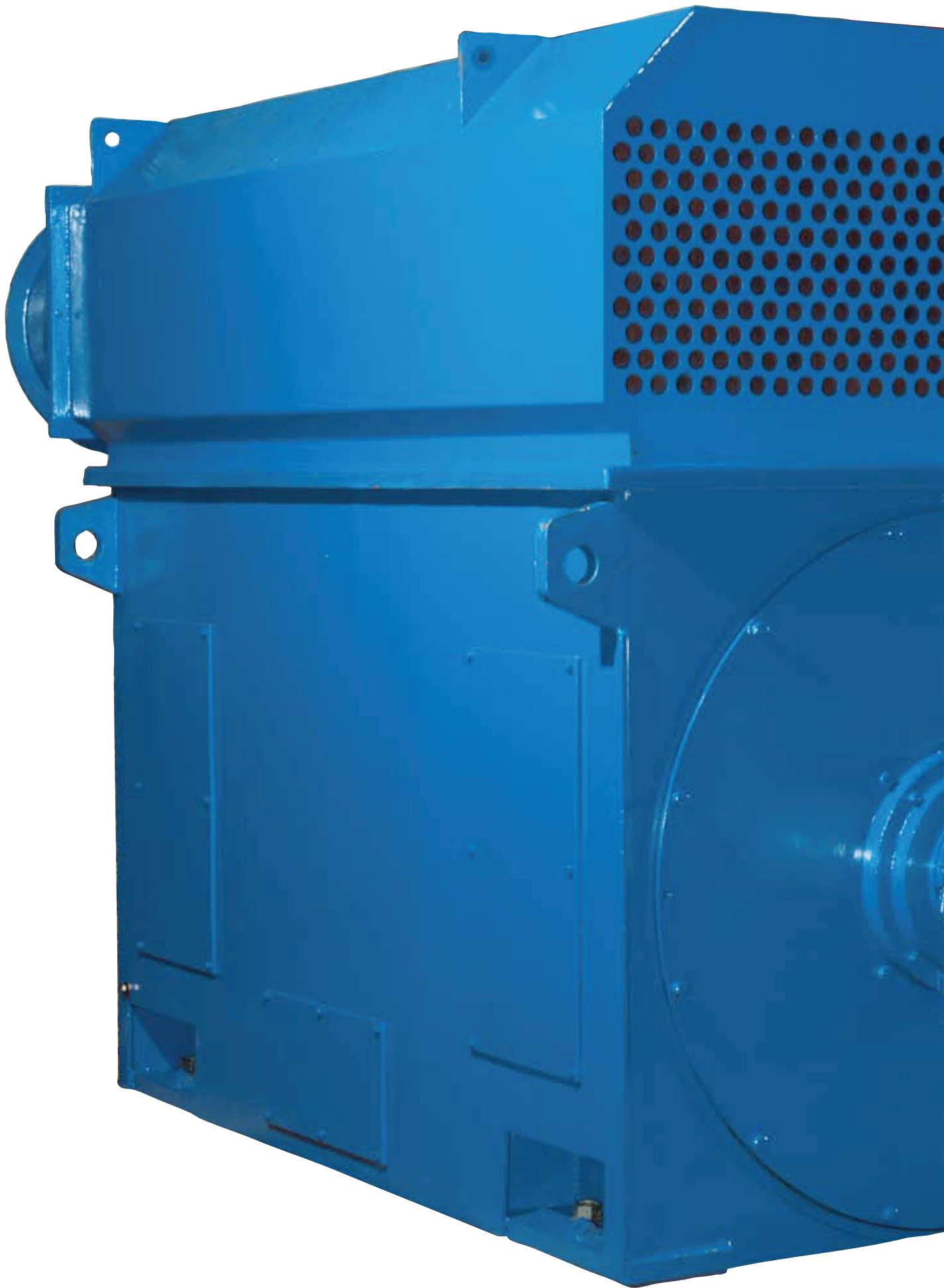




VALIADIS
HELLENIC MOTORS

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 ² /4 | Starting current ratio | Starting torque ratio | Break-down torque | Net weight |
|------------|-------|-------|------------|--------------|-----------------------|----------------|--------------------------------------|------------------------|-----------------------|-------------------|------------|
| | KW | Rpm | % | συνφ | Amp | Nm | Kgm ² | 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 ² /4 | Starting current ratio | Starting-torque ratio | Break-down torque | Net weight |
|------------|-------|-------|------------|--------------|-----------------------|----------------|--------------------------------------|------------------------|-----------------------|-------------------|------------|
| | KW | Rpm | % | συνφ | Amp | Nm | Kgm ² | 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 ² /4 | Starting current ratio | Starting torque ratio | Break-down torque | Net weight |
|------------|-------|-------|------------|--------------|-----------------------|----------------|--------------------------------------|------------------------|-----------------------|-------------------|------------|
| | KW | Rpm | % | συνφ | Amp | Nm | Kgm ² | 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

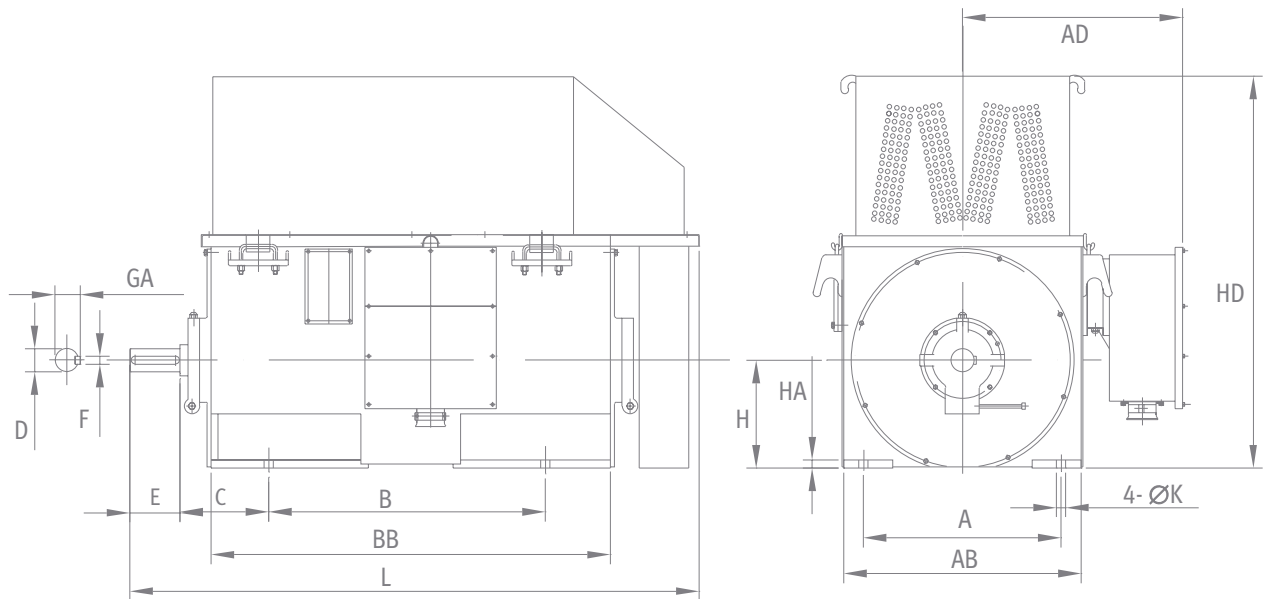
Three-phase motors with squirrel cage, protection degree IP55
with top mounted air to air cooler

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 ² /4 | Starting current ratio | Starting torque ratio | Break-down torque | Net weight |
|------------|-------|-------|------------|--------------|-----------------------|----------------|--------------------------------------|------------------------|-----------------------|-------------------|------------|
| | KW | Rpm | % | cosφ | Amp | Nm | Kgm ² | 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



MOUNTING B3

SIZE 355-630

| 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 | | | | | |
| TMKHV450-6-8 | | | | | | | | | | 130 | 250 | 32 | 137 | M24 | 2460 |
| TMKHV500-4 | 500 | 900 | 1250 | 475 | 1112 | 1900 | 1900 | 28 | 42 | 130 | 250 | 32 | 137 | M24 | 2720 |
| TMKHV500-6-8 | | | | | | | | | | 140 | | | | | |
| TMKHV560-4 | 560 | 1000 | 1400 | 500 | 1220 | 1938 | 2250 | 45 | 42 | 150 | 250 | 36 | 158 | M24 | 2910 |
| TMKHV560-6-8 | | | | | | | | | | 160 | | | | | |
| TMKHV630-4 | 630 | 1120 | 1600 | 530 | 1410 | 2140 | 2530 | 50 | 48 | 170 | 300 | 40 | 178 | M30 | 3150 |
| TMKHV630-6-8 | | | | | | | | | | 180 | | | | | |

BEARINGS

| 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 |



ATHENS: 18, Gr. Lambraki Str., 141 23 Likovrisi – tel: +30 2102817217, fax : +30 2102814277

THESSALONIKI: Industrial Area of Sindos., O.T. 48B, 15th Str., 570 22

tel: +30 2310796646 – fax: +30 2310796645

e-mail: valiadis@valiadis.gr – <https://www.valiadis.gr>

ROMANIA: 1, Aleea Meseriasilor, Bloc C93, Etaj 2, Ap. 16, Sector 6, 061647-Bucharest

tel: +40 214135902 – e-mail: romania@valiadis.gr – <https://www.ac-motors.eu>