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# Technical Catalog

## CMTKH SERIES

MEDIUM AND HIGH VOLTAGE ASYNCHRONOUS MOTOR SERIES

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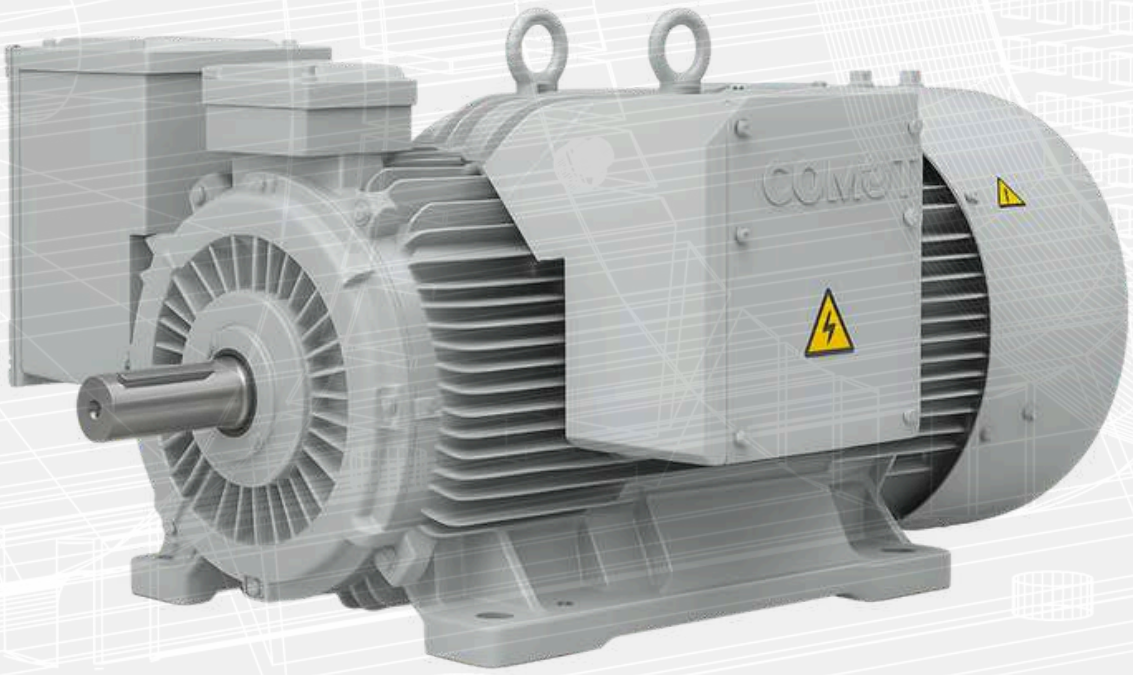
# MEDIUM & HIGH VOLTAGE MOTORS

## Three Phase Asynchronous Squirrel Cage Motors

The **CMTKH** Medium & High Voltage motor series is 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 Squirrel Cage Motor Product Code Selection

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

## 1 Product Family

| | |
|---|---|
| CMTKH | Asynchronous motor code |

## 2 Motor Power kW

| | |
|---|---|
| 0200 | 200 kW |
| 0220 | 220 kW |
| 0250 | 250 kW |
| 0280 | 280 kW |
| 0315 | 315 kW |
| 0355 | 355 kW |
| 0400 | 400 kW |
| 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 |
| 1250 | 1250 kW |
| 1400 | 1400 kW |
| 1600 | 1600 Kw |
| 0XX0 | Special Power Requests |

## 3 Efficiency Class

| | |
|---|---|
| 00 | IEC |
| 01 | IE1 |
| 02 | IE2 |
| 03 | IE3 |
| 04 | IE4 |

## 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 666 |
| C07 | IC 8A1W7 |

## 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 | V1 |
| IM03 | V3 |
| 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 | CE NORM |

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# MEDIUM & HIGH VOLTAGE MOTORS

## FEATURES

### Specifical Key Features of Comot CMTKH Series

- High efficiency design for reduced energy consumption and optimized total cost of ownership
- Robust and compact construction suitable for high-power and high-voltage applications
- Heavy-duty bearing system designed for high radial and axial loads
- Low vibration levels ensuring smooth operation and extended service intervals
- High-grade insulation system (Class F with VPI, Class H on request) for enhanced thermal endurance
- Proven reliability and long service life under continuous and severe operating conditions
- High overload capability and excellent thermal performance
- Wide range of cooling methods, protection classes, and mounting arrangements available
- 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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# MEDIUM & HIGH 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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# MEDIUM & HIGH 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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# MEDIUM & HIGH 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.

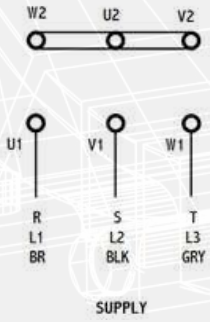
As delivered, the motors are balanced to the “half-key” quality level. Full-key balancing can be provided upon request.

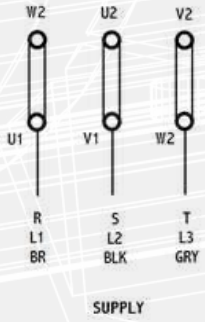
## NOISE LEVEL

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:

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 ± 5%. Special voltages and deviating voltage tolerances are available upon request.

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# MEDIUM & HIGH 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 Medium Voltage Squirrel Cage Three Phase Motors

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

## 2 Poles - 3000rpm, 2kV to 6kV

| MOTOR TYPE ( 2 Poles ) | Power | Speed | Current @6kV | Current @3.3kV | 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. |
| CMTKH 200 / 315 - 2 | 200 | 2980 | 24 | 44 | 641 | 2.5 | 94.5 | 0.84 | 2.00 | 1820 |
| CMTKH 220 / 315 - 2 | 220 | 2980 | 27 | 48 | 705 | 2.6 | 94.7 | 0.84 | 2.00 | 1880 |
| CMTKH 250 / 315- 2 | 250 | 2980 | 30 | 55 | 801 | 2.6 | 94.9 | 0.84 | 3.00 | 1910 |
| CMTKH 280 / 315- 2 | 280 | 2980 | 33 | 60 | 897 | 2.7 | 95.2 | 0.86 | 3.00 | 2020 |
| CMTKH 315 / 315- 2 | 315 | 2980 | 37 | 67 | 1009 | 2.7 | 95.5 | 0.86 | 3.00 | 2110 |
| CMTKH 355 / 355- 2 | 355 | 2980 | 42 | 75 | 1138 | 2.5 | 95.7 | 0.86 | 5.00 | 2490 |
| CMTKH 400 / 355- 2 | 400 | 2980 | 47 | 85 | 1282 | 2.5 | 95.8 | 0.86 | 5.00 | 2560 |
| CMTKH 450 / 355- 2 | 450 | 2980 | 53 | 95 | 1442 | 2.6 | 95.9 | 0.86 | 6.00 | 2610 |
| CMTKH 500 / 355- 2 | 500 | 2980 | 58 | 106 | 1602 | 2.6 | 96.0 | 0.86 | 6.00 | 2690 |
| CMTKH 560 / 400- 2 | 560 | 2980 | 65 | 118 | 1795 | 2.7 | 95.8 | 0.87 | 8.00 | 3410 |
| CMTKH 630 / 400- 2 | 630 | 2980 | 72 | 130 | 2019 | 2.7 | 96.0 | 0.88 | 8.00 | 3520 |
| CMTKH 710 / 400- 2 | 710 | 2980 | 80 | 145 | 2275 | 2.8 | 96.2 | 0.89 | 9.00 | 3590 |
| CMTKH 800 / 450- 2 | 800 | 2985 | 91 | 166 | 2559 | 2.5 | 96.0 | 0.88 | 16.00 | 4610 |
| CMTKH 900 / 450- 2 | 900 | 2985 | 102 | 186 | 2879 | 2.5 | 96.1 | 0.88 | 18.00 | 4890 |
| CMTKH 1000 / 450- 2 | 1000 | 2985 | 114 | 207 | 3199 | 2.5 | 96.2 | 0.88 | 20.00 | 5100 |
| CMTKH 1120 / 450-2 | 1120 | 2985 | 127 | 231 | 3583 | 2.6 | 96.3 | 0.88 | 22.00 | 5410 |

- Please contact with us larger powers
- Please contact with us for your 10 pole and 12 pole requests

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# Technical Data for Medium Voltage Squirrel Cage Three Phase Motors

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

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

| MOTOR TYPE ( 4 Poles ) | Power | Speed | Current @6kV | Current @3.3kV | 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. |
| CMTKH 200 / 315 - 4 | 200 | 1485 | 24 | 44 | 1286 | 2.2 | 93.9 | 0.84 | 6.00 | 1810 |
| CMTKH 220 / 315 - 4 | 220 | 1485 | 27 | 49 | 1415 | 2.2 | 94.1 | 0.84 | 7.00 | 1860 |
| CMTKH 250 / 315 - 4 | 250 | 1485 | 30 | 55 | 1608 | 2.2 | 94.3 | 0.84 | 7.00 | 1910 |
| CMTKH 280 / 315 - 4 | 280 | 1485 | 33 | 60 | 1801 | 2.2 | 94.5 | 0.86 | 8.00 | 1990 |
| CMTKH 315 / 315 - 4 | 315 | 1485 | 38 | 69 | 2026 | 2.2 | 94.6 | 0.85 | 8.00 | 2100 |
| CMTKH 315 / 355 - 4 | 315 | 1490 | 38 | 69 | 2019 | 2.2 | 94.5 | 0.85 | 10.00 | 2590 |
| CMTKH 355 / 355- 4 | 355 | 1490 | 42 | 76 | 2275 | 2.2 | 94.8 | 0.85 | 12.00 | 2760 |
| CMTKH 400 / 355- 4 | 400 | 1490 | 48 | 87 | 2564 | 2.2 | 95.0 | 0.85 | 14.00 | 2910 |
| CMTKH 450 / 355- 4 | 450 | 1490 | 54 | 98 | 2884 | 2.2 | 95.2 | 0.85 | 15.00 | 3060 |
| CMTKH 500 / 355- 4 | 500 | 1490 | 58 | 105 | 3205 | 2.2 | 95.4 | 0.87 | 16.00 | 3190 |
| CMTKH 560 / 400- 4 | 560 | 1490 | 65 | 118 | 3589 | 2.2 | 96.1 | 0.86 | 18.00 | 3710 |
| CMTKH 630 / 400- 4 | 630 | 1490 | 74 | 135 | 4038 | 2.2 | 95.5 | 0.86 | 19.00 | 3910 |
| CMTKH 710 / 400- 4 | 710 | 1490 | 82 | 149 | 4551 | 2.2 | 95.8 | 0.87 | 20.00 | 4090 |
| CMTKH 800 / 450- 4 | 800 | 1490 | 94 | 171 | 5128 | 2.2 | 95.7 | 0.86 | 31.00 | 5010 |
| CMTKH 900 / 450- 4 | 900 | 1490 | 104 | 189 | 5768 | 2.2 | 96.1 | 0.87 | 32.00 | 5320 |
| CMTKH 1000 / 450- 4 | 1000 | 1490 | 117 | 213 | 6409 | 2.2 | 95.9 | 0.86 | 34.00 | 5710 |
| CMTKH 1120 / 500- 4 | 1120 | 1490 | 131 | 238 | 7179 | 2.2 | 96.0 | 0.86 | 37.00 | 6030 |
| CMTKH 1250 / 500- 4 | 1250 | 1490 | 141 | 256 | 8012 | 2.2 | 96.8 | 0.88 | 53.00 | 7220 |
| CMTKH 1400 / 560- 4 | 1400 | 1490 | 161 | 293 | 8973 | 2.2 | 96.2 | 0.87 | 58.00 | 7410 |
| CMTKH 1600 / 560- 4 | 1600 | 1490 | 182 | 331 | 10255 | 2.2 | 96.2 | 0.88 | 62.00 | 7720 |
| CMTKH 1800 / 560- 4 | 1800 | 1490 | 206 | 375 | 11537 | 2.2 | 96.5 | 0.87 | 78.00 | 8590 |
| CMTKH 2000 / 560- 4 | 2000 | 1490 | 227 | 413 | 12819 | 2.2 | 96.3 | 0.88 | 82.00 | 9020 |

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# Technical Data for Medium Voltage Squirrel Cage Three Phase Motors

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

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

| MOTOR TYPE ( 6 Poles ) | Power | Speed | Current @6kV | Current @3.3kV | 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. |
| CMTKH 185 / 315 - 6 | 185 | 990 | 24 | 44 | 1785 | 2.2 | 93.5 | 0.80 | 7.00 | 2010 |
| CMTKH 200 / 315 - 6 | 200 | 990 | 25 | 45 | 1929 | 2.2 | 93.6 | 0.81 | 8.00 | 2090 |
| CMTKH 220 / 315 - 4 | 220 | 990 | 28 | 51 | 2122 | 2.2 | 93.8 | 0.81 | 9.00 | 2200 |
| CMTKH 250 / 355-6 | 250 | 990 | 31 | 56 | 2412 | 2.2 | 93.9 | 0.82 | 10.00 | 3020 |
| CMTKH 280 / 355-6 | 280 | 990 | 35 | 64 | 2701 | 2.2 | 94.1 | 0.82 | 12.00 | 3110 |
| CMTKH 315 / 355-6 | 315 | 990 | 39 | 71 | 3039 | 2.2 | 94.3 | 0.83 | 15.00 | 3220 |
| CMTKH 355 / 355-6 | 355 | 990 | 44 | 80 | 3424 | 2.2 | 94.5 | 0.83 | 18.00 | 3410 |
| CMTKH 400 / 400-6 | 400 | 990 | 48 | 87 | 3859 | 2.2 | 95.9 | 0.83 | 20.00 | 3720 |
| CMTKH 450 / 400-6 | 450 | 990 | 54 | 98 | 4341 | 2.2 | 95.9 | 0.84 | 24.00 | 3910 |
| CMTKH 500 / 400-6 | 500 | 990 | 60 | 109 | 4823 | 2.2 | 96.1 | 0.84 | 28.00 | 4110 |
| CMTKH 560 / 450-6 | 560 | 990 | 67 | 122 | 5402 | 2.2 | 96.1 | 0.84 | 35.00 | 5490 |
| CMTKH 630 / 450-6 | 630 | 990 | 75 | 136 | 6077 | 2.2 | 96.2 | 0.84 | 45.00 | 5720 |
| CMTKH 710 / 450-6 | 710 | 990 | 85 | 155 | 6849 | 2.2 | 96.2 | 0.84 | 50.00 | 5900 |
| CMTKH 800 / 450-6 | 800 | 990 | 95 | 173 | 7717 | 2.2 | 96.4 | 0.84 | 58.00 | 6110 |
| CMTKH 900 / 500-6 | 900 | 990 | 106 | 193 | 8682 | 2.2 | 96.3 | 0.85 | 63.00 | 7120 |
| CMTKH 1000 / 500-6 | 1000 | 990 | 118 | 215 | 9646 | 2.2 | 96.3 | 0.85 | 72.00 | 7290 |
| CMTKH 1120 / 500-6 | 1120 | 990 | 130 | 236 | 10804 | 2.2 | 96.4 | 0.86 | 77.00 | 7520 |
| CMTKH 1250 / 500-6 | 1250 | 990 | 145 | 264 | 12058 | 2.2 | 96.5 | 0.86 | 81.00 | 7710 |
| CMTKH 1400 / 560-6 | 1400 | 990 | 160 | 291 | 13505 | 2.2 | 96.5 | 0.87 | 115.00 | 8800 |
| CMTKH 1600 / 560- 6 | 1600 | 990 | 183 | 333 | 15434 | 2.2 | 96.7 | 0.87 | 124.00 | 9120 |

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# Technical Data for Medium Voltage Squirrel Cage Three Phase Motors

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

## 8 Poles - 750rpm, 2kV to 6kV

| MOTOR TYPE ( 8 Poles ) | Power | Speed | Current @6kV | Current @3.3kV | 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. |
| CMTKH 160 / 355-8 | 160 | 740 | 22 | 40 | 2065 | 2.2 | 94.2 | 0.80 | 15.00 | 3410 |
| CMTKH 185 / 355-8 | 185 | 740 | 25 | 45 | 2388 | 2.2 | 94.3 | 0.80 | 16.00 | 3490 |
| CMTKH 200 / 355-8 | 200 | 740 | 26 | 47 | 2581 | 2.2 | 94.5 | 0.80 | 19.00 | 3590 |
| CMTKH 220 / 355-8 | 220 | 740 | 29 | 53 | 2839 | 2.2 | 94.7 | 0.90 | 20.00 | 3720 |
| CMTKH 250 / 355-8 | 250 | 740 | 32 | 58 | 3226 | 2.2 | 94.9 | 0.90 | 24.00 | 3810 |
| CMTKH 280 / 400-8 | 280 | 740 | 36 | 65 | 3614 | 2.2 | 95.0 | 0.90 | 28.00 | 4190 |
| CMTKH 315 / 400-8 | 315 | 740 | 40 | 73 | 4065 | 2.2 | 95.0 | 0.90 | 30.00 | 4310 |
| CMTKH 355 / 400-8 | 355 | 740 | 45 | 82 | 4581 | 2.2 | 95.1 | 0.90 | 32.00 | 4400 |
| CMTKH 400 / 400-8 | 400 | 740 | 50 | 91 | 5162 | 2.2 | 95.2 | 0.90 | 34.00 | 4520 |
| CMTKH 450 / 450-8 | 450 | 740 | 56 | 102 | 5807 | 2.2 | 95.6 | 0.90 | 38.00 | 5010 |
| CMTKH 500 / 450-8 | 500 | 740 | 62 | 113 | 6453 | 2.2 | 95.8 | 0.90 | 40.00 | 5190 |
| CMTKH 560 / 450-8 | 560 | 740 | 69 | 125 | 7227 | 2.2 | 96.0 | 0.80 | 43.00 | 5520 |
| CMTKH 630 / 450-8 | 630 | 740 | 77 | 140 | 8130 | 2.2 | 96.2 | 0.80 | 44.00 | 5710 |
| CMTKH 710 / 500-8 | 710 | 740 | 87 | 158 | 9163 | 2.2 | 96.2 | 0.80 | 58.00 | 6610 |
| CMTKH 800 / 500-8 | 800 | 740 | 96 | 175 | 10324 | 2.2 | 96.2 | 0.80 | 67.00 | 6790 |
| CMTKH 900 / 500-8 | 900 | 740 | 108 | 196 | 11615 | 2.2 | 96.3 | 0.80 | 74.00 | 7010 |
| CMTKH 1000 / 560-8 | 1000 | 740 | 120 | 218 | 12905 | 2.2 | 96.6 | 0.90 | 126.00 | 8220 |
| CMTKH 1120 / 560-8 | 1120 | 740 | 134 | 244 | 14454 | 2.2 | 96.7 | 1.00 | 130.00 | 8410 |
| CMTKH 1250 / 560-8 | 1250 | 740 | 150 | 273 | 16132 | 2.2 | 96.8 | 1.00 | 148.00 | 8590 |

## High Voltage Series from 10kV to 13.8kV

| MOTOR TYPE | 2 Poles | 4 Poles | 6 Poles | 8 Poles |
|---|---|---|---|---|
| mm | kW | kW | kW | kW |
| 450 | 900 | 900 | 630 | 450 |
| 500 | | 1250 | 1000 | 710 |
| 560 | | 1600 | 1400 | 900 |

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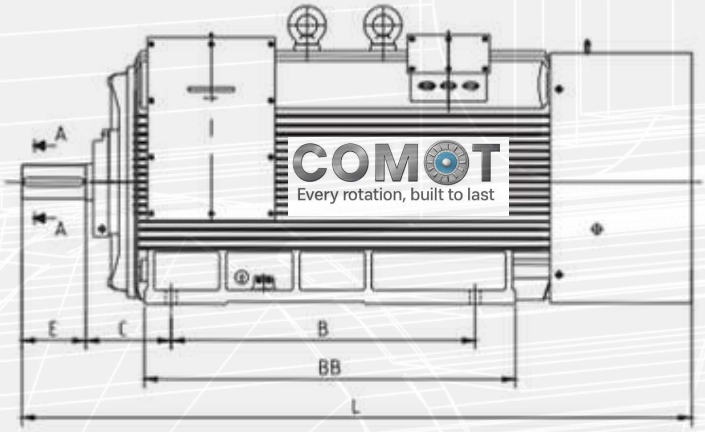
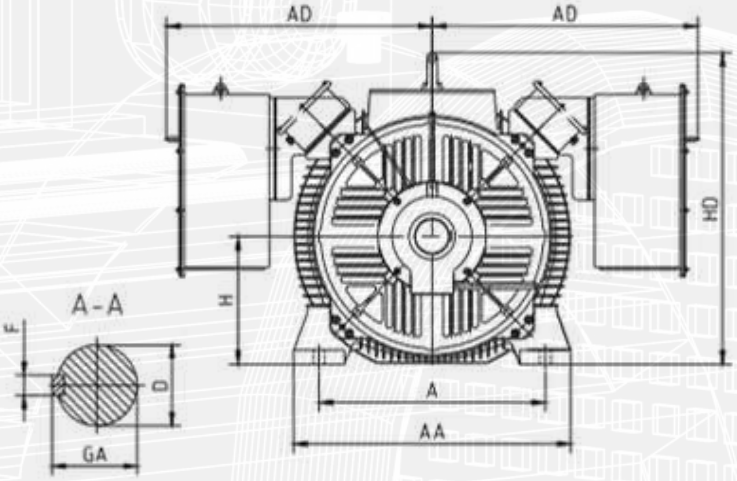
# Technical Drawings of Medium & High Voltage Squirrel Cage Three Phase Motors

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

### GENERAL MOTOR DIMENSIONS




| Frame Size | poles | A | B | C | D | E | F | H | L | AA | BB | HD | AD | GA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 315 | 2 | 560 | 800 | 216 | 70 | 140 | 20 | 315 | 2000 | 680 | 1080 | 775 | 765 | 74,5 |
| 315 | 4 - 6 | 560 | 800 | 216 | 90 | 170 | 25 | 315 | 2000 | 680 | 1080 | 775 | 765 | 95 |
| 355 | 2 | 630 | 900 | 254 | 75 | 140 | 20 | 355 | 2100 | 760 | 1140 | 895 | 790 | 79,5 |
| 355 | 4 - 8 | 630 | 900 | 254 | 100 | 210 | 28 | 355 | 2100 | 760 | 1140 | 895 | 790 | 106 |
| 400 | 2 | 710 | 1000 | 280 | 85 | 170 | 22 | 400 | 2200 | 870 | 1220 | 980 | 840 | 90 |
| 400 | 4 - 8 | 710 | 1000 | 280 | 120 | 210 | 32 | 400 | 2200 | 870 | 1220 | 980 | 840 | 127 |
| 450 | 2 | 800 | 1120 | 280 | 95 | 170 | 25 | 450 | 2500 | 980 | 1495 | 1140 | 890 | 100 |
| 450 | 4 - 8 | 800 | 1120 | 280 | 130 | 250 | 32 | 450 | 2500 | 980 | 1495 | 1140 | 890 | 137 |
| 500 | 4 - 8 | 900 | 1250 | 315 | 140 | 250 | 36 | 500 | 2800 | 1080 | 1600 | 1200 | 920 | 148 |
| 560 | 4 - 8 | 1000 | 1400 | 355 | 160 | 300 | 40 | 560 | 2900 | 1180 | 1680 | 1400 | 990 | 169 |

**Please ask for the options below:**

- Different cooling options
  **IC 416 external fan cooling option**
- Different Installations
  **IM B5, B34, B35, V1, V3, V6...etc**
- Insulation / Temp. range options
  **CL H insulation / F Temp. range**
- IP Protection class options
  **IP 23, IP54, IP56, IP65**
- Encoder & Sensor Options
  **PT100, PTC, Encoder and Vibration Sensors**
- Bearing Options
  **Anti-friction and insulated bearings**



## HEAD OFFICE

**COMOT MOTORS EU**

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