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## YKK series High Voltage Motors (H355~630)

SIMO IMPORT & EXPORT CORP., LTD.

## **Brief introduction for YKK series motors**

### **Brief Introduction**

YKK series 6kV (10kV) motors are three phase squirrel cage induction motors. The protection degree is IP44 or IP54, and cooling method is IC611.

The motor has such advantage as high efficiency, energy saving, low noise, low vibration, light weight and reliable performance. It's easy for installation and maintenance as well.

The motors are used to drive various mechanical equipment such as blowers, compressors, pumps, crushers, stock removing machines. It also can serve as the prime movers in coal mines, mechanical industries, power plants and various industrial enterprises.

The base features as follow:

Rated voltage: 6kV, 10kV

Protection degree: IP44, IP54

Cooling method: IC611

Insulation class: F

Ambient temperature: not exceed 40°C

Altitude: not exceed 1000 meters

**Technical Data see the following list.**

| Type      | Rated power | Rated current | Speed | Efficiency | Power factor | Max. torque  | Start torque | Start current | GD <sup>2</sup> | Weight | Lubrication period |  |
|-----------|-------------|---------------|-------|------------|--------------|--------------|--------------|---------------|-----------------|--------|--------------------|--|
|           |             |               |       |            |              | Rated torque | Rated torque | Rated current |                 |        |                    |  |
|           | kW          | A             |       |            | r/min        | %            | COSΦ         |               |                 |        |                    |  |
| YKK3551-2 | 220         | 26.9          | 2975  | 92.5       | 0.85         | 1.8          | 0.6          | 7.0           |                 |        | 5000               |  |
| YKK3552-2 | 250         | 30.6          |       | 92.6       |              |              |              |               |                 |        |                    |  |
| YKK3553-2 | 280         | 34.2          |       | 92.8       |              |              |              |               |                 |        |                    |  |
| YKK3554-2 | 315         | 38.3          |       | 93.1       |              |              |              |               |                 |        |                    |  |
| YKK4003-2 | 355         | 42.5          |       | 93.4       | 0.86         |              |              |               |                 |        |                    |  |
| YKK4004-2 | 400         | 47.8          |       | 93.7       |              |              |              |               |                 |        |                    |  |
| YKK4005-2 | 450         | 53.6          |       | 94         |              |              |              |               |                 |        |                    |  |
| YKK4006-2 | 500         | 59.4          |       | 94.2       |              |              |              |               |                 |        |                    |  |
| YKK4502-2 | 560         | 66.4          |       | 94.4       |              |              |              |               |                 |        |                    |  |
| YKK4503-2 | 630         | 73.7          |       | 94.6       | 0.87         |              |              |               |                 |        |                    |  |
| YKK4504-2 | 710         | 82.9          |       | 94.7       |              |              |              |               |                 |        |                    |  |
| YKK4505-2 | 800         | 93.3          |       | 94.8       |              |              |              |               |                 |        |                    |  |
| YKK5001-2 | 900         | 104.8         |       | 95         |              |              |              |               |                 |        |                    |  |
| YKK5002-2 | 1000        | 116.3         |       | 95.1       |              |              |              |               |                 |        |                    |  |
| YKK5003-2 | 1120        | 130.1         |       | 95.2       | 0.88         |              |              |               |                 |        |                    |  |
| YKK5004-2 | 1250        | 145.1         |       | 95.3       |              |              |              |               |                 |        |                    |  |
| YKK5601-2 | 1400        | 160.5         |       | 95.4       |              |              |              |               |                 |        |                    |  |
| YKK5602-2 | 1600        | 183.2         |       | 95.5       |              |              |              |               |                 |        |                    |  |
| YKK5603-2 | 1800        | 205.9         |       | 95.6       |              |              |              |               |                 |        |                    |  |
| YKK6301-2 | 2000        | 228.5         |       | 95.7       |              |              |              |               |                 |        |                    |  |
| YKK6302-2 | 2240        | 255.7         |       | 95.8       |              |              |              |               |                 |        |                    |  |
| YKK6303-2 | 2500        | 285.1         |       | 95.9       |              |              |              |               |                 |        |                    |  |

| Type      | Rated power | Rated current | Speed | Efficiency | Power factor | Max. torque  | Start torque | Start current | GD <sup>2</sup>   | Weight | Lubrication period |
|-----------|-------------|---------------|-------|------------|--------------|--------------|--------------|---------------|-------------------|--------|--------------------|
|           |             |               |       |            |              | Rated torque | Rated torque | Rated current |                   |        |                    |
|           | kW          | A             | r/min | %          | COSΦ         |              |              |               | kg·m <sup>2</sup> | kg     | h                  |
| YKK3551-4 | 185         | 22.6          | 1485  | 92.8       | 0.85         | 1.8          | 0.7          | 6.5           | 14                | 1910   | 8000               |
| YKK3552-4 | 200         | 24.4          |       | 92.9       |              |              |              |               | 15                | 1950   |                    |
| YKK3553-4 | 220         | 26.8          |       | 93         |              |              |              |               | 16                | 1990   |                    |
| YKK3554-4 | 250         | 30.4          |       | 93.1       |              |              |              |               | 17                | 2050   |                    |
| YKK4002-4 | 280         | 33.6          |       | 0.86       | 26           |              |              |               | 2500              |        |                    |
| YKK4003-4 | 315         | 37.8          |       |            | 26           |              |              |               | 2540              |        |                    |
| YKK4004-4 | 355         | 42.5          |       |            | 28.4         |              |              |               | 2620              |        |                    |
| YKK4005-4 | 400         | 47.8          |       |            | 30           |              |              |               | 2690              |        |                    |
| YKK4006-4 | 450         | 53.6          |       |            | 33           |              |              |               | 2770              |        |                    |
| YKK4502-4 | 500         | 60.0          | 50    |            | 3430         |              |              |               | 6000              |        |                    |
| YKK4503-4 | 560         | 67.0          | 53    |            | 3520         |              |              |               |                   |        |                    |
| YKK4504-4 | 630         | 75.0          | 1490  |            | 94.4         |              |              |               | 58                | 3640   | 4000               |
| YKK45-5-4 | 710         | 84.0          |       | 94.6       | 68           |              |              |               | 3860              |        |                    |
| YKK5001-4 | 800         | 93.3          |       | 94.8       | 120          |              |              |               | 4610              |        |                    |
| YKK5002-4 | 900         | 104.9         |       | 94.9       | 120          |              |              |               | 4610              |        |                    |
| YKK5003-4 | 1000        | 116.4         | 0.87  | 95         | 140          |              |              |               | 4920              | 2000   |                    |
| YKK5004-4 | 1120        | 130.3         |       | 95.1       | 150          |              |              |               | 5070              |        |                    |
| YKK5601-4 | 1250        | 143.6         |       | 95.2       | 0.88         |              | 0.6          |               |                   |        |                    |
| YKK5602-4 | 1400        | 160.6         |       | 95.3       |              |              |              |               |                   |        |                    |
| YKK5603-4 | 1600        | 183.4         |       | 95.4       |              |              |              |               |                   |        |                    |
| YKK6301-4 | 1800        | 206.1         |       | 95.5       |              |              |              |               |                   |        |                    |
| YKK6302-4 | 2000        | 228.8         |       | 95.6       |              |              |              |               |                   |        |                    |
| YKK6303-4 | 2240        | 255.9         |       | 95.7       |              |              |              |               |                   |        |                    |

| Type      | Rated power | Rated current | Speed | Efficiency | Power factor | Max. torque | Start torque | Start current | GD <sup>2</sup>   | Weight | Lubrication period |  |
|-----------|-------------|---------------|-------|------------|--------------|-------------|--------------|---------------|-------------------|--------|--------------------|--|
|           |             |               |       |            |              |             |              |               |                   |        |                    |  |
|           | kW          | A             | r/min | %          | COSΦ         |             |              |               | kg·m <sup>2</sup> | kg     | h                  |  |
| YKK4001-6 | 185         | 23.5          |       | 92.4       | 0.82         | 1.8         | 0.7          | 6             | 40                | 2450   | 8000               |  |
| YKK4002-6 | 200         | 25.3          |       | 92.6       |              |             |              |               | 40                | 2500   |                    |  |
| YKK4003-6 | 220         | 27.8          |       | 92.8       |              |             |              |               | 42                | 2560   |                    |  |
| YKK4004-6 | 250         | 31.5          |       | 93         |              |             |              |               | 46                | 2580   |                    |  |
| YKK4005-6 | 280         | 35.2          |       | 93.3       |              |             |              |               | 50                | 2730   |                    |  |
| YKK4006-6 | 315         | 39.5          |       | 93.5       |              |             |              |               | 53                | 2820   |                    |  |
| YKK4502-6 | 355         | 44.0          | 990   | 93.7       | 0.83         |             |              |               | 71                | 3390   | 6000               |  |
| YKK4503-6 | 400         | 49.0          |       | 93.8       |              |             |              |               | 77                | 3480   |                    |  |
| YKK4504-6 | 450         | 55.0          |       | 94.1       |              |             |              |               | 77                | 3480   |                    |  |
| YKK4505-6 | 500         | 62.0          |       | 94.3       |              |             |              |               | 84                | 2580   |                    |  |
| YKK5001-6 | 560         | 68.0          |       | 94.4       |              |             |              |               | 157               | 4350   |                    |  |
| YKK5002-6 | 630         | 76.4          |       | 94.5       |              |             |              |               | 157               | 4360   |                    |  |
| YKK5003-6 | 710         | 85.8          |       | 94.8       | 171          |             |              |               | 4500              |        |                    |  |
| YKK5004-6 | 800         | 96.6          |       | 94.9       | 0.84         |             |              |               | 200               | 4780   | 4000               |  |
| YKK5601-6 | 900         | 107.3         |       | 95         |              |             |              | 0.85          | 6.5               |        |                    |  |
| YKK5602-6 | 1000        | 119.0         |       | 95.1       |              |             |              |               |                   |        |                    |  |
| YKK5603-6 | 1120        | 133.2         |       | 95.2       |              |             |              |               |                   |        |                    |  |
| YKK6301-6 | 1250        | 146.8         |       | 95.3       |              |             |              | 0.86          | 6.5               |        |                    |  |
| YKK6302-6 | 1400        | 164.2         |       | 95.4       |              |             |              |               |                   |        |                    |  |
| YKK6303-6 | 1600        | 187.5         |       | 95.5       |              |             |              |               |                   |        |                    |  |

| Type      | Rated power | Rated current | Speed | Efficiency | Power factor | Max. torque  | Start torque | Start current | GD <sup>2</sup> | Weight | Lubrication period |  |
|-----------|-------------|---------------|-------|------------|--------------|--------------|--------------|---------------|-----------------|--------|--------------------|--|
|           |             |               |       |            |              | Rated torque | Rated torque | Rated current |                 |        |                    |  |
|           | kW          | A             |       |            | r/min        | %            | COSΦ         |               |                 |        |                    |  |
| YKK4004-8 | 185         | 24.7          | 740   | 92.5       | 0.78         | 1.8          | 0.8          | 5.5           | 50              | 2620   | 8000               |  |
| YKK4005-8 | 200         | 26.6          |       | 92.7       |              |              |              |               | 53              | 2700   |                    |  |
| YKK4006-8 | 220         | 29.2          |       | 92.9       |              |              |              |               | 58              | 2790   |                    |  |
| YKK4502-8 | 250         | 33.0          |       | 0.79       | 93           |              |              |               | 77              | 3460   |                    |  |
| YKK4503-8 | 280         | 37.0          |       |            | 93.2         |              |              |               | 84              | 3570   |                    |  |
| YKK4504-8 | 315         | 41.0          |       |            | 93.4         |              |              |               | 91              | 3690   |                    |  |
| YKK4505-8 | 355         | 46.0          |       |            | 93.5         |              |              |               | 98              | 3800   |                    |  |
| YKK5001-8 | 400         | 51.3          | 745   | 93.7       | 0.8          |              |              |               | 146             | 4240   |                    |  |
| YKK5002-8 | 450         | 57.7          |       | 93.8       |              |              |              |               | 146             | 4240   |                    |  |
| YKK5003-8 | 500         | 63.8          | 740   | 94.2       |              |              |              |               | 171             | 4490   |                    |  |
| YKK5004-8 | 560         | 71.4          |       | 94.4       |              |              |              |               | 186             | 4630   |                    |  |
| YKK5601-8 | 630         | 78.2          |       | 94.5       | 0.82         |              |              |               |                 |        |                    |  |
| YKK5602-8 | 710         | 88.1          |       | 94.6       |              |              |              |               |                 |        |                    |  |
| YKK5603-8 | 800         | 99.1          |       | 94.7       |              |              |              |               |                 |        |                    |  |
| YKK6301-8 | 900         | 108.8         |       | 94.8       | 0.84         |              | 0.7          | 6             |                 |        |                    |  |
| YKK6302-8 | 1000        | 120.7         |       | 94.9       |              |              |              |               |                 |        |                    |  |
| YKK6303-8 | 1120        | 135.1         |       | 95         |              |              |              |               |                 |        |                    |  |
| YKK6304-8 | 1250        | 150.6         |       | 95.1       |              |              |              |               |                 |        |                    |  |

| Type       | Rated power | Rated current | Speed | Efficiency | Power factor | Max. torque | Start torque | Start current | GD <sup>2</sup> | Weight | Lubrication period |  |
|------------|-------------|---------------|-------|------------|--------------|-------------|--------------|---------------|-----------------|--------|--------------------|--|
|            |             |               |       |            |              |             |              |               |                 |        |                    |  |
|            | kW          | A             |       |            | r/min        | %           | COSΦ         |               |                 |        |                    |  |
| YKK4501-10 | 1850        | 26.0          | 595   | 91.7       | 0.75         | 1.8         | 0.8          | 5.5           | 103             | 3280   | 8000               |  |
| YKK4502-10 | 200         | 28.0          |       | 91.9       |              |             |              |               | 110             | 3370   |                    |  |
| YKK4503-10 | 220         | 31.0          |       | 92.1       |              |             |              |               | 120             | 3460   |                    |  |
| YKK4504-10 | 250         | 35.0          |       | 92.3       |              |             |              |               | 130             | 3570   |                    |  |
| YKK4505-10 | 280         | 39.0          |       | 92.5       |              |             |              |               | 140             | 3690   |                    |  |
| YKK5001-10 | 315         | 43.0          |       | 92.8       | 190          |             |              |               | 4170            |        |                    |  |
| YKK5002-10 | 355         | 48.3          |       | 0.76       | 204          |             |              |               | 4280            |        |                    |  |
| YKK5003-10 | 400         | 54.3          |       |            | 223          |             |              |               | 4410            |        |                    |  |
| YKK5004-10 | 450         | 61.0          |       |            | 242          |             |              |               | 4540            |        |                    |  |
| YKK5601-10 | 500         | 65.9          |       |            | 93.6         |             |              |               |                 |        |                    |  |
| YKK5602-10 | 560         | 73.7          |       | 0.78       | 93.7         |             |              |               |                 |        |                    |  |
| YKK5603-10 | 630         | 82.9          |       |            | 93.8         |             |              |               |                 |        |                    |  |
| YKK5604-10 | 710         | 93.2          |       |            | 94           |             |              |               |                 |        |                    |  |
| YKK6301-10 | 800         | 102.1         |       |            | 94.2         |             | 0.8          |               |                 |        |                    |  |
| YKK6302-10 | 900         | 114.8         |       | 94.3       |              |             |              |               |                 |        |                    |  |
| YKK6303-10 | 1000        | 127.4         |       | 94.4       |              |             |              |               |                 |        |                    |  |
| YKK6304-10 | 1120        | 142.4         |       | 94.6       |              |             |              |               |                 |        |                    |  |

| Type       | Rated power | Rated current | Speed | Efficiency | Power factor | Max. torque | Start torque | Start current | GD <sup>2</sup> | Weight | Lubrication period |
|------------|-------------|---------------|-------|------------|--------------|-------------|--------------|---------------|-----------------|--------|--------------------|
|            |             |               |       |            |              |             |              |               |                 |        |                    |
|            | kW          | A             |       |            |              | r/min       | %            | COSΦ          |                 |        |                    |
| YKK4504-12 | 185         | 28.0          | 495   | 91.8       | 0.7          | 1.8         | 0.8          | 5.5           | 130             | 3530   | 8000               |
| YKK4505-12 | 200         | 30.0          |       | 92         |              |             |              |               | 140             | 3620   |                    |
| YKK5001-12 | 220         | 31.9          |       | 92.2       | 204          |             |              |               | 4210            |        |                    |
| YKK5002-12 | 250         | 36.1          |       | 92.5       | 223          |             |              |               | 4350            |        |                    |
| YKK5003-12 | 280         | 40.4          |       | 92.7       | 242          |             |              |               | 4490            |        |                    |
| YKK5004-12 | 315         | 45.4          |       | 92.8       | 260          |             |              |               | 4630            |        |                    |
| YKK5601-12 | 355         | 49.6          |       | 0.74       | 93           |             |              |               |                 |        |                    |
| YKK5602-12 | 400         | 55.7          |       |            | 93.3         |             |              |               |                 |        |                    |
| YKK5603-12 | 450         | 62.7          |       |            | 93.4         |             |              | 6500          |                 |        |                    |
| YKK5604-12 | 500         | 69.4          |       |            | 93.7         |             |              |               |                 |        |                    |
| YKK6301-12 | 560         | 75.6          |       | 0.76       | 93.8         |             |              |               |                 |        |                    |
| YKK6302-12 | 630         | 84.9          |       |            | 93.9         |             |              |               |                 |        |                    |
| YKK6303-12 | 710         | 95.6          |       |            | 94           |             |              |               |                 |        |                    |
| YKK6304-12 | 800         | 107.5         |       |            | 94.2         |             |              |               |                 |        |                    |