

# PERMANENT MAGNETIC SYNCHRONOUS MOTOR

## 永磁同步电动机



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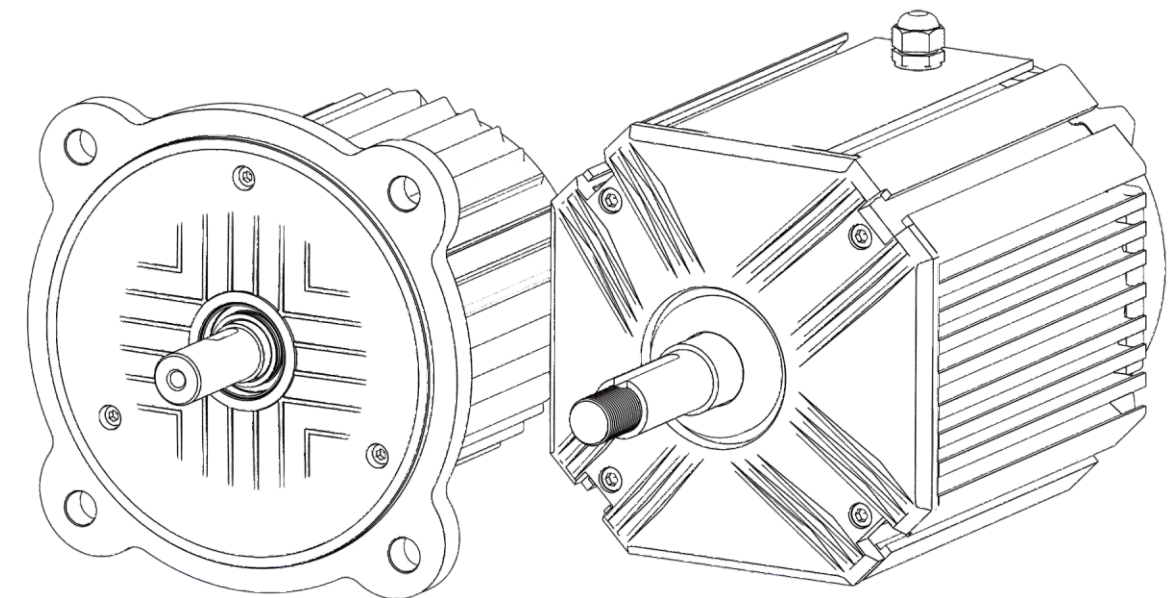
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**品質四福 動力無限**  
Quality Sifu Unlimited Power

# STPM系列变频调速永磁同步电动机 (IE4、IE5)

STPM Series Variable Frequency and Variable Speed permanent Magnet Synchronous motor (Ie4, IE5)



## 产品概述 / Product Overview

方远四福研制生产的STPM系列变频调速永磁同步电动机采用高矫顽力、高剩磁的稀土永磁材料制作而成的内置式永磁体，可在保证高效的同时，提供更高的功率密度，在过载情况下，电机同样能展现过硬的电气特性。STPM系列电机实现了降机座，同时其输出功率可保证不变，电机所需的安装空间将大大节省。该系列产品在各转速下均可输出恒转矩，在低转速下其效率和功率因数大幅优于异步感应电机。STPM系列变频调速永磁同步电动机已实现国家1级、2级能效 (IE5、IE4)。STPM系列永磁电机可配备国内外各知名同步矢量型变频器，可应用于潮湿、粉尘和振动场合。变频器安装灵活，广泛应用于水泵、风机等通用设备，以及对防护等级有较高要求的电气传动场合。本产品具备多转速运作、低速精确控制、低噪音、结构紧凑等一系列显著的技术优势。

STPM series variable frequency and variable speed permanent magnet synchronous motors are widely used in water pumps, motors and other general equipment.

## 主要应用 / Main application

通用工业设备、冷却塔、袋滤器、造纸机械、纺织机械、传送工具、泵类、挤压机、空压机、风机等场合，能基本上替代各种使用场合的感应电动机和直流电机。

General industrial equipment, cooling towers, bag filters, papermaking machinery, textile machinery, conveying tools, pumps, extruders, air compressors, fans and other occasions , this motor can basically replace induction motors and DC motors in various applications.

## 产品特点 / Product Characteristics

- 变频调速恒转矩
- 无转子损耗，低温升，高效，可实现一级、二级能效；
- 过载情况下，效率性能同样表现卓越；
- 高转矩密度，高功率密度，高功率因数；
- 无感控制 (无需使用编码器) ；
- 无滑差，同步转速，实现精确的转速控制；
- 在弱磁调速状态下保持功率恒定；
- 过载能力强、特性硬；
- 变速范围广，支持电机直驱。
- Variable frequency speed and constant torque;
- No rotor loss, low temperature rise, high energy efficiency, motor can reach IE4 or IE5;
- In the case of overload, the efficiency performance is also excellent;
- High torque density, high power density, high power factor;
- Sensorless control (no need to use encoder)
- No slip, synchronous speed, realizing precise speed control;
- Keep the power constant under the condition of weak magnetic speed regulation;
- Strong overload capacity;
- Wide speed range, and support motor Direct-driven.

## 主要技术参数 / Main Technical Parameters

- 机座:71-355
- 功率范围:0.55-400KW (可定制)
- 额定转速:3000/1500/1000/750 r/min (可定制)
- 防护等级:IP55
- 绝缘等级:F 级
- 温升等级:B 级
- 连续工作制:S1
- 电压:380Vac
- 运行环境温度:-20℃ ~40℃
- 运行海拔:≤ 1000 米
- 按需求可定制IE5电机
- Frame size: 71-355
- Power range 0.55-400KW (customizable)
- Rated speed:3000/1500/1000/750 r/min (customizable)
- Protection grade: IP55
- Insulation Class :F
- Temperature rise :B
- Duty type :S1
- Rated Voltage: 380Vac
- Ambient temperature: -20℃ ~40℃
- Altitude :up to 1000m above sea level
- IE5 motor is customizable

## Technical Data IE4、IE5

### STPM Series Variable Frequency and Variable Speed Permanent Magnet Synchronous Motor

| 型 号<br>Type     | 极 数<br>Pole | 额定电压<br>Voltage<br>(V) | 额定功率<br>Out Put<br>(kW) | 额定转速<br>Rated<br>Speed<br>(R/min) | 频 率<br>Frequency<br>(Hz) | 额定转矩<br>Rated<br>Torque<br>(N.m) | 峰值转矩<br>Peak<br>Torque<br>(N.m) | 额定电流<br>Current<br>(A) | 效 率<br>Efficiency<br>(%) | 防护等级<br>IP | 冷却方式<br>Cooling<br>Mode |
|-----------------|-------------|------------------------|-------------------------|-----------------------------------|--------------------------|----------------------------------|---------------------------------|------------------------|--------------------------|------------|-------------------------|
| STPM80S30-0.55  | 8           | 380                    | 0.55                    | 3000                              | 200                      | 1.8                              | 5.3                             | 1.0                    | 87.3                     | IP55       | IC411                   |
| STPM80S30-0.75  | 8           | 380                    | 0.75                    | 3000                              | 200                      | 2.4                              | 7.2                             | 1.4                    | 88.6                     | IP55       | IC411                   |
| STPM80S30-1.1   | 8           | 380                    | 1.1                     | 3000                              | 200                      | 3.5                              | 10.5                            | 2.0                    | 89.8                     | IP55       | IC411                   |
| STPM80S30-1.5   | 8           | 380                    | 1.5                     | 3000                              | 200                      | 4.8                              | 14.3                            | 2.7                    | 90.9                     | IP55       | IC411                   |
| STPM80L30-2.2   | 8           | 380                    | 2.2                     | 3000                              | 200                      | 7.0                              | 21.0                            | 4.0                    | 91.8                     | IP55       | IC411                   |
| STPM90S30-1.5   | 8           | 380                    | 1.5                     | 3000                              | 200                      | 4.8                              | 14.3                            | 2.7                    | 90.9                     | IP55       | IC411                   |
| STPM90S30-2.2   | 8           | 380                    | 2.2                     | 3000                              | 200                      | 7.0                              | 21.0                            | 4.0                    | 91.8                     | IP55       | IC411                   |
| STPM90S30-3.0   | 8           | 380                    | 3.0                     | 3000                              | 200                      | 9.5                              | 28.6                            | 5.3                    | 92.6                     | IP55       | IC411                   |
| STPM90L30-4.0   | 8           | 380                    | 4.0                     | 3000                              | 200                      | 12.7                             | 38.2                            | 7.1                    | 93.3                     | IP55       | IC411                   |
| STPM90L30-5.5   | 8           | 380                    | 5.5                     | 3000                              | 200                      | 17.5                             | 52.5                            | 9.7                    | 94.0                     | IP55       | IC411                   |
| STPM112M30-5.5  | 6           | 380                    | 5.5                     | 3000                              | 150                      | 17.5                             | 52.5                            | 9.7                    | 94.0                     | IP55       | IC411                   |
| STPM112M30-7.5  | 6           | 380                    | 7.5                     | 3000                              | 150                      | 23.9                             | 71.6                            | 13.1                   | 94.5                     | IP55       | IC411                   |
| STPM112M30-11   | 6           | 380                    | 11                      | 3000                              | 150                      | 35.0                             | 105.0                           | 19.1                   | 95.0                     | IP55       | IC411                   |
| STPM112M30-15   | 6           | 380                    | 15                      | 3000                              | 150                      | 47.7                             | 143.2                           | 26.0                   | 95.3                     | IP55       | IC411                   |
| STPM132M30-15   | 6           | 380                    | 15                      | 3000                              | 150                      | 47.7                             | 143.2                           | 26.0                   | 95.3                     | IP55       | IC411                   |
| STPM132M30-18.5 | 6           | 380                    | 18.5                    | 3000                              | 150                      | 58.9                             | 176.7                           | 31.9                   | 95.6                     | IP55       | IC411                   |
| STPM132M30-22   | 6           | 380                    | 22                      | 3000                              | 150                      | 70.0                             | 210.1                           | 37.8                   | 95.9                     | IP55       | IC411                   |
| STPM132M30-30   | 6           | 380                    | 30                      | 3000                              | 150                      | 95.5                             | 286.5                           | 51.5                   | 96.1                     | IP55       | IC411                   |
| STPM160M30-30   | 8           | 380                    | 30                      | 3000                              | 200                      | 95.5                             | 286.5                           | 51.5                   | 96.1                     | IP55       | IC411                   |
| STPM160M30-37   | 8           | 380                    | 37                      | 3000                              | 200                      | 117.8                            | 353.3                           | 63.4                   | 96.3                     | IP55       | IC411                   |
| STPM180M30-37   | 8           | 380                    | 37                      | 3000                              | 200                      | 117.8                            | 353.3                           | 63.4                   | 96.3                     | IP55       | IC411                   |
| STPM180M30-45   | 8           | 380                    | 45                      | 3000                              | 200                      | 143.2                            | 429.7                           | 75.9                   | 96.4                     | IP55       | IC411                   |
| STPM180L30-55   | 8           | 380                    | 55                      | 3000                              | 200                      | 175.1                            | 525.2                           | 92.7                   | 96.5                     | IP55       | IC411                   |
| STPM200L30-55   | 8           | 380                    | 55                      | 3000                              | 200                      | 175.1                            | 525.2                           | 92.7                   | 96.5                     | IP55       | IC411                   |
| STPM200L30-75   | 8           | 380                    | 75                      | 3000                              | 200                      | 238.7                            | 716.2                           | 126.3                  | 96.6                     | IP55       | IC411                   |
| STPM225M30-75   | 8           | 380                    | 75                      | 3000                              | 200                      | 238.7                            | 716.2                           | 126.3                  | 96.6                     | IP55       | IC411                   |
| STPM225M30-90   | 8           | 380                    | 90                      | 3000                              | 200                      | 286.5                            | 859.4                           | 149.3                  | 96.7                     | IP55       | IC411                   |
| STPM225M30-110  | 8           | 380                    | 110                     | 3000                              | 200                      | 350.1                            | 1050.4                          | 182.2                  | 96.8                     | IP55       | IC411                   |
| STPM250M30-110  | 8           | 380                    | 110                     | 3000                              | 200                      | 350.1                            | 1050.4                          | 182.2                  | 96.8                     | IP55       | IC411                   |
| STPM250M30-132  | 8           | 380                    | 132                     | 3000                              | 200                      | 420.2                            | 1260.5                          | 218.5                  | 96.9                     | IP55       | IC411                   |
| STPM280M30-132  | 8           | 380                    | 132                     | 3000                              | 200                      | 420.2                            | 1260.5                          | 218.5                  | 96.9                     | IP55       | IC416                   |
| STPM280M30-160  | 8           | 380                    | 160                     | 3000                              | 200                      | 509.3                            | 1527.8                          | 264.5                  | 97.0                     | IP55       | IC416                   |
| STPM280M30-200  | 8           | 380                    | 200                     | 3000                              | 200                      | 636.6                            | 1909.8                          | 330.3                  | 97.1                     | IP55       | IC416                   |
| STPM315S30-132  | 8           | 380                    | 132                     | 3000                              | 200                      | 420.2                            | 1260.5                          | 218.5                  | 96.9                     | IP55       | IC416                   |
| STPM315S30-160  | 8           | 380                    | 160                     | 3000                              | 200                      | 509.3                            | 1527.8                          | 264.5                  | 97.0                     | IP55       | IC416                   |
| STPM315S30-200  | 8           | 380                    | 200                     | 3000                              | 200                      | 636.6                            | 1909.8                          | 330.3                  | 97.1                     | IP55       | IC416                   |
| STPM315M30-250  | 8           | 380                    | 250                     | 3000                              | 200                      | 795.8                            | 2387.3                          | 412.5                  | 97.2                     | IP55       | IC416                   |
| STPM315M30-315  | 8           | 380                    | 315                     | 3000                              | 200                      | 1002.6                           | 3007.9                          | 519.2                  | 97.3                     | IP55       | IC416                   |
| STPM315L30-400  | 8           | 380                    | 400                     | 3000                              | 200                      | 1273.2                           | 3819.6                          | 658.6                  | 97.4                     | IP55       | IC416                   |

Technical Data IE4、IE5

STPM Series Variable Frequency and Variable Speed Permanent Magnet Synchronous Motor

| 型 号<br>Type     | 极 数<br>Pole | 额定电压<br>Voltage<br>(V) | 额定功率<br>Out Put<br>(kW) | 额定转速<br>Rated<br>Speed<br>(R/min) | 频 率<br>Frequency<br>(Hz) | 额定转矩<br>Rated<br>Torque<br>(N.m) | 峰值转矩<br>Peak<br>Torque<br>(N.m) | 额定电流<br>Current<br>(A) | 效 率<br>Efficiency<br>(%) | 防护等级<br>IP | 冷却方式<br>Cooling<br>Mode |
|-----------------|-------------|------------------------|-------------------------|-----------------------------------|--------------------------|----------------------------------|---------------------------------|------------------------|--------------------------|------------|-------------------------|
| STPM80S30-0.55  | 8           | 380                    | 0.55                    | 3000                              | 200                      | 1.8                              | 5.3                             | 1.0                    | 87.3                     | IP55       | IC411                   |
| STPM80S30-0.75  | 8           | 380                    | 0.75                    | 3000                              | 200                      | 2.4                              | 7.2                             | 1.4                    | 88.6                     | IP55       | IC411                   |
| STPM80S30-1.1   | 8           | 380                    | 1.1                     | 3000                              | 200                      | 3.5                              | 10.5                            | 2.0                    | 89.8                     | IP55       | IC411                   |
| STPM80S30-1.5   | 8           | 380                    | 1.5                     | 3000                              | 200                      | 4.8                              | 14.3                            | 2.7                    | 90.9                     | IP55       | IC411                   |
| STPM80L30-2.2   | 8           | 380                    | 2.2                     | 3000                              | 200                      | 7.0                              | 21.0                            | 4.0                    | 91.8                     | IP55       | IC411                   |
| STPM90S30-1.5   | 8           | 380                    | 1.5                     | 3000                              | 200                      | 4.8                              | 14.3                            | 2.7                    | 90.9                     | IP55       | IC411                   |
| STPM90S30-2.2   | 8           | 380                    | 2.2                     | 3000                              | 200                      | 7.0                              | 21.0                            | 4.0                    | 91.8                     | IP55       | IC411                   |
| STPM90S30-3.0   | 8           | 380                    | 3.0                     | 3000                              | 200                      | 9.5                              | 28.6                            | 5.3                    | 92.6                     | IP55       | IC411                   |
| STPM90L30-4.0   | 8           | 380                    | 4.0                     | 3000                              | 200                      | 12.7                             | 38.2                            | 7.1                    | 93.3                     | IP55       | IC411                   |
| STPM90L30-5.5   | 8           | 380                    | 5.5                     | 3000                              | 200                      | 17.5                             | 52.5                            | 9.7                    | 94.0                     | IP55       | IC411                   |
| STPM112M30-5.5  | 6           | 380                    | 5.5                     | 3000                              | 150                      | 17.5                             | 52.5                            | 9.7                    | 94.0                     | IP55       | IC411                   |
| STPM112M30-7.5  | 6           | 380                    | 7.5                     | 3000                              | 150                      | 23.9                             | 71.6                            | 13.1                   | 94.5                     | IP55       | IC411                   |
| STPM112M30-11   | 6           | 380                    | 11                      | 3000                              | 150                      | 35.0                             | 105.0                           | 19.1                   | 95.0                     | IP55       | IC411                   |
| STPM112M30-15   | 6           | 380                    | 15                      | 3000                              | 150                      | 47.7                             | 143.2                           | 26.0                   | 95.3                     | IP55       | IC411                   |
| STPM132M30-15   | 6           | 380                    | 15                      | 3000                              | 150                      | 47.7                             | 143.2                           | 26.0                   | 95.3                     | IP55       | IC411                   |
| STPM132M30-18.5 | 6           | 380                    | 18.5                    | 3000                              | 150                      | 58.9                             | 176.7                           | 31.9                   | 95.6                     | IP55       | IC411                   |
| STPM132M30-22   | 6           | 380                    | 22                      | 3000                              | 150                      | 70.0                             | 210.1                           | 37.8                   | 95.9                     | IP55       | IC411                   |
| STPM132M30-30   | 6           | 380                    | 30                      | 3000                              | 150                      | 95.5                             | 286.5                           | 51.5                   | 96.1                     | IP55       | IC411                   |
| STPM160M30-30   | 8           | 380                    | 30                      | 3000                              | 200                      | 95.5                             | 286.5                           | 51.5                   | 96.1                     | IP55       | IC411                   |
| STPM160M30-37   | 8           | 380                    | 37                      | 3000                              | 200                      | 117.8                            | 353.3                           | 63.4                   | 96.3                     | IP55       | IC411                   |
| STPM180M30-37   | 8           | 380                    | 37                      | 3000                              | 200                      | 117.8                            | 353.3                           | 63.4                   | 96.3                     | IP55       | IC411                   |
| STPM180M30-45   | 8           | 380                    | 45                      | 3000                              | 200                      | 143.2                            | 429.7                           | 75.9                   | 96.4                     | IP55       | IC411                   |
| STPM180L30-55   | 8           | 380                    | 55                      | 3000                              | 200                      | 175.1                            | 525.2                           | 92.7                   | 96.5                     | IP55       | IC411                   |
| STPM200L30-55   | 8           | 380                    | 55                      | 3000                              | 200                      | 175.1                            | 525.2                           | 92.7                   | 96.5                     | IP55       | IC411                   |
| STPM200L30-75   | 8           | 380                    | 75                      | 3000                              | 200                      | 238.7                            | 716.2                           | 126.3                  | 96.6                     | IP55       | IC411                   |
| STPM225M30-75   | 8           | 380                    | 75                      | 3000                              | 200                      | 238.7                            | 716.2                           | 126.3                  | 96.6                     | IP55       | IC411                   |
| STPM225M30-90   | 8           | 380                    | 90                      | 3000                              | 200                      | 286.5                            | 859.4                           | 149.3                  | 96.7                     | IP55       | IC411                   |
| STPM225M30-110  | 8           | 380                    | 110                     | 3000                              | 200                      | 350.1                            | 1050.4                          | 182.2                  | 96.8                     | IP55       | IC411                   |
| STPM250M30-110  | 8           | 380                    | 110                     | 3000                              | 200                      | 350.1                            | 1050.4                          | 182.2                  | 96.8                     | IP55       | IC411                   |
| STPM250M30-132  | 8           | 380                    | 132                     | 3000                              | 200                      | 420.2                            | 1260.5                          | 218.5                  | 96.9                     | IP55       | IC411                   |
| STPM280M30-132  | 8           | 380                    | 132                     | 3000                              | 200                      | 420.2                            | 1260.5                          | 218.5                  | 96.9                     | IP55       | IC416                   |
| STPM280M30-160  | 8           | 380                    | 160                     | 3000                              | 200                      | 509.3                            | 1527.8                          | 264.5                  | 97.0                     | IP55       | IC416                   |
| STPM280M30-200  | 8           | 380                    | 200                     | 3000                              | 200                      | 636.6                            | 1909.8                          | 330.3                  | 97.1                     | IP55       | IC416                   |
| STPM315S30-132  | 8           | 380                    | 132                     | 3000                              | 200                      | 420.2                            | 1260.5                          | 218.5                  | 96.9                     | IP55       | IC416                   |
| STPM315S30-160  | 8           | 380                    | 160                     | 3000                              | 200                      | 509.3                            | 1527.8                          | 264.5                  | 97.0                     | IP55       | IC416                   |
| STPM315S30-200  | 8           | 380                    | 200                     | 3000                              | 200                      | 636.6                            | 1909.8                          | 330.3                  | 97.1                     | IP55       | IC416                   |
| STPM315M30-250  | 8           | 380                    | 250                     | 3000                              | 200                      | 795.8                            | 2387.3                          | 412.5                  | 97.2                     | IP55       | IC416                   |
| STPM315M30-315  | 8           | 380                    | 315                     | 3000                              | 200                      | 1002.6                           | 3007.9                          | 519.2                  | 97.3                     | IP55       | IC416                   |
| STPM315L30-400  | 8           | 380                    | 400                     | 3000                              | 200                      | 1273.2                           | 3819.6                          | 658.6                  | 97.4                     | IP55       | IC416                   |

Technical Data IE4、IE5

STPM Series Variable Frequency and Variable Speed Permanent Magnet Synchronous Motor

| 型 号<br>Type     | 极 数<br>Pole | 额定电压<br>Voltage<br>(V) | 额定功率<br>Out Put<br>(kW) | 额定转速<br>Rated<br>Speed<br>(R/min) | 频 率<br>Frequency<br>(Hz) | 额定转矩<br>Rated<br>Torque<br>(N.m) | 峰值转矩<br>Peak<br>Torque<br>(N.m) | 额定电流<br>Current<br>(A) | 效 率<br>Efficiency<br>(%) | 防护等级<br>IP | 冷却方式<br>Cooling<br>Mode |
|-----------------|-------------|------------------------|-------------------------|-----------------------------------|--------------------------|----------------------------------|---------------------------------|------------------------|--------------------------|------------|-------------------------|
| STPM80S15-0.55  | 8           | 380                    | 0.55                    | 1500                              | 100                      | 3.5                              | 10.5                            | 1.1                    | 85.6                     | IP55       | IC411                   |
| STPM80S15-0.75  | 8           | 380                    | 0.75                    | 1500                              | 100                      | 4.8                              | 14.3                            | 1.4                    | 86.5                     | IP55       | IC411                   |
| STPM80L15-1.1   | 8           | 380                    | 1.1                     | 1500                              | 100                      | 7.0                              | 21.0                            | 2.1                    | 87.4                     | IP55       | IC411                   |
| STPM80L15-1.5   | 8           | 380                    | 1.5                     | 1500                              | 100                      | 9.5                              | 28.6                            | 2.8                    | 88.1                     | IP55       | IC411                   |
| STPM90S15-1.1   | 10          | 380                    | 1.1                     | 1500                              | 125                      | 7.0                              | 21.0                            | 2.1                    | 87.4                     | IP55       | IC411                   |
| STPM90S15-1.5   | 10          | 380                    | 1.5                     | 1500                              | 125                      | 9.5                              | 28.6                            | 2.8                    | 88.1                     | IP55       | IC411                   |
| STPM90S15-2.2   | 10          | 380                    | 2.2                     | 1500                              | 125                      | 14.0                             | 42.0                            | 4.0                    | 89.7                     | IP55       | IC411                   |
| STPM90S15-3.0   | 10          | 380                    | 3.0                     | 1500                              | 125                      | 19.1                             | 57.3                            | 5.5                    | 90.3                     | IP55       | IC411                   |
| STPM90L15-4.0   | 10          | 380                    | 4.0                     | 1500                              | 125                      | 25.5                             | 76.4                            | 7.3                    | 90.9                     | IP55       | IC411                   |
| STPM112M15-4.0  | 6           | 380                    | 4.0                     | 1500                              | 75                       | 25.5                             | 76.4                            | 7.3                    | 90.9                     | IP55       | IC411                   |
| STPM112M15-5.5  | 6           | 380                    | 5.5                     | 1500                              | 75                       | 35.0                             | 105.0                           | 9.9                    | 92.1                     | IP55       | IC411                   |
| STPM112M15-7.5  | 6           | 380                    | 7.5                     | 1500                              | 75                       | 47.7                             | 143.2                           | 13.4                   | 92.6                     | IP55       | IC411                   |
| STPM112M15-11   | 6           | 380                    | 11                      | 1500                              | 75                       | 70.0                             | 210.1                           | 19.4                   | 93.6                     | IP55       | IC411                   |
| STPM132M15-11   | 6           | 380                    | 11                      | 1500                              | 75                       | 70.0                             | 210.1                           | 19.4                   | 93.6                     | IP55       | IC411                   |
| STPM132M15-15   | 6           | 380                    | 15                      | 1500                              | 75                       | 95.5                             | 286.5                           | 26.3                   | 94.0                     | IP55       | IC411                   |
| STPM132M15-18.5 | 6           | 380                    | 18.5                    | 1500                              | 75                       | 117.8                            | 353.3                           | 32.4                   | 94.3                     | IP55       | IC411                   |
| STPM160M15-18.5 | 8           | 380                    | 18.5                    | 1500                              | 100                      | 117.8                            | 353.3                           | 32.4                   | 94.3                     | IP55       | IC411                   |
| STPM160M15-22   | 8           | 380                    | 22                      | 1500                              | 100                      | 140.1                            | 420.2                           | 38.3                   | 94.7                     | IP55       | IC411                   |
| STPM160M15-30   | 8           | 380                    | 30                      | 1500                              | 100                      | 191.0                            | 572.9                           | 52.1                   | 95.0                     | IP55       | IC411                   |
| STPM180M15-30   | 8           | 380                    | 30                      | 1500                              | 100                      | 191.0                            | 572.9                           | 52.1                   | 95.0                     | IP55       | IC411                   |
| STPM180L15-37   | 8           | 380                    | 37                      | 1500                              | 100                      | 235.5                            | 706.6                           | 64.0                   | 95.3                     | IP55       | IC411                   |
| STPM180L15-45   | 8           | 380                    | 45                      | 1500                              | 100                      | 286.5                            | 859.4                           | 76.6                   | 95.6                     | IP55       | IC411                   |
| STPM200L15-45   | 8           | 380                    | 45                      | 1500                              | 100                      | 286.5                            | 859.4                           | 76.6                   | 95.6                     | IP55       | IC411                   |
| STPM200L15-55   | 8           | 380                    | 55                      | 1500                              | 100                      | 350.1                            | 1050.4                          | 93.4                   | 95.8                     | IP55       | IC411                   |
| STPM225M15-55   | 8           | 380                    | 55                      | 1500                              | 100                      | 350.1                            | 1050.4                          | 93.4                   | 95.8                     | IP55       | IC411                   |
| STPM225M15-75   | 8           | 380                    | 75                      | 1500                              | 100                      | 477.5                            | 1432.4                          | 127.1                  | 96.0                     | IP55       | IC411                   |
| STPM250M15-75   | 8           | 380                    | 75                      | 1500                              | 100                      | 477.5                            | 1432.4                          | 127.1                  | 96.0                     | IP55       | IC411                   |
| STPM250M15-90   | 8           | 380                    | 90                      | 1500                              | 100                      | 572.9                            | 1718.8                          | 152.2                  | 96.2                     | IP55       | IC411                   |
| STPM280M15-90   | 8           | 380                    | 90                      | 1500                              | 100                      | 572.9                            | 1718.8                          | 152.2                  | 96.2                     | IP55       | IC416                   |
| STPM280M15-110  | 8           | 380                    | 110                     | 1500                              | 100                      | 700.3                            | 2100.8                          | 183.2                  | 96.3                     | IP55       | IC416                   |
| STPM280M15-132  | 8           | 380                    | 132                     | 1500                              | 100                      | 840.3                            | 2520.9                          | 219.6                  | 96.4                     | IP55       | IC416                   |
| STPM280M15-160  | 8           | 380                    | 160                     | 1500                              | 100                      | 1018.6                           | 3055.7                          | 265.9                  | 96.5                     | IP55       | IC416                   |
| STPM315M15-110  | 8           | 380                    | 110                     | 1500                              | 100                      | 700.3                            | 2100.8                          | 183.2                  | 96.3                     | IP55       | IC416                   |
| STPM315S15-132  | 8           | 380                    | 132                     | 1500                              | 100                      | 840.3                            | 2520.9                          | 219.6                  | 96.4                     | IP55       | IC416                   |
| STPM315S15-160  | 8           | 380                    | 160                     | 1500                              | 100                      | 1018.6                           | 3055.7                          | 265.9                  | 96.5                     | IP55       | IC416                   |
| STPM315S15-200  | 8           | 380                    | 200                     | 1500                              | 100                      | 1273.2                           | 3819.6                          | 332.0                  | 96.6                     | IP55       | IC416                   |
| STPM315L15-250  | 8           | 380                    | 250                     | 1500                              | 100                      | 1591.5                           | 4774.5                          | 414.6                  | 96.7                     | IP55       | IC416                   |
| STPM315L15-315  | 8           | 380                    | 315                     | 1500                              | 100                      | 2005.3                           | 6015.9                          | 521.9                  | 96.8                     | IP55       | IC416                   |



Technical Data IE4、IE5  
STPM Series Variable Frequency and Variable Speed Permanent Magnet Synchronous Motor

| 型 号<br>Type     | 极 数<br>Pole | 额定电压<br>Voltage<br>(V) | 额定功率<br>Out Put<br>(kW) | 额定转速<br>Rated<br>Speed<br>(R/min) | 频 率<br>Frequency<br>(Hz) | 额定转矩<br>Rated<br>Torque<br>(N.m) | 峰值转矩<br>Peak<br>Torque<br>(N.m) | 额定电流<br>Current<br>(A) | 效 率<br>Efficiency<br>(%) | 防护等级<br>IP | 冷却方式<br>Cooling<br>Mode |
|-----------------|-------------|------------------------|-------------------------|-----------------------------------|--------------------------|----------------------------------|---------------------------------|------------------------|--------------------------|------------|-------------------------|
| STPM80S10-0.55  | 8           | 380                    | 0.55                    | 1000                              | 66.7                     | 5.3                              | 15.8                            | 1.1                    | 85.9                     | IP55       | IC411                   |
| STPM80S10-0.75  | 8           | 380                    | 0.75                    | 1000                              | 66.7                     | 7.2                              | 21.5                            | 1.4                    | 87.4                     | IP55       | IC411                   |
| STPM80L10-1.1   | 8           | 380                    | 1.1                     | 1000                              | 66.7                     | 10.5                             | 31.5                            | 2.0                    | 88.7                     | IP55       | IC411                   |
| STPM90S10-0.75  | 10          | 380                    | 0.75                    | 1000                              | 83.3                     | 7.2                              | 21.5                            | 1.4                    | 87.4                     | IP55       | IC411                   |
| STPM90S10-1.1   | 10          | 380                    | 1.1                     | 1000                              | 83.3                     | 10.5                             | 31.5                            | 2.0                    | 88.7                     | IP55       | IC411                   |
| STPM90S10-1.5   | 10          | 380                    | 1.5                     | 1000                              | 83.3                     | 14.3                             | 43.0                            | 2.8                    | 89.9                     | IP55       | IC411                   |
| STPM90L10-2.2   | 10          | 380                    | 2.2                     | 1000                              | 83.3                     | 21.0                             | 63.0                            | 4.0                    | 90.9                     | IP55       | IC411                   |
| STPM112M10-2.2  | 6           | 380                    | 2.2                     | 1000                              | 50.0                     | 21.0                             | 63.0                            | 4.0                    | 90.9                     | IP55       | IC411                   |
| STPM112M10-3.0  | 6           | 380                    | 3.0                     | 1000                              | 50.0                     | 28.6                             | 85.9                            | 5.4                    | 91.8                     | IP55       | IC411                   |
| STPM112M10-4.0  | 6           | 380                    | 4.0                     | 1000                              | 50.0                     | 38.2                             | 114.6                           | 7.1                    | 92.7                     | IP55       | IC411                   |
| STPM112M10-5.5  | 6           | 380                    | 5.5                     | 1000                              | 50.0                     | 52.5                             | 157.6                           | 9.7                    | 93.4                     | IP55       | IC411                   |
| STPM132M10-5.5  | 6           | 380                    | 5.5                     | 1000                              | 50.0                     | 52.5                             | 157.6                           | 9.7                    | 93.4                     | IP55       | IC411                   |
| STPM132M10-7.5  | 6           | 380                    | 7.5                     | 1000                              | 50.0                     | 71.6                             | 214.9                           | 13.2                   | 94.0                     | IP55       | IC411                   |
| STPM132M10-11   | 6           | 380                    | 11                      | 1000                              | 50.0                     | 105.0                            | 315.1                           | 19.2                   | 94.5                     | IP55       | IC411                   |
| STPM160M10-11   | 8           | 380                    | 11                      | 1000                              | 66.7                     | 105.0                            | 315.1                           | 19.2                   | 94.5                     | IP55       | IC411                   |
| STPM160M10-15   | 8           | 380                    | 15                      | 1000                              | 66.7                     | 143.2                            | 429.7                           | 26.1                   | 94.9                     | IP55       | IC411                   |
| STPM180M10-15   | 8           | 380                    | 15                      | 1000                              | 66.7                     | 143.2                            | 429.7                           | 26.1                   | 94.9                     | IP55       | IC411                   |
| STPM180L10-18.5 | 8           | 380                    | 18.5                    | 1000                              | 66.7                     | 176.7                            | 530.0                           | 32.0                   | 95.3                     | IP55       | IC411                   |
| STPM180L10-22   | 8           | 380                    | 22                      | 1000                              | 66.7                     | 210.1                            | 630.2                           | 38.0                   | 95.6                     | IP55       | IC411                   |
| STPM200L10-18.5 | 8           | 380                    | 18.5                    | 1000                              | 66.7                     | 176.7                            | 530.0                           | 32.0                   | 95.3                     | IP55       | IC411                   |
| STPM200L10-22   | 8           | 380                    | 22                      | 1000                              | 66.7                     | 210.1                            | 630.2                           | 38.0                   | 95.6                     | IP55       | IC411                   |
| STPM200L10-30   | 8           | 380                    | 30                      | 1000                              | 66.7                     | 286.5                            | 859.4                           | 51.7                   | 95.8                     | IP55       | IC411                   |
| STPM225M10-30   | 8           | 380                    | 30                      | 1000                              | 66.7                     | 286.5                            | 859.4                           | 51.7                   | 95.8                     | IP55       | IC411                   |
| STPM225M10-37   | 8           | 380                    | 37                      | 1000                              | 66.7                     | 353.3                            | 1059.9                          | 63.6                   | 96.0                     | IP55       | IC411                   |
| STPM250M10-37   | 8           | 380                    | 37                      | 1000                              | 66.7                     | 353.3                            | 1059.9                          | 63.6                   | 96.0                     | IP55       | IC411                   |
| STPM250M10-45   | 8           | 380                    | 45                      | 1000                              | 66.7                     | 429.7                            | 1289.1                          | 76.1                   | 96.2                     | IP55       | IC411                   |
| STPM280M10-45   | 8           | 380                    | 45                      | 1000                              | 66.7                     | 429.7                            | 1289.1                          | 76.1                   | 96.2                     | IP55       | IC416                   |
| STPM280M10-55   | 8           | 380                    | 55                      | 1000                              | 66.7                     | 525.2                            | 1575.6                          | 92.9                   | 96.3                     | IP55       | IC416                   |
| STPM280M10-75   | 8           | 380                    | 75                      | 1000                              | 66.7                     | 716.2                            | 2148.5                          | 126.5                  | 96.4                     | IP55       | IC416                   |
| STPM315M10-55   | 8           | 380                    | 55                      | 1000                              | 66.7                     | 525.2                            | 1575.6                          | 92.9                   | 96.3                     | IP55       | IC416                   |
| STPM315M10-75   | 8           | 380                    | 75                      | 1000                              | 66.7                     | 716.2                            | 2148.5                          | 126.5                  | 96.4                     | IP55       | IC416                   |
| STPM315M10-90   | 8           | 380                    | 90                      | 1000                              | 66.7                     | 859.4                            | 2578.2                          | 151.7                  | 96.5                     | IP55       | IC416                   |
| STPM315M10-110  | 8           | 380                    | 110                     | 1000                              | 66.7                     | 1050.4                           | 3151.2                          | 182.6                  | 96.6                     | IP55       | IC416                   |
| STPM315L10-132  | 8           | 380                    | 132                     | 1000                              | 66.7                     | 1260.5                           | 3781.4                          | 218.9                  | 96.7                     | IP55       | IC416                   |
| STPM315L10-160  | 8           | 380                    | 160                     | 1000                              | 66.7                     | 1527.8                           | 4583.5                          | 265.1                  | 96.8                     | IP55       | IC416                   |
| STPM315L10-200  | 8           | 380                    | 200                     | 1000                              | 66.7                     | 1909.8                           | 5729.4                          | 331.0                  | 96.9                     | IP55       | IC416                   |

Technical Data IE4、IE5  
STPM Series Variable Frequency and Variable Speed Permanent Magnet Synchronous Motor

| 型 号<br>Type      | 极 数<br>Pole | 额定电压<br>Voltage<br>(V) | 额定功率<br>Out Put<br>(kW) | 额定转速<br>Rated<br>Speed<br>(R/min) | 频 率<br>Frequency<br>(Hz) | 额定转矩<br>Rated<br>Torque<br>(N.m) | 峰值转矩<br>Peak<br>Torque<br>(N.m) | 额定电流<br>Current<br>(A) | 效 率<br>Efficiency<br>(%) | 防护等级<br>IP | 冷却方式<br>Cooling<br>Mode |
|------------------|-------------|------------------------|-------------------------|-----------------------------------|--------------------------|----------------------------------|---------------------------------|------------------------|--------------------------|------------|-------------------------|
| STPM90S7.5-0.55  | 10          | 380                    | 0.55                    | 750                               | 62.5                     | 7.0                              | 21.0                            | 1.2                    | 78.8                     | IP55       | IC411                   |
| STPM90S7.5-0.75  | 10          | 380                    | 0.75                    | 750                               | 62.5                     | 9.5                              | 28.6                            | 1.5                    | 80.2                     | IP55       | IC411                   |
| STPM90L7.5-1.1   | 10          | 380                    | 1.1                     | 750                               | 62.5                     | 14.0                             | 42.0                            | 2.2                    | 81.7                     | IP55       | IC411                   |
| STPM112M7.5-1.1  | 6           | 380                    | 1.1                     | 750                               | 37.5                     | 14.0                             | 42.0                            | 2.2                    | 81.7                     | IP55       | IC411                   |
| STPM112M7.5-1.5  | 6           | 380                    | 1.5                     | 750                               | 37.5                     | 19.1                             | 57.3                            | 3.0                    | 83.1                     | IP55       | IC411                   |
| STPM132S7.5-2.2  | 6           | 380                    | 2.2                     | 750                               | 37.5                     | 28.0                             | 84.0                            | 4.3                    | 84.5                     | IP55       | IC411                   |
| STPM132M7.5-3    | 6           | 380                    | 3                       | 750                               | 37.5                     | 38.2                             | 114.6                           | 5.8                    | 85.9                     | IP55       | IC411                   |
| STPM160M7.5-4    | 8           | 380                    | 4                       | 750                               | 50.0                     | 50.9                             | 152.8                           | 7.6                    | 87.1                     | IP55       | IC411                   |
| STPM160M7.5-5.5  | 8           | 380                    | 5.5                     | 750                               | 50.0                     | 70.0                             | 210.1                           | 10.3                   | 88.3                     | IP55       | IC411                   |
| STPM160L7.5-7.5  | 8           | 380                    | 7.5                     | 750                               | 50.0                     | 95.5                             | 286.5                           | 13.9                   | 89.3                     | IP55       | IC411                   |
| STPM180L7.5-11   | 8           | 380                    | 11                      | 750                               | 50.0                     | 140.1                            | 420.2                           | 20.1                   | 90.4                     | IP55       | IC411                   |
| STPM200L7.5-15   | 8           | 380                    | 15                      | 750                               | 50.0                     | 191.0                            | 572.9                           | 27.1                   | 91.2                     | IP55       | IC411                   |
| STPM225S7.5-18.5 | 8           | 380                    | 18.5                    | 750                               | 50.0                     | 235.5                            | 706.6                           | 33.3                   | 91.7                     | IP55       | IC411                   |
| STPM225M7.5-22   | 8           | 380                    | 22                      | 750                               | 50.0                     | 280.1                            | 840.3                           | 39.4                   | 92.1                     | IP55       | IC411                   |
| STPM250M7.5-30   | 8           | 380                    | 30                      | 750                               | 50.0                     | 382.0                            | 1145.9                          | 53.4                   | 92.7                     | IP55       | IC411                   |
| STPM280S7.5-37   | 8           | 380                    | 37                      | 750                               | 50.0                     | 471.1                            | 1413.3                          | 65.6                   | 93.1                     | IP55       | IC416                   |
| STPM280M7.5-45   | 8           | 380                    | 45                      | 750                               | 50.0                     | 572.9                            | 1718.8                          | 78.4                   | 93.4                     | IP55       | IC416                   |
| STPM315S7.5-55   | 8           | 380                    | 55                      | 750                               | 50.0                     | 700.3                            | 2100.8                          | 95.5                   | 93.7                     | IP55       | IC416                   |
| STPM315M7.5-75   | 8           | 380                    | 75                      | 750                               | 50.0                     | 954.9                            | 2864.7                          | 129.5                  | 94.2                     | IP55       | IC416                   |
| STPM315L7.5-90   | 8           | 380                    | 90                      | 750                               | 50.0                     | 1145.9                           | 3437.6                          | 155.1                  | 94.4                     | IP55       | IC416                   |
| STPM315L7.5-110  | 8           | 380                    | 110                     | 750                               | 50.0                     | 1400.5                           | 4201.6                          | 186.3                  | 94.7                     | IP55       | IC416                   |

The Detail Of Mounting Type And Overall Dimention According To Our Catalogue Of IEC Standard IE3/IE4 Three Phase Induction Motor

