	510	1250	315	1405	130

Frame Size -B3 Installation Approx. Dimensions / IC611 (Ask us for the other cooling methods)

IEC	D	DA	E	EA	F	GA	H	HA	HD	K	L	LC	LH	
TYPE	No of Poles	(mm)												
CMTS 400	4-12	110	110	210	210	28	116	400	30	1600	35	2530	2770	1890
CMTS 400X	4-12	120	120	210	210	32	127	450	35	1800	35	2320	2560	1680
CMTS 450	4-12	120	120	210	210	32	127	450	35	1800	35	2640	2880	2000
CMTS 450X	4-12	140	140	250	250	36	148	500	45	2000	42	2520	2805	1830
CMTS 500	4-12	140	140	250	250	36	148	500	45	2000	42	2880	3165	2190
CMTS 500X	4-12	160	160	300	300	40	169	560	45	2250	42	2775	3100	2000
CMTS 560	4-12	160	160	300	300	40	169	560	45	2250	42	2965	3290	2190
CMTS 560X	4-12	160	160	300	300	40	169	560	45	2250	42	3165	3490	2390
CMTS 630	4-12	180	180	300	300	45	190	630	45	2500	48	3210	3630	2390
CMTS 630X	4-12	180	180	300	300	45	190	630	45	2500	48	3460	3780	2640
CMTS 710	4-12	200	200	350	350	45	210	710	50	2800	48	3600	3970	2650
CMTS 710X	4-12	200	200	350	350	45	210	710	50	2800	48	3850	4220	2900

★ Please ask us for your 10 pole, 12 pole motor requests, different cooling methods and larger voltage requests



**COMOT**  
Every rotation, built to last



## HEAD OFFICE



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