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Technical Catalog

CMTK SERIES

LOW VOLTAGE ASYNCHRONOUS MOTOR SERIES

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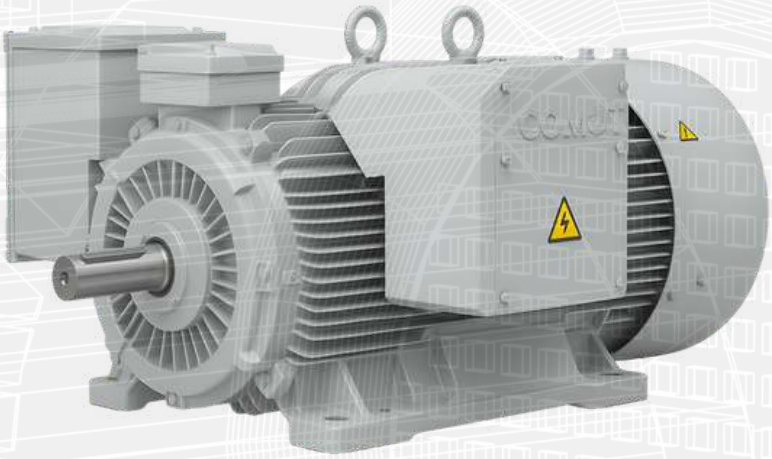
LOW VOLTAGE MOTORS

Three Phase Asynchronous Squirrel Cage Motors



The engineered layout permits a wide variety of cooling types and degrees of protection, as well as diverse mounting options. At the same time, the basic construction of the motor follows a consistent and uniform design platform. This means reduced production costs coupled with a reliable and proven structure.

Motors of the CMTK series are deployed in the most diverse sectors, including the cement, paper, water, or steel industries.

The advanced technology of the squirrel-cage motors of the CMTK series sets technical standards in terms of frame size, output, efficiency, and reliability.

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Asynchronous Squirrel Cage Motor Product Code Selection

Brand Code	Motor Power	Efficiency Class	Poles & Speed	Voltage	Cooling System	Ins. / Temp. Class	Motor Installation	Other Options
CMTK ---	0075 ---	03 ---	04 ---	001 ---	C02 ---	T01 ---	IM01 ---	OP02
1	2	3	4	5	6	7	8	9

1 Product Family

CMTK	Asynchronous motor code

2 Motor Power kW

0055	55 kW
0075	75 kW
0090	90 kW
0110	110 kW
0132	132 kW
0160	160 kW
0200	200 kW
0250	250 kW
0315	315 kW
0355	355 kW
0400	400 kW
0450	450 kW
0500	500 kW
0560	550 kW
0630	630 kW
0710	710 kW
0800	800 kW
0900	900 kW
0XX0	Special Power Requests

3 Efficiency Class

00	IEC
01	IE1
02	IE2
03	IE3
04	IE4
05	IE5

4 Poles / rpm

00	Default
02	2-poles / 3000 rpm
04	4-poles / 1500 rpm
06	6-poles / 1000 rpm
08	8-poles / 750 rpm
10	10-poles / 600 rpm
12	12-poles / 500 rpm

5 Voltage

001	400 V	002	500 V	003	690 V
004	1.000 V	005	3.000 V	006	3.300 V
007	6.000 V	008	6.600 V	009	10.000 V

6 Cooling System

C00	IC 01
C01	IC 411
C02	IC 416
C03	IC 06
C04	IC 611
C05	IC 616
C06	IC 8A1W7
C07	IC 666

7 Ins. / Temp. Class

T01	CL-F / B (155°C / 130°C)
T21	CL-H / F (180°C / 155°C)

8 Motor Installation

IM01	B3
IM02	B5
IM03	B14
IM04	B34
IM05	B35
IM06	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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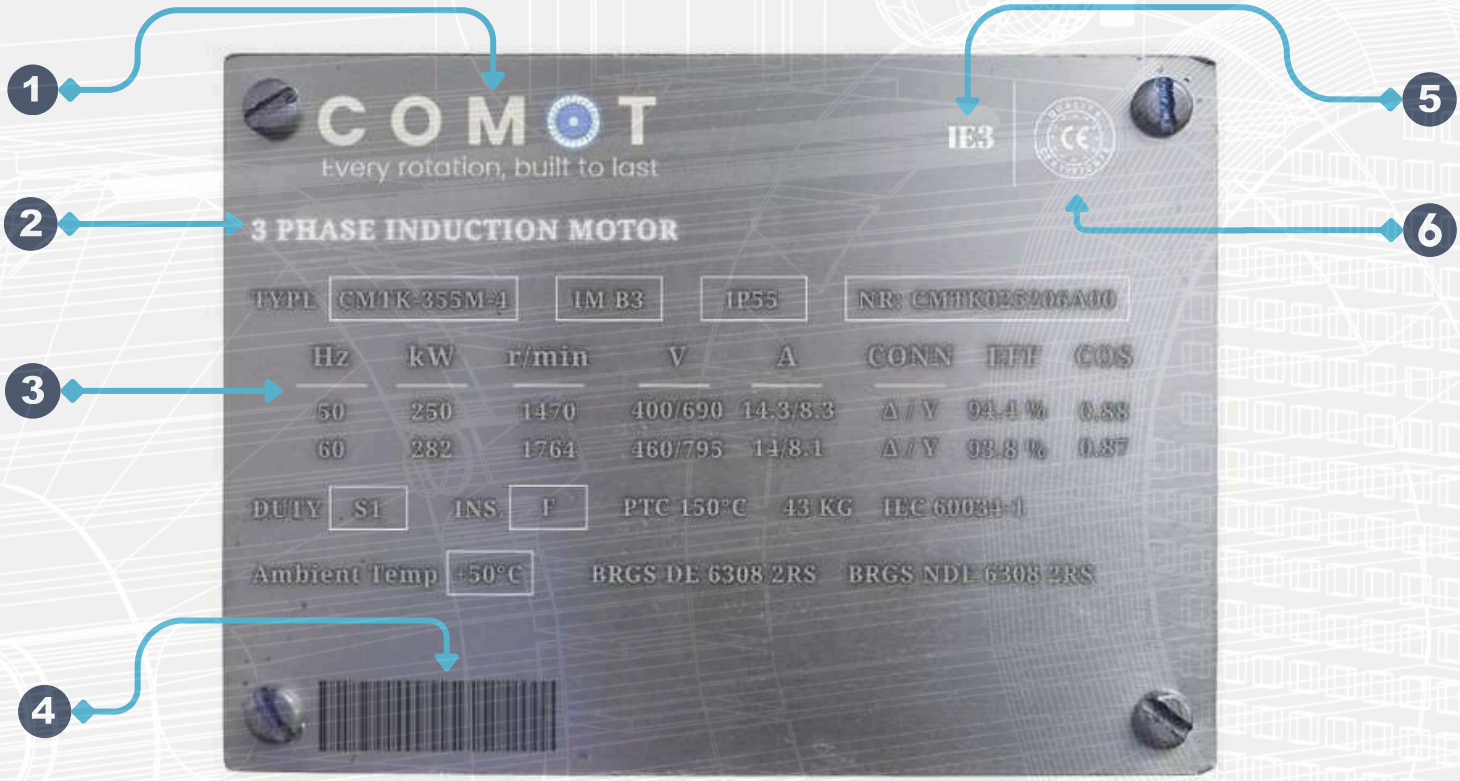
Rating Nameplate



Numbers	Description
1	BRAND NAME
2	MOTOR TYPE
3	TECHNICAL VALUES
4	PRODUCT BARCODE
5	PRODUCT EFFICIENCY CLASS
6	CE NORM

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LOW VOLTAGE MOTORS

FEATURES

Re-Engineered Feature Set

- High operational efficiency with optimized energy usage
- Space-saving construction with reduced footprint and lightweight housing
- Robust bearing arrangement designed for heavy-duty performance
- Excellent dynamic behavior with minimized vibration levels
- Enhanced insulation system in Class F/H for superior thermal endurance
- Extended service lifetime under continuous industrial operation
- Strong overload capability and stable torque delivery
- Quiet-running operation thanks to acoustically refined airflow design
- Fully customizable configurations tailored to project-specific 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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LOW VOLTAGE MOTORS

PROTECTION

The motors are designed for CMTK 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 cooling method.

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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LOW VOLTAGE 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 (ΔT*) and the maximum hotspot temperature (Tmax) in accordance with EN 60034-1.

Insulation Class	ΔT*	Tmax
B	80K	125 °C
F	105K	155 °C
H	125K	180 °C

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LOW VOLTAGE 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.

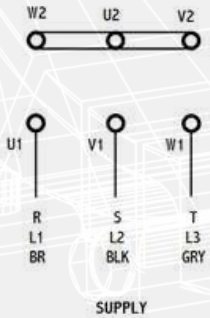
As delivered, the motors are balanced to the “half-key” quality level. Full-key balancing can be provided upon request.

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:

At 50 Hz: 400 V / 690 V (connection: Δ delta / Y star)
Nominal voltage range: 380-420 / 660-725 V

At 60 Hz: 440-480 V (connection: Δ delta) Tolerance ± 10% in compliance with IEC 60038 (not valid for the wide voltage range). Special voltages and deviating voltage tolerances are aivailable upon request.

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LOW VOLTAGE 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 Squirrel Cage Three Phase Motors

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

2 Poles - 3000rpm, 400 / 690 V

MOTOR TYPE (2 Poles)	Power	Speed	Current @400V	Current @690V	Rated Torque	Max. Torque	Eff.Class at %100 Load	Power Factor	Inertia J	Weight (Apprx.)
CODE	kW	min-1	A	A	Nm	Mk/Mn	-%	cosΦ	kgm²	kg.
CMTK 55 / 250 - 2	55	2970	94,6	54.8	177	2.0	94.3	0.89	0.31	435
CMTK 75 / 280 - 2	75	2975	130	75.4	241	2.0	94.7	0.88	0.79	550
CMTK 90 / 280 - 2	90	2980	155	89.9	288	2.0	95	0.88	1.07	585
CMTK 110 / 315 - 2	110	2970	185	107.2	354	2.0	95.2	0.90	2.03	970
CMTK 132 / 315 - 2	132	2973	220	127.5	424	2.0	95.4	0.91	2.21	1030
CMTK 160 / 315 - 2	160	2970	269	155.9	514	2.0	95.6	0.90	2.49	1150
CMTK 200 / 315 - 2	200	2966	333	193	644	2.0	95.8	0.91	2.90	1250
CMTK 250 / 355- 2	250	2979	417	241.7	801	2.0	95.8	0.90	3.81	1780
CMTK 280 / 355- 2	280	2973	464	269	899	2.0	95.8	0.91	3.82	1796
CMTK 315 / 355- 2	315	2979	516	299.1	1010	2.0	95.8	0.92	4.46	1840
CMTK 355 / 355- 2	355	2973	588	340.9	1140	2.0	95.8	0.91	4.46	1880
CMTK 400 / 355- 2	400	2978	677	392,5	1283	2.0	95.8	0.89	5.30	2300
CMTK 450 / 355- 2	450	2978	762	442	1443	2.0	95.8	0.90	5.90	2470
CMTK 500 / 355- 2	500	2978	846	491	1603	2.0	95.8	0.89	6.40	2600
CMTK 560 / 400- 2	560	2980	947	549	1795	2.0	95.9	0.89	8.00	3350
CMTK 630 / 400- 2	630	2980	1065	618	2019	2.0	95.9	0.89	9.00	3500
CMTK 710 / 400- 2	710	2980	1201	696	2275	2.0	95.9	0.89	11.00	3680
CMTK 800 / 450- 2	800	2985	1353	785	2559	2.0	96.0	0.89	29.00	5100
CMTK 900 / 450- 2	900	2985	1523	883	2879	2.0	96.0	0.89	33.00	5300
CMTK 1000 / 450- 2	1000	2985	1692	981	3199	2.0	96.0	0.89	38.00	5600

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Technical Data for Low Voltage Squirrel Cage Three Phase Motors

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

4 Poles - 1500rpm, 400 / 690 V

MOTOR TYPE (4 Poles)	Power	Speed	Current @400V	Current @690V	Rated Torque	Max. Torque	Eff.Class at %100 Load	Power Factor	Inertia J	Weight (Apprx.)
CODE	kW	min-1	A	A	Nm	Mk/Mn	-%	cosΦ	kgm²	kg.
CMTK 55 / 250 - 4	55	1480	98	57	355	2.0	94.6	0.85	1.02	529
CMTK 75 / 280 - 4	75	1491	133	77	480	2.0	95.9	0.85	2.08	610
CMTK 90 / 280 - 4	90	1491	158	92	576	2.0	95.9	0.85	2.55	670
CMTK 110 / 315 - 4	110	1489	194	112	706	2.0	96.1	0.85	3.49	970
CMTK 132 / 315 - 4	132	1489	225	130	847	2.0	96.3	0.88	4.01	1060
CMTK 160 / 315 - 4	160	1489	279	162	1026	2.0	96.1	0.86	5.24	1160
CMTK 200 / 315 - 4	200	1487	339	197	1284	2.0	96.3	0.89	5.70	1270
CMTK 250 / 355- 4	250	1489	422	245	1603	2.0	96.3	0.89	9.30	1815
CMTK 280 / 355- 4	280	1487	469	272	1798	2.0	96.5	0.89	9.30	1915
CMTK 315 / 355- 4	315	1487	537	311	2023	2.0	96.1	0.88	10.29	2000
CMTK 355 / 355- 4	355	1488	593	344	2278	2.0	96.7	0.89	11.28	2060
CMTK 400 / 355- 4	400	1485	691	401	2572	2.0	96.0	0.87	10.00	2420
CMTK 450 / 355- 4	450	1485	778	451	2894	2.0	96.0	0.87	11.00	2580
CMTK 500 / 355- 4	500	1485	864	501	3215	2.0	96.0	0.87	12.00	2800
CMTK 560 / 400- 4	560	1488	967	561	3594	2.0	96.1	0.87	16.00	3250
CMTK 630 / 400- 4	630	1488	1075	623	4043	2.0	96.1	0.88	19.00	3510
CMTK 710 / 400- 4	710	1488	1212	703	4557	2.0	96.1	0.88	22.00	3790
CMTK 800 / 450- 4	800	1488		792	5134	2.0	96.1	0.88	34.00	4900
CMTK 900 / 450- 4	900	1490		891	5768	2.0	96.1	0.88	37.00	5200
CMTK 1000 / 450- 4	1000	1490		989	6409	2.0	96.1	0.88	40.00	5500
CMTK 1000 / 500- 4	1000	1490		988	6409	2.0	96.2	0.88	47.00	6180
CMTK 1250 / 500- 4	1250	1492		1234	8001	2.0	96.3	0.88	60.00	6820
CMTK 1500 / 500- 4	1500	1494		1431	9588	2.0	97.1	0.90	70.00	7300
CMTK 1400 / 560- 4	1400	1492		1381	8961	2.0	96.4	0.88	75.00	8100
CMTK 1600 / 560- 4	1600	1490		1562	10255	2.0	96.3	0.89	83.00	8500
CMTK 1800 / 560- 4	1800	1490		1756	11537	2.0	96.4	0.89	92.00	9050

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Technical Data for Low Voltage Squirrel Cage Three Phase Motors

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

6 Poles - 1000rpm, 400 / 690 V

MOTOR TYPE (6 Poles)	Power	Speed	Current @400V	Current @690V	Rated Torque	Max. Torque	Eff.Class at %100 Load	Power Factor	Inertia J	Weight (Apprx.)
CODE	kW	min-1	A	A	Nm	Mk/Mn	-%	cosΦ	kgm²	kg.
CMTK 55 / 280 - 6	55	990	101	58	531	2.0	94.9	0.84	1.70	550
CMTK 75 / 315 - 6	75	990	137	79	723	2.0	95.6	0.83	3.20	915
CMTK 90 / 315 - 6	90	990	163	95	868	2.0	95.7	0.83	3.70	996
CMTK 110 / 315 - 6	110	990	198	115	1061	2.0	95.7	0.84	4.50	1175
CMTK 132 / 315 - 6	132	990	237	137	1273	2.0	96.0	0.84	5.20	1225
CMTK 160 / 315 - 6	160	990	285	165	1543	2.0	95.8	0.85	9.30	1790
CMTK 200 / 355 - 6	200	990	354	205	1929	2.0	96.0	0.85	10.80	1890
CMTK 250 / 355 - 6	250	990	434	252	2412	2.0	96.0	0.87	11.80	1920
CMTK 280 / 355 - 6	280	990	494	286	2701	2.0	95.8	0.86	12.90	2106
CMTK 315 / 355 - 6	315	990	558	323	3039	2.0	95.8	0.85	14.00	2410
CMTK 355 / 355 - 6	355	990	629	365	3424	2.0	95.8	0.85	15.00	2650
CMTK 400 / 355 - 6	400	990	709	411	3859	2.0	95.8	0.85	16.00	2800
CMTK 450 / 400 - 6	450	990	788	457	4341	2.0	95.8	0.86	24.00	3650
CMTK 500 / 400 - 6	500	990	876	508	4823	2.0	95.8	0.86	26.00	3800
CMTK 560 / 400 - 6	560	990	981	569	5402	2.0	95.8	0.86	28.00	3920
CMTK 630 / 450 - 6	630	990	788	457	6077	2.0	95.8	0.86	47.00	4810
CMTK 710 / 450 - 6	710	990	876	508	6849	2.0	95.8	0.86	50.00	5050
CMTK 800 / 450 - 6	800	990	981	569	7717	2.0	95.8	0.86	53.00	5290
CMTK 900 / 500 - 6	900	990		912	8682	2.0	96.0	0.86	88.00	6750
CMTK 1000 / 500 - 6	1000	990		1012	9646	2.0	96.0	0.86	96.00	7050
CMTK 1120 / 500 - 6	1120	990		1134	10804	2.0	96.1	0.86	103.00	7300
CMTK 900 / 500 - 6	900	990		912	8682	2.0	96.0	0.86	88.00	6750
CMTK 1000 / 500 - 6	1000	990		1012	9646	2.0	96.0	0.86	96.00	7050
CMTK 1120 / 500 - 6	1120	990		1134	10804	2.0	96.1	0.86	103.00	7300
CMTK 1250 / 560 - 6	1250	990		1264	12058	2.0	96.2	0.86	120.00	8320
CMTK 1400 / 560 - 6	1400	990		1415	13505	2.0	96.3	0.86	140.00	8600
CMTK 1600 / 560 - 6	1600	990		1615	15434	2.0	96.4	0.86	160.00	9200

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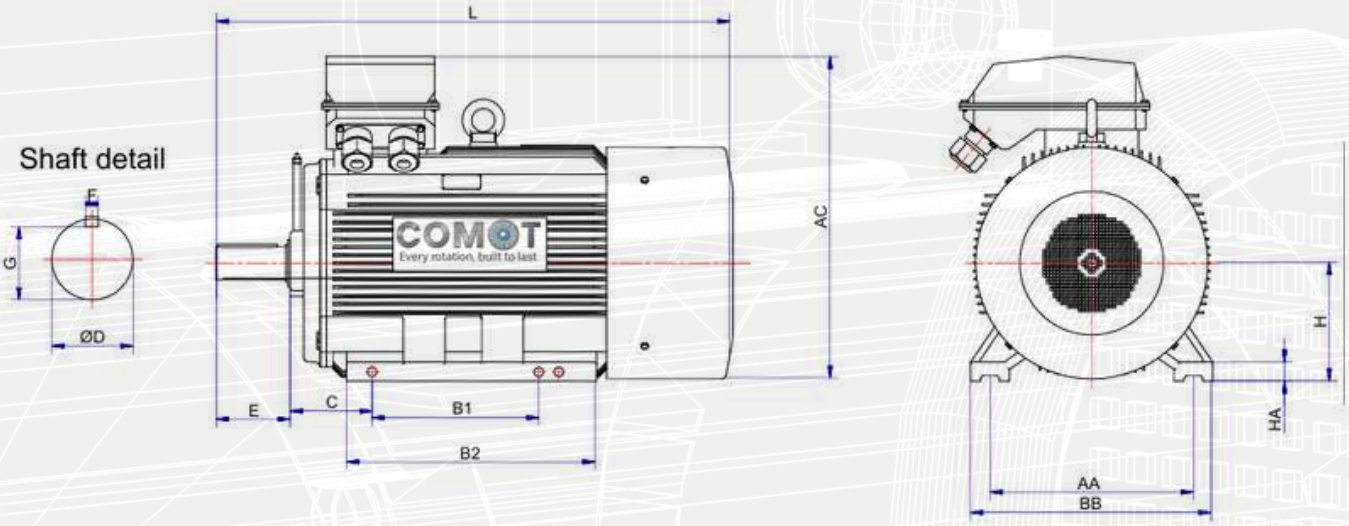
Technical Data for Low Voltage Squirrel Cage Three Phase Motors

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

B3 - 2Pole / 3000rpm MOTOR DIMENSIONS



Frame Size -B3 Installation Approx. Dimensions														
IEC		AA	BB	HA	H	E	AC	C	L	B1	B2	G	F	ØD
Power (kW)	Frame-2 Pole (mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
55	CMTK - 250M	406	485	30	250	140	625	168	830	349	445	53	18	60
75	CMTK - 280S	457	545	35	280	140	685	190	985	368	490	58	18	65
90	CMTK - 280M	457	545	35	280	140	685	190	1030	419	540	58	18	65
110	CMTK - 315S	508	630	45	315	140	870	216	1180	406	570	58	18	65
132	CMTK - 315M	508	630	45	315	140	870	216	1290	457	680	58	18	65
160	CMTK - 315LA	508	630	45	315	140	870	216	1320	508	680	65	18	65
200	CMTK - 315LB	508	630	45	315	140	870	216	1320	508	680	65	18	65
250	CMTK - 355M	610	730	52	355	170	970	254	1556	630	750	80	22	85
280	CMTK - 355LA	610	730	52	355	170	970	254	1556	630	750	80	22	85
315	CMTK - 355LB	610	730	52	355	170	970	254	1556	630	750	80	22	85
355	CMTK - 355LC	610	730	52	355	170	970	254	1556	630	750	80	22	85
400	CMTK - 355X	630	760	52	355	140	1020	254	1880	710	1140	67,5	20	75
450	CMTK - 355X	630	760	52	355	140	1020	254	1880	710	1140	67,5	20	75
500	CMTK - 355X	630	760	52	355	140	1020	254	1880	710	1140	67,5	20	75
560	CMTK - 400X	686/710	870	50	400	170	1100	280	2000	800	1200	71	22	80
630	CMTK - 400X	686/710	870	50	400	170	1100	280	2000	800	1200	71	22	80
710	CMTK - 400X	686/710	870	50	400	170	1100	280	2000	800	1200	71	22	80
800	CMTK - 450X	800	980	45	450	170	1290	280	2380	1000	1495	86	25	95
900	CMTK - 450X	800	980	45	450	170	1290	280	2380	1000	1495	86	25	95
1000	CMTK - 450X	800	980	45	450	170	1290	280	2380	1000	1495	86	25	95

Please ask for the options below:

- Different cooling options
  IC 416, IC 616, IC 666 and water coolings
- Different Installations
  IM B5, B34, B35, V1, V3, V6...etc
- Insulation / Temp. range options
  CL H insulation / F Temp. range
- Bearing Options
  Anti-friction and insulated bearings
- IP Protection class options
  IP 23, IP54, IP56, IP65
- Energy Efficient motor options
  IE4 super premium and IE5 ultra premium
- Encoder & Sensor Options
  PT100, PTC, Encoder and Vibration Sensors
- Tailor Made options
  Specific electrical design and dimensions

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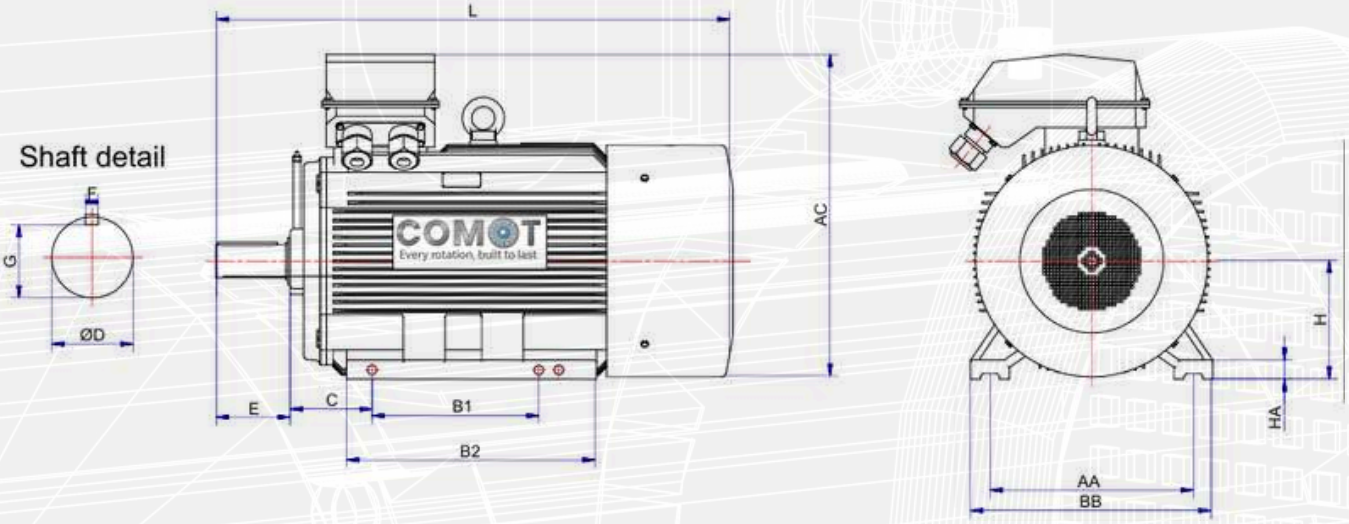
Technical Data for Low Voltage Squirrel Cage Three Phase Motors

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

B3 - 4Pole / 1500rpm MOTOR DIMENSIONS



Frame Size -B3 Installation Approx. Dimensions														
IEC		AA	BB	HA	H	E	AC	C	L	B1	B2	G	F	ØD
Power (kW)	Frame-4 Pole (mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
55	CMTK - 250M	406	485	30	250	140	625	168	870	349	445	58	18	65
75	CMTK - 280S	457	545	35	280	140	685	190	1010	368	490	67,5	20	75
90	CMTK - 280M	457	545	35	280	140	685	190	1060	419	540	67,5	20	75
110	CMTK - 315S	508	630	45	315	170	870	216	1210	406	570	71	22	80
132	CMTK - 315M	508	630	45	315	170	870	216	1290	457	680	71	22	80
160	CMTK - 315LA	508	630	45	315	170	870	216	1320	508	680	71	22	80
200	CMTK - 315LB	508	630	45	315	170	870	216	1320	508	680	71	22	80
250	CMTK - 355M	610	730	52	355	210	970	254	1556	630	750	100	28	100
280	CMTK - 355LA	610	730	52	355	210	970	254	1556	630	750	100	28	100
315	CMTK - 355LB	610	730	52	355	210	970	254	1556	630	750	100	28	100
355	CMTK - 355LC	610	730	52	355	210	970	254	1556	630	750	100	28	100
400	CMTK - 355X	630	760	52	355	170	1020	254	1910	710	1140	86	25	95
450	CMTK - 355X	630	760	52	355	170	1020	254	1910	710	1140	86	25	95
500	CMTK - 355X	630	760	52	355	170	1020	254	1910	710	1140	86	25	95
560	CMTK - 400X	686/710	870	50	400	210	1100	280	2040	800	1200	100	28	110
630	CMTK - 400X	686/710	870	50	400	210	1100	280	2040	800	1200	100	28	110
710	CMTK - 400X	686/710	870	50	400	210	1100	280	2040	800	1200	100	28	110
800	CMTK - 450X	800	980	45	450	210	1290	280	2420	1000	1495	109	32	120
900	CMTK - 450X	800	980	45	450	210	1290	280	2420	1000	1495	109	32	120
1000	CMTK - 500X	900	1080	65	500	250	1365	315	2560		1600	128	36	140
1120	CMTK - 500X	900	1080	65	500	250	1365	315	2560		1600	128	36	140
1250	CMTK - 500X	900	1080	65	500	250	1365	315	2560		1600	128	36	140
1400	CMTK - 560X	1000	1170	76	560	300	1480	355	2700		1680	147	40	160
1500	CMTK - 500X	1000	1170	76	560	300	1480	355	2700		1680	147	40	160
1600	CMTK - 560X	1000	1170	76	560	300	1480	355	2700		1680	147	40	160
1800	CMTK - 560X	1000	1170	76	560	300	1480	355	2700		1680	147	40	160

Please ask for the options below:

- Different cooling options
  IC 416, IC 616, IC 666 and water coolings
- Different Installations
  IM B5, B34, B35, V1, V3, V6...etc
- Insulation / Temp. range options
  CL H insulation / F Temp. range
- Bearing Options
  Anti-friction and insulated bearings
- IP Protection class options
  IP 23, IP54, IP56, IP65
- Energy Efficient motor options
  IE4 super premium and IE5 ultra premium
- Encoder & Sensor Options
  PT100, PTC, Encoder and Vibration Sensors
- Tailor Made options
  Specific electrical design and dimensions

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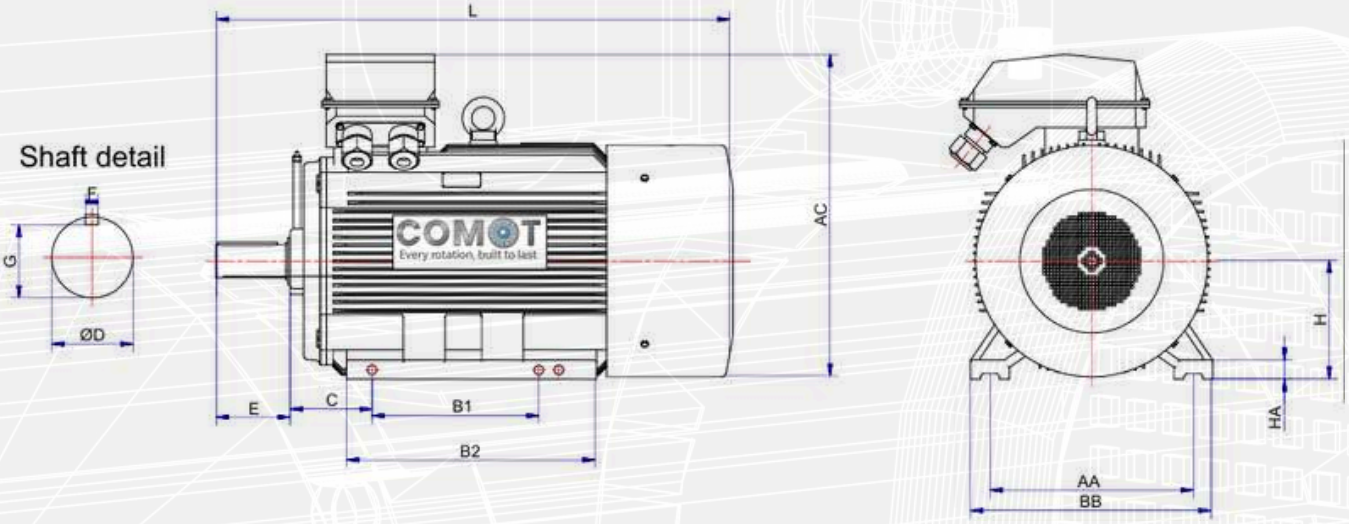
Technical Data for Low Voltage Squirrel Cage Three Phase Motors

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

B3 - 6Pole / 1000rpm MOTOR DIMENSIONS



Frame Size -B3 Installation Approx. Dimensions

IEC		AA	BB	HA	H	E	AC	C	L	B1	B2	G	F	ØD
Power (kW)	Frame-6 Pole (mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
55	CMTK - 280M	457	545	35	280	140	685	190	1060	419	540	67,5	20	75
75	CMTK - 315S	508	630	45	315	170	870	216	1210	406	570	71	22	80
90	CMTK - 315M	508	630	45	315	170	870	216	1290	457	680	71	22	80
110	CMTK - 315LA	508	630	45	315	170	870	216	1320	508	680	71	22	80
132	CMTK - 315LB	508	630	45	315	170	870	216	1320	508	680	71	22	80
160	CMTK - 315MA	508	630	45	315	170	870	216	1290	457	680	71	22	80
200	CMTK - 355MC	610	730	52	355	210	970	254	1556	630	750	100	28	100
250	CMTK - 355LB	610	730	52	355	210	970	254	1556	630	750	100	28	100
280	CMTK - 355LC	610	730	52	355	210	970	254	1556	630	750	100	28	100
315	CMTK - 355X	630	760	52	355	170	1020	254	1910	710	1140	86	25	95
355	CMTK - 355X	630	760	52	355	170	1020	254	1910	710	1140	86	25	95
400	CMTK - 355X	630	760	52	355	170	1020	254	1910	710	1140	86	25	95
450	CMTK - 400X	686/710	870	50	400	210	1100	280	2040	800	1200	100	28	110
500	CMTK - 400X	686/710	870	50	400	210	1100	280	2040	800	1200	100	28	110
560	CMTK - 400X	686/710	870	50	400	210	1100	280	2040	800	1200	100	28	110
630	CMTK - 450X	800	980	45	450	210	1290	280	2420	1000	1495	109	32	120
710	CMTK - 450X	800	980	45	450	210	1290	280	2420	1000	1495	109	32	120
800	CMTK - 450X	800	980	45	450	210	1290	280	2420	1000	1495	109	32	120
900	CMTK - 500X	900	1080	65	500	250	1365	315	2560		1600	128	36	140
1000	CMTK - 500X	900	1080	65	500	250	1365	315	2560		1600	128	36	140
1120	CMTK - 500X	900	1080	65	500	250	1365	315	2560		1600	128	36	140
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1400	CMTK - 560X	1000	1170	76	560	300	1480	355	2700		1680	147	40	160
1500	CMTK - 560X	1000	1170	76	560	300	1480	355	2700		1680	147	40	160
1600	CMTK - 560X	1000	1170	76	560	300	1480	355	2700		1680	147	40	160

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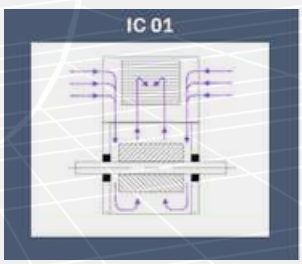
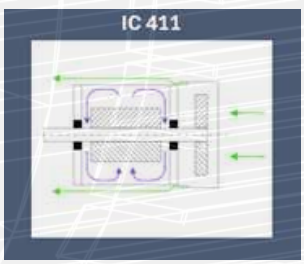
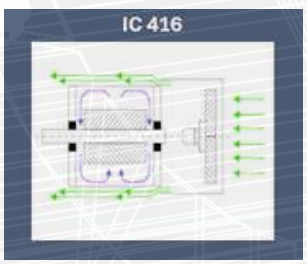
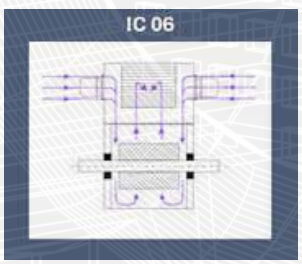
Asynchronous Squirrel Cage Motor Cooling Methods

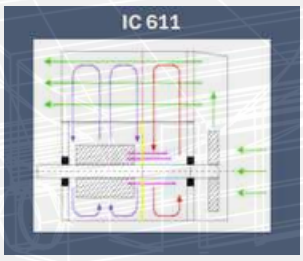
IC CODE	COOLING METHOD	COMMON USE
IC 01	Open Drip Proof (ODP)	Indoor, clean environments
IC 411	Totally Enclosed Fan Cooled	General industrial use
IC 416	Forced Ventilation	Variable speed drives
IC 06	Ducted External Blower	Harsh environments
IC 611	Closed Circuit Air (Shaft Fan)	Large motors, limited airflow
IC 616	Closed Circuit Air (External Fan)	Controlled environments
IC 8A1W7	Liquid Cooled	High power density applications
IC 666	Air to Air Heat Exchanger	Dusty or explosive environments

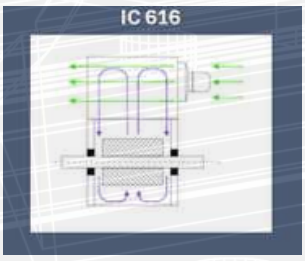


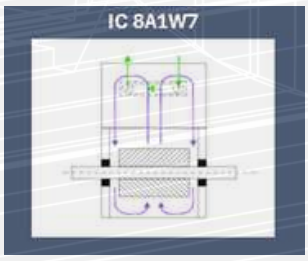


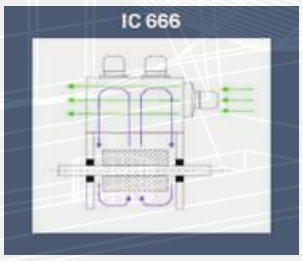












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