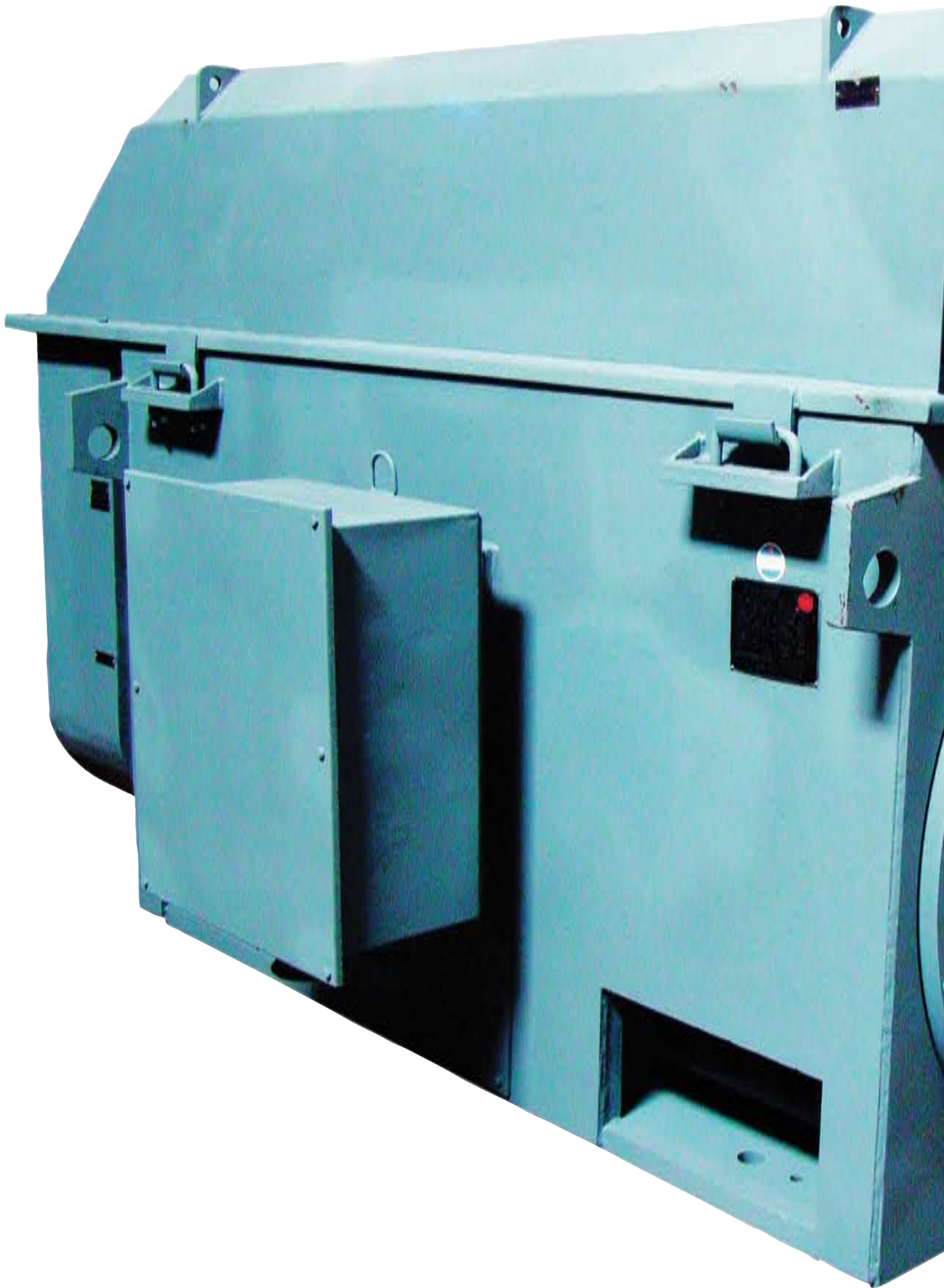
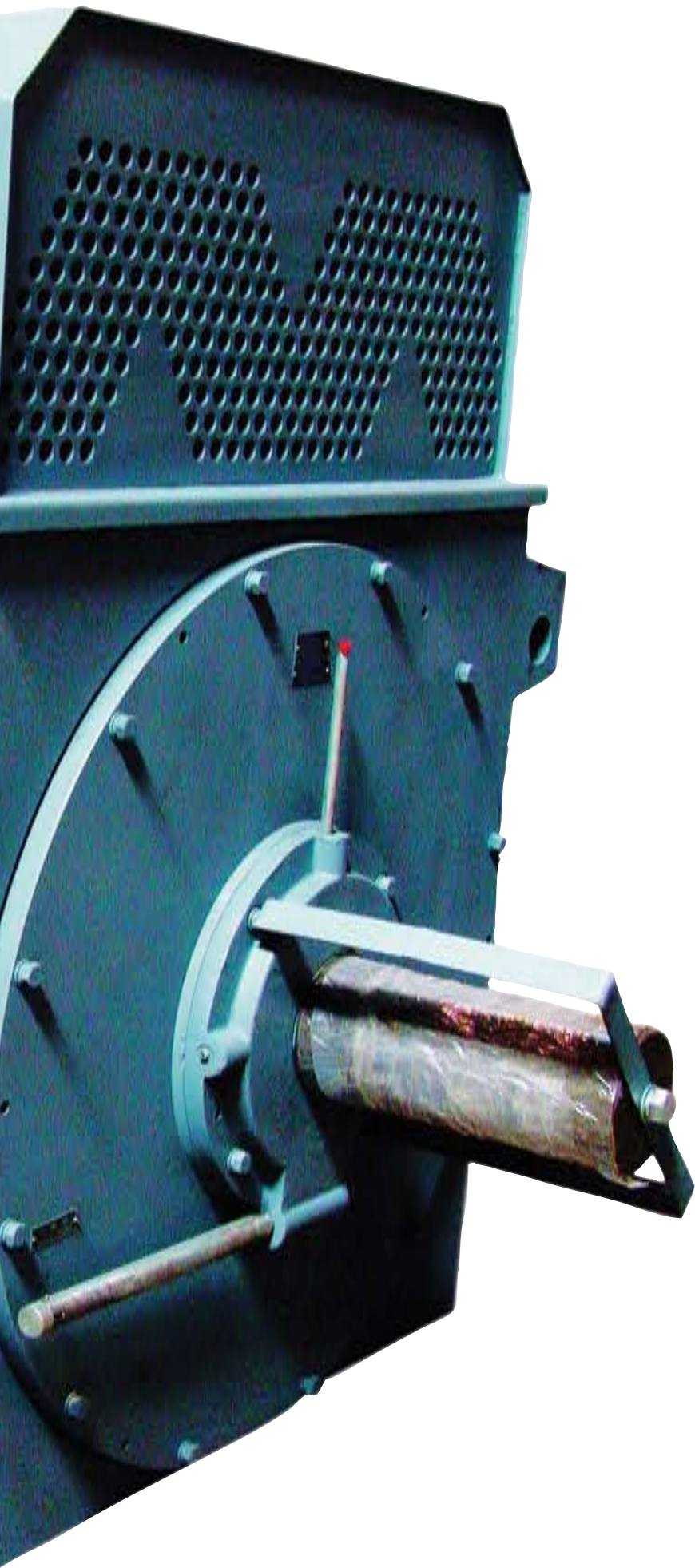


# TMKHV - series





# TMKHV-series

## Technical description

### IEC 355-630

#### Standard features

- Industrial series of MV motors
- Insulation class F, temperature rise 80°C
- SKF or NSK bearings
- PTC /PT100 protection for the windings
- PT100 protection for the bearings
- Top mounted cooler

#### Options

- 10kV windings
- Ask our possibilities for special designs, special dimensions, reverse engineering projects

# TMKHV-series

Three-phase motors with squirrel cage, protection degree IP55  
with top mounted air to air cooler

**2 POLES-3.000 Rpm, COOLING : IC 611**  
6.000V Y 50 Hz, Insulation class F

| Type       | Power | Speed | Efficiency | Power factor | Rated current (6000V) | Nominal torque | Moment of inertia GD <sup>2</sup> /4 | Starting current ratio | Starting torque ratio | Break-down torque | Net weight |
|------------|-------|-------|------------|--------------|-----------------------|----------------|--------------------------------------|------------------------|-----------------------|-------------------|------------|
|            | KW    | Rpm   | %          | σνφ          | Amp                   | Nm             | Kgm <sup>2</sup>                     | Ip/In                  | Mp/Mn                 | Mm/Mn             | Kg         |
| TMKHV355-2 | 250   | 2975  | 92,9       | 0,88         | 29,4                  | 803            | 3,8                                  | 6,4                    | 1,40                  | 2,90              | 2.110      |
| TMKHV355-2 | 315   | 2975  | 93,7       | 0,88         | 36,8                  | 1.011          | 4,3                                  | 6,9                    | 1,30                  | 2,80              | 2.460      |
| TMKHV400-2 | 355   | 2980  | 93,7       | 0,87         | 41,9                  | 1.138          | 5,2                                  | 6,7                    | 1,00                  | 3,00              | 2.580      |
| TMKHV400-2 | 400   | 2980  | 94,0       | 0,87         | 47,1                  | 1.282          | 5,5                                  | 7,9                    | 1,40                  | 3,50              | 2.730      |
| TMKHV400-2 | 450   | 2980  | 94,2       | 0,9          | 51,1                  | 1.442          | 5,8                                  | 6,3                    | 0,90                  | 3,10              | 2.990      |
| TMKHV400-2 | 500   | 2980  | 94,4       | 0,89         | 57,3                  | 1.602          | 6,2                                  | 6,8                    | 1,10                  | 2,50              | 3.220      |
| TMKHV450-2 | 560   | 2980  | 94,6       | 0,87         | 65,5                  | 1.795          | 13,0                                 | 6,6                    | 1,00                  | 2,30              | 3.630      |
| TMKHV450-2 | 630   | 2980  | 94,8       | 0,88         | 72,7                  | 2.019          | 14,0                                 | 6,7                    | 1,10                  | 2,30              | 3.720      |
| TMKHV450-2 | 710   | 2980  | 94,9       | 0,88         | 81,8                  | 2.275          | 16,0                                 | 6,9                    | 1,20                  | 2,50              | 3.850      |
| TMKHV450-2 | 800   | 2980  | 95,0       | 0,89         | 91,0                  | 2.564          | 18,0                                 | 6,7                    | 1,10                  | 2,30              | 3.980      |

# TMKHV-series

Three-phase motors with squirrel cage, protection degree IP55  
with top mounted air to air cooler

**4 POLES-1.500 Rpm, COOLING: IC 611**  
6.000V Y 50 Hz, Insulation class F

| Type       | Power | Speed | Efficiency | Power factor | Rated current (6000V) | Nominal torque | Moment of inertia GD <sup>2</sup> /4 | Starting current ratio | Starting-torque ratio | Break-down torque | Net weight |
|------------|-------|-------|------------|--------------|-----------------------|----------------|--------------------------------------|------------------------|-----------------------|-------------------|------------|
|            | KW    | Rpm   | %          | συνφ         | Amp                   | Nm             | Kgm <sup>2</sup>                     | Ip/In                  | Mp/Mn                 | Mm/Mn             | Kg         |
| TMKHV355-4 | 200   | 1480  | 93,5       | 0,86         | 23,9                  | 1.291          | 4,8                                  | 7,0                    | 1,40                  | 3,00              | 2.140      |
| TMKHV355-4 | 250   | 1480  | 94,1       | 0,88         | 29,1                  | 1.613          | 5,7                                  | 7,4                    | 1,70                  | 3,10              | 2.300      |
| TMKHV400-4 | 315   | 1485  | 93,7       | 0,88         | 36,8                  | 2.026          | 12,0                                 | 7,4                    | 0,80                  | 3,20              | 2.750      |
| TMKHV400-4 | 355   | 1485  | 94,0       | 0,88         | 41,3                  | 2.283          | 13,0                                 | 6,6                    | 1,30                  | 2,90              | 2.900      |
| TMKHV400-4 | 400   | 1485  | 94,3       | 0,89         | 45,9                  | 2.572          | 14,0                                 | 5,2                    | 1,20                  | 2,60              | 2.960      |
| TMKHV400-4 | 450   | 1485  | 94,5       | 0,88         | 52,1                  | 2.894          | 16,0                                 | 5,7                    | 1,20                  | 2,80              | 3.120      |
| TMKHV450-4 | 500   | 1485  | 94,8       | 0,89         | 57,0                  | 3.215          | 16,0                                 | 6,4                    | 1,40                  | 3,30              | 3.700      |
| TMKHV450-4 | 560   | 1485  | 94,8       | 0,90         | 63,2                  | 3.601          | 17,0                                 | 6,6                    | 1,40                  | 2,90              | 3.790      |
| TMKHV450-4 | 630   | 1485  | 94,9       | 0,89         | 71,8                  | 4.052          | 19,0                                 | 6,3                    | 1,40                  | 2,70              | 3.880      |
| TMKHV450-4 | 710   | 1485  | 95,1       | 0,89         | 80,7                  | 4.566          | 20,0                                 | 6,2                    | 1,20                  | 2,60              | 4.020      |
| TMKHV500-4 | 800   | 1485  | 95,0       | 0,88         | 92,1                  | 5.145          | 29,0                                 | 6,1                    | 1,00                  | 2,10              | 4.980      |
| TMKHV500-4 | 900   | 1485  | 95,2       | 0,88         | 103,4                 | 5.788          | 32,0                                 | 6,3                    | 1,00                  | 2,20              | 5.120      |
| TMKHV500-4 | 1000  | 1485  | 95,4       | 0,88         | 114,6                 | 6.431          | 34,0                                 | 6,4                    | 0,90                  | 2,00              | 5.340      |
| TMKHV500-4 | 1120  | 1485  | 95,5       | 0,88         | 128,2                 | 7.203          | 37,0                                 | 6,2                    | 1,00                  | 2,20              | 5.580      |
| TMKHV560-4 | 1250  | 1485  | 95,0       | 0,88         | 143,9                 | 8.039          | 55,0                                 | 6,2                    | 0,80                  | 2,20              | 8.530      |
| TMKHV560-4 | 1400  | 1485  | 95,3       | 0,88         | 160,6                 | 9.003          | 60,0                                 | 6,4                    | 0,80                  | 2,10              | 8.780      |
| TMKHV560-4 | 1600  | 1485  | 95,4       | 0,88         | 183,4                 | 10.290         | 65,0                                 | 6,0                    | 0,90                  | 2,20              | 9.120      |
| TMKHV630-4 | 1800  | 1485  | 95,5       | 0,88         | 206,1                 | 11.576         | 126,0                                | 5,9                    | 0,80                  | 2,00              | 9.140      |
| TMKHV630-4 | 2000  | 1485  | 95,6       | 0,88         | 228,8                 | 12.862         | 140,0                                | 5,7                    | 0,80                  | 1,90              | 9.410      |
| TMKHV630-4 | 2240  | 1485  | 95,7       | 0,88         | 255,9                 | 14.405         | 156,0                                | 5,2                    | 0,80                  | 2,10              | 9.650      |

# TMKHV-series

Three-phase motors with squirrel cage, protection degree IP55  
with top mounted air to air cooler

**6 POLES-1.000 Rpm, COOLING: IC 611**  
6.000V Y 50 Hz, Insulation class F

| Type       | Power | Speed | Efficiency | Power factor | Rated current (6000V) | Nominal torque | Moment of inertia GD <sup>2</sup> /4 | Starting current ratio | Starting torque ratio | Break-down torque | Net weight |
|------------|-------|-------|------------|--------------|-----------------------|----------------|--------------------------------------|------------------------|-----------------------|-------------------|------------|
|            | KW    | Rpm   | %          | συνφ         | Amp                   | Nm             | Kgm <sup>2</sup>                     | Ip/In                  | Mp/Mn                 | Mm/Mn             | Kg         |
| TMKHV355-6 | 200   | 985   | 92,9       | 0,83         | 25,0                  | 1.939          | 9,5                                  | 5,5                    | 1,20                  | 2,40              | 2.270      |
| TMKHV400-6 | 250   | 990   | 94,0       | 0,83         | 30,9                  | 2.412          | 16,0                                 | 6,5                    | 1,20                  | 3,00              | 3.350      |
| TMKHV400-6 | 315   | 990   | 94,1       | 0,85         | 37,9                  | 3.039          | 17,0                                 | 5,6                    | 1,10                  | 2,10              | 3.630      |
| TMKHV450-6 | 355   | 985   | 94,0       | 0,85         | 42,8                  | 3.442          | 24,0                                 | 5,4                    | 1,00                  | 2,30              | 3.900      |
| TMKHV450-6 | 400   | 985   | 94,3       | 0,86         | 47,5                  | 3.878          | 25,0                                 | 5,6                    | 1,10                  | 2,60              | 4.200      |
| TMKHV450-6 | 450   | 985   | 94,5       | 0,86         | 53,3                  | 4.363          | 26,0                                 | 5,7                    | 1,20                  | 2,60              | 4.300      |
| TMKHV450-6 | 500   | 985   | 94,7       | 0,87         | 58,4                  | 4.848          | 28,0                                 | 5,9                    | 1,30                  | 2,70              | 4.530      |
| TMKHV500-6 | 560   | 990   | 94,6       | 0,86         | 66,2                  | 5.402          | 42,0                                 | 5,4                    | 1,00                  | 2,70              | 4.580      |
| TMKHV500-6 | 630   | 990   | 94,8       | 0,85         | 75,2                  | 6.077          | 45,0                                 | 5,7                    | 1,00                  | 2,30              | 4.600      |
| TMKHV500-6 | 710   | 990   | 95,0       | 0,85         | 84,6                  | 6.849          | 47,0                                 | 5,2                    | 1,00                  | 2,10              | 4.680      |
| TMKHV500-6 | 800   | 990   | 95,2       | 0,85         | 95,1                  | 7.717          | 50,0                                 | 5,5                    | 1,00                  | 2,10              | 4.870      |
| TMKHV560-6 | 900   | 990   | 95,0       | 0,85         | 107,3                 | 8.682          | 74,0                                 | 6,3                    | 0,80                  | 2,00              | 8.790      |
| TMKHV560-6 | 1000  | 990   | 95,1       | 0,85         | 119,0                 | 9.646          | 79,0                                 | 5,9                    | 0,80                  | 2,00              | 9.020      |
| TMKHV560-6 | 1120  | 990   | 95,2       | 0,85         | 133,2                 | 10.804         | 85,0                                 | 6,0                    | 0,80                  | 2,20              | 9.310      |
| TMKHV630-6 | 1250  | 990   | 95,3       | 0,86         | 146,8                 | 12.058         | 140,0                                | 5,1                    | 0,90                  | 1,90              | 9.100      |
| TMKHV630-6 | 1400  | 990   | 95,4       | 0,86         | 164,2                 | 13.505         | 151,0                                | 5,3                    | 1,00                  | 2,00              | 9.530      |
| TMKHV630-6 | 1600  | 990   | 95,5       | 0,86         | 187,5                 | 15.434         | 164,0                                | 5,4                    | 1,00                  | 2,00              | 9.870      |

# TMKHV-series

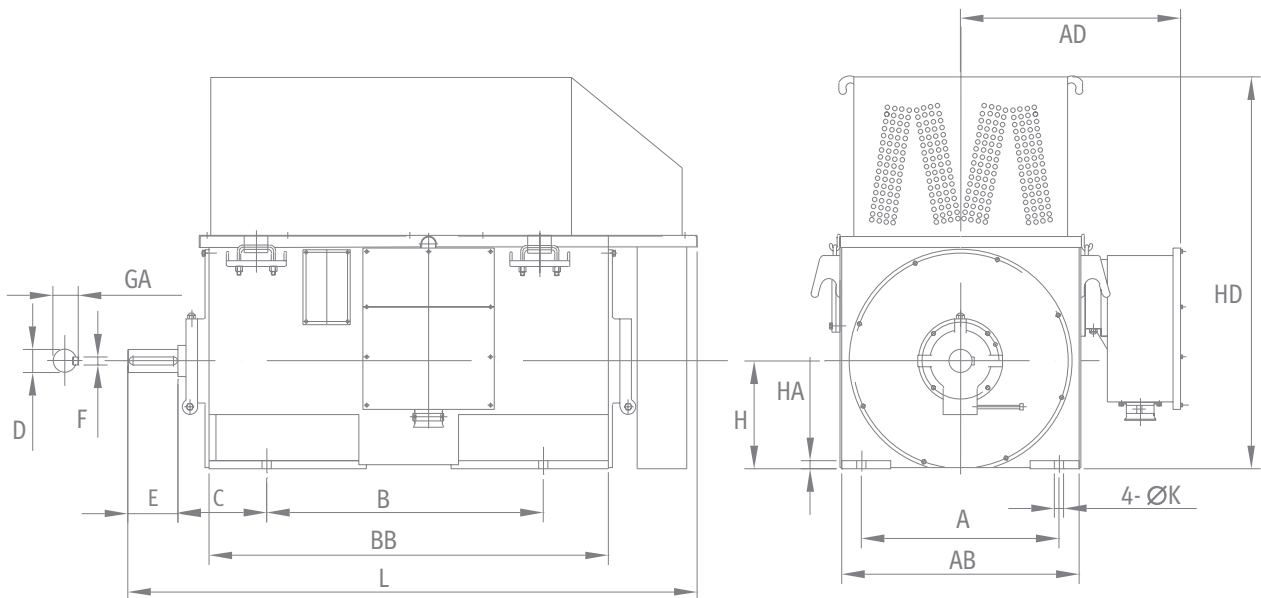
Three-phase motors with squirrel cage, protection degree IP55  
with top mounted air to air cooler

**8 POLES-750 Rpm, COOLING: IC 611**  
6.000V Y 50 Hz, Insulation class F

| Type       | Power | Speed | Efficiency | Power factor | Rated current (6000V) | Nominal torque | Moment of inertia GD <sup>2</sup> /4 | Starting current ratio | Starting torque ratio | Break-down torque | Net weight |
|------------|-------|-------|------------|--------------|-----------------------|----------------|--------------------------------------|------------------------|-----------------------|-------------------|------------|
|            | KW    | Rpm   | %          | συνφ         | Amp                   | Nm             | Kgm <sup>2</sup>                     | Ip/In                  | Mp/Mn                 | Mm/Mn             | Kg         |
| TMKHV400-8 | 200   | 740   | 93,0       | 0,78         | 26,5                  | 2.581          | 20,0                                 | 5,3                    | 1,20                  | 2,30              | 3.340      |
| TMKHV450-8 | 250   | 740   | 93,2       | 0,79         | 32,7                  | 3.226          | 25,0                                 | 5,4                    | 1,10                  | 2,50              | 3.890      |
| TMKHV450-8 | 315   | 740   | 93,7       | 0,80         | 40,4                  | 4.065          | 29,0                                 | 5,4                    | 1,10                  | 2,40              | 4.340      |
| TMKHV450-8 | 355   | 740   | 94,0       | 0,81         | 44,9                  | 4.581          | 31,0                                 | 5,5                    | 1,20                  | 2,50              | 4.600      |
| TMKHV500-8 | 400   | 740   | 93,9       | 0,83         | 49,4                  | 5.162          | 46,0                                 | 4,9                    | 0,90                  | 2,20              | 4.470      |
| TMKHV500-8 | 450   | 740   | 94,1       | 0,84         | 54,8                  | 5.807          | 50,0                                 | 4,9                    | 0,90                  | 2,40              | 4.560      |
| TMKHV500-8 | 500   | 740   | 94,3       | 0,84         | 60,7                  | 6.453          | 53,0                                 | 4,7                    | 0,80                  | 2,10              | 4.730      |
| TMKHV500-8 | 560   | 740   | 94,5       | 0,84         | 67,9                  | 7.227          | 57,0                                 | 4,9                    | 0,90                  | 2,40              | 4.920      |
| TMKHV560-8 | 630   | 740   | 94,5       | 0,82         | 78,2                  | 8.130          | 88,0                                 | 5,4                    | 0,90                  | 2,20              | 8.470      |
| TMKHV560-8 | 710   | 740   | 94,6       | 0,82         | 88,1                  | 9.163          | 94,0                                 | 5,2                    | 0,80                  | 2,10              | 8.610      |
| TMKHV560-8 | 800   | 740   | 94,9       | 0,82         | 98,9                  | 10.324         | 100,0                                | 5,6                    | 0,90                  | 2,20              | 8.950      |
| TMKHV630-8 | 900   | 740   | 94,8       | 0,84         | 108,8                 | 11.615         | 152,0                                | 4,9                    | 0,90                  | 2,00              | 8.800      |
| TMKHV630-8 | 1000  | 740   | 94,9       | 0,84         | 120,7                 | 12.905         | 163,0                                | 5,1                    | 1,00                  | 2,10              | 9.130      |
| TMKHV630-8 | 1120  | 740   | 95,0       | 0,84         | 135,1                 | 14.454         | 175,0                                | 4,8                    | 0,90                  | 2,00              | 9.450      |
| TMKHV630-8 | 1250  | 740   | 95,1       | 0,84         | 150,6                 | 16.132         | 188,0                                | 4,9                    | 0,80                  | 1,90              | 9.900      |

# TMKHV-series

## Dimension sheet



| Type           | H   | A    | B    | C   | AB   | BB   | HD   | HA | K  | D   | E   | F   | GA  | DB   | L    |
|----------------|-----|------|------|-----|------|------|------|----|----|-----|-----|-----|-----|------|------|
| TMKHV355-2     | 355 | 630  | 900  | 315 | 780  | 1350 | 1300 | 25 | 28 | 80  | 170 | 22  | 85  | M20  | 2150 |
| TMKHV355-4-6-8 |     |      |      |     |      |      |      |    |    | 100 | 210 | 28  | 106 | M24  | 2200 |
| TMKHV400-2     | 400 | 710  | 1000 | 375 | 900  | 1510 | 1550 | 26 | 35 | 90  | 170 | 25  | 100 | M24  | 2040 |
| TMKHV400-4-6-8 |     |      |      |     |      |      |      |    |    | 110 | 210 | 28  | 116 | M24  | 2080 |
| TMKHV450-2     | 450 | 800  | 1120 | 355 | 980  | 1640 | 1650 | 28 | 35 | 100 | 210 | 28  | 106 | M24  | 2280 |
| TMKHV450-4     |     |      |      |     |      |      |      |    |    | 120 |     | 32  | 127 | M24  | 2350 |
| TMKHV450-6-8   |     |      |      |     |      |      |      |    |    | 130 | 250 | 137 | M24 | 2460 |      |
| TMKHV500-4     | 500 | 900  | 1250 | 475 | 1112 | 1900 | 1900 | 28 | 42 | 130 | 250 | 32  | 137 | M24  | 2720 |
| TMKHV500-6-8   |     |      |      |     |      |      |      |    |    | 140 |     | 36  | 148 | M30  |      |
| TMKHV560-4     | 560 | 1000 | 1400 | 500 | 1220 | 1938 | 2250 | 45 | 42 | 150 | 250 | 36  | 158 | M24  | 2910 |
| TMKHV560-6-8   |     |      |      |     |      |      |      |    |    | 160 | 300 | 40  | 168 | M30  | 2960 |
| TMKHV630-4     | 630 | 1120 | 1600 | 530 | 1410 | 2140 | 2530 | 50 | 48 | 170 | 300 | 40  | 178 | M30  | 3150 |
| TMKHV630-6-8   |     |      |      |     |      |      |      |    |    | 180 |     | 45  | 188 | M30  |      |

| Type | Drive-End |         |         | Non-Drive End |         |         |
|------|-----------|---------|---------|---------------|---------|---------|
|      | 2p        | 4p      | 6, 8p   | 2p            | 4p      | 6, 8p   |
| 355  | 6317 C3   | 6322 C3 | 6322 C3 | 6317 C3       | 6322 C3 | 6322 C3 |
| 400  | 6319 C3   | 6324 C3 | 6324 C3 | 6319 C3       | 6324 C3 | 6324 C3 |
| 450  | 6220 C3   | 6326 C3 | 6328 C3 | 6220 C3       | 6326 C3 | 6328 C3 |
| 500  |           | 6330 C3 | 6330 C3 |               | 6328 C3 | 6328 C3 |
| 560  |           | NU 334  | NU 334  |               | 6334 C3 | 6334 C3 |
| 630  |           | NU 338  | NU 338  |               | 6338 C3 | 6338 C3 |