

## 无齿曳引机

### Gearless traction machine

## WTYF250



### • 产品特点 Product Characteristics

曳引比: 1:1、2:1

额定载重: 800、1000、1250、1350、1600、2000、2500kg

额定梯速: 1、1.6、1.75、2、2.5、3m/s

最大提升高度: 120m

最大轴负荷: 6000kg

适配变频器: 3相400V级

制动器电压: 动作电压DC200V, 保持电压DC100V

电动机极数: 24极

Traction ratio: 1:1、2:1

Rated capacity: 800、1000、1250、1350、1600、2000、2500kg

Rated elevator speed: 1, 1.6, 1.75, 2, 2.5, 3m/s

Max. lifting height: 120m

Max. shaft load: 6000kg

Applicable converter: 3 phase 400V

Brake voltage: DC200V for brake opening, and DC100V for brake holding

Number of motor poles: 24 poles

## • 产品描述 Product Description

WTYF250系列永磁同步无齿曳引机，采用低速、大力矩的三相永磁同步电动机直接驱动方式，因此具有低能耗、低噪音、无污染、少维护等优越性。

安装在井道顶部，曳引方式布置为上拉，并具有手动盘车功能。

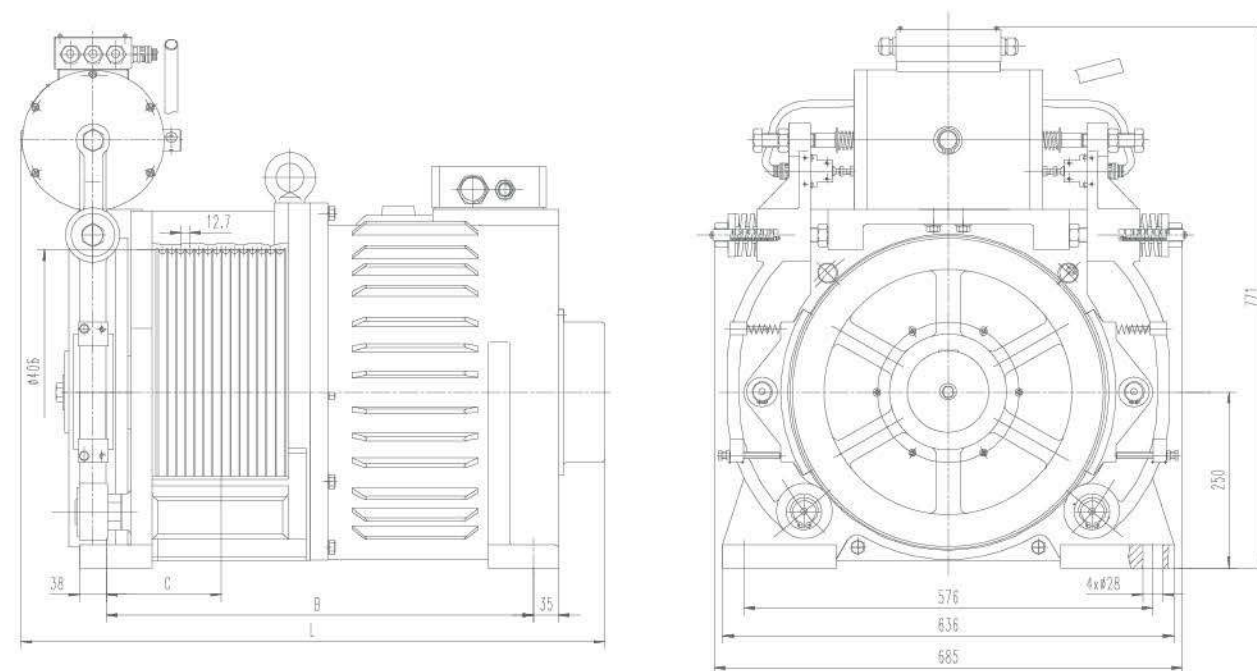
本系列永磁同步无齿曳引机采用复绕型式，绕比有2:1和1:1二种，在客户有特殊要求时，可与制造厂协商，制成单绕型式。

WYF250 series of permanent-magnet synchronous gearless traction machines are directly driven by a low-speed, high-torque, 3-phase permanent magnet synchronous motor, and therefore has the advantages of low energy consumption, low noises, no pollution, and little maintenance.

These traction machines can be installed on the top of shaft way, with upward traction, and have handwinding function.

This series of permanent-magnet synchronous gearless traction machine adapts double wrap, with the roping factor of 2:1 and 1:1. If customers have any special requirements, please contact us and we can also manufacture permanent-magnet synchronous gearless traction machines with single wrap upon customer's request.

### • 外形和安装尺寸 Overall dimensions and mounting dimensions



| 型号<br>Type    | 规格<br>Specification | 曳引比<br>Traction<br>Ratio | 梯速<br>Speed<br>(m/s) | 载重<br>Load<br>(kg) | 功率<br>Power<br>(kW) | 转速<br>Rev<br>(r/min) | 频率<br>Frequency<br>(Hz) | 电流   | 转矩<br>Torque<br>(N•m) | 绳规<br>Rope | 自重<br>weight<br>(kg) | L   | B     | C     | 推荐提升高度<br>Recommended lifting<br>height (m) |
|---------------|---------------------|--------------------------|----------------------|--------------------|---------------------|----------------------|-------------------------|------|-----------------------|------------|----------------------|-----|-------|-------|---------------------------------------------|
| WTYF250       | F-10-1350-2         | 2:1                      | 1.00                 | 1350               | 9.50                | 94                   | 18.8                    | 21.6 | 950                   | 7xØ10      | 624                  | 808 | 602   | 160.5 | 45                                          |
|               | F-16-1350-2         |                          | 1.60                 |                    | 14.9                | 150.5                | 30.1                    | 33.7 | 950                   |            |                      |     |       |       | 70                                          |
|               | F-17.5-1350-2       |                          | 1.75                 |                    | 16.5                | 165                  | 32.9                    | 37.0 | 950                   |            |                      |     |       |       | 80                                          |
|               | F-20-1350-2         |                          | 2.00                 |                    | 18.9                | 188                  | 37.6                    | 42.6 | 950                   |            |                      |     |       |       | 80                                          |
|               | F-25-1350-2         |                          | 2.50                 |                    | 23.4                | 235                  | 47                      | 52.5 | 950                   |            |                      |     |       |       | 120                                         |
|               | F-30-1350-2         | 3.00                     | 28.4                 | 282                | 56.4                | 63.6                 | 950                     | 120  |                       |            |                      |     |       |       |                                             |
|               | F-10-1600-2         | 2:1                      | 1.00                 | 1600               | 11.2                | 94                   | 18.8                    | 25.5 | 1126                  | 7xØ10      | 638                  | 808 | 602   | 160.5 | 45                                          |
|               | F-16-1600-2         |                          | 1.60                 |                    | 17.7                | 150.5                | 30.1                    | 41.0 | 1127                  |            |                      |     |       |       | 70                                          |
|               | F-17.5-1600-2       |                          | 1.75                 |                    | 19.5                | 165                  | 32.9                    | 45.0 | 1128                  |            |                      |     |       |       | 80                                          |
|               | F-20-1600-2         |                          | 2.00                 |                    | 22.4                | 188                  | 37.6                    | 51.5 | 1126                  |            |                      |     |       |       | 80                                          |
|               | F-25-1600-2         |                          | 2.50                 |                    | 27.8                | 235                  | 47                      | 64.2 | 1130                  |            |                      |     |       |       | 120                                         |
|               | F-30-1600-2         | 3.00                     | 33.1                 | 282                | 56.4                | 76.9                 | 1130                    | 120  |                       |            |                      |     |       |       |                                             |
|               | F-10-2000-2         | 2:1                      | 1.00                 | 2000               | 14.0                | 94                   | 18.8                    | 31.9 | 1410                  | 9xØ10      | 730                  | 995 | 789   | 211.5 | 45                                          |
|               | F-16-2000-2         |                          | 1.60                 |                    | 22.1                | 150.5                | 30.1                    | 48.0 | 1410                  |            |                      |     |       |       | 70                                          |
|               | F-17.5-2000-2       |                          | 1.75                 |                    | 24.4                | 165                  | 32.9                    | 53.4 | 1410                  |            |                      |     |       |       | 80                                          |
|               | F-20-2000-2         |                          | 2.00                 |                    | 28.0                | 188                  | 37.6                    | 60.5 | 1410                  |            |                      |     |       |       | 80                                          |
|               | F-10-2500-2         |                          | 1.00                 |                    | 17.5                | 94                   | 18.8                    | 39.5 | 1760                  |            |                      |     |       |       | 45                                          |
|               | F-16-2500-2         | 2:1                      | 1.60                 | 2500               | 27.6                | 150.5                | 30.1                    | 60.0 | 1760                  | 11xØ10     | 775                  | 995 | 789   | 211.5 | 70                                          |
|               | F-17.5-2500-2       |                          | 1.75                 |                    | 30.4                | 165                  | 32.9                    | 66.7 | 1760                  |            |                      |     |       |       | 80                                          |
|               | F-20-2500-2         |                          | 2.00                 |                    | 35.0                | 188                  | 37.6                    | 76.2 | 1760                  |            |                      |     |       |       | 80                                          |
|               | F-10-800-1          | 1:1                      | 1.00                 | 800                | 5.50                | 47                   | 9.4                     | 14.2 | 1126                  | 7xØ10      | 638                  | 808 | 602   | 160.5 | 45                                          |
|               | F-16-800-1          |                          | 1.60                 |                    | 8.80                | 75                   | 15.1                    | 21.8 | 1126                  |            |                      |     |       |       | 70                                          |
|               | F-17.5-800-1        |                          | 1.75                 |                    | 9.80                | 82                   | 16.5                    | 23.9 | 1126                  |            |                      |     |       |       | 80                                          |
|               | F-20-800-1          |                          | 2.00                 |                    | 11.2                | 94                   | 18.8                    | 26.7 | 1126                  |            |                      |     |       |       | 80                                          |
|               | F-10-1000-1         | 1:1                      | 1.00                 | 1000               | 6.90                | 47                   | 9.4                     | 18.0 | 1410                  | 9xØ10      | 730                  | 995 | 789   | 211.5 | 45                                          |
|               | F-16-1000-1         |                          | 1.60                 |                    | 11.1                | 75                   | 15.1                    | 25.4 | 1410                  |            |                      |     |       |       | 70                                          |
|               | F-17.5-1000-1       |                          | 1.75                 |                    | 12.3                | 82                   | 16.5                    | 27.6 | 1410                  |            |                      |     |       |       | 80                                          |
|               | F-20-1000-1         |                          | 2.00                 |                    | 14.0                | 94                   | 18.8                    | 33.2 | 1410                  |            |                      |     |       |       | 80                                          |
|               | F-25-1000-1         |                          | 2.50                 |                    | 17.4                | 118                  | 23.5                    | 40.1 | 1410                  |            |                      |     |       |       | 120                                         |
|               | F-30-1000-1         | 3.00                     | 20.8                 | 141                | 28.2                | 47.8                 | 1410                    | 120  |                       |            |                      |     |       |       |                                             |
| F-10-1250-1   | 1:1                 | 1.00                     | 1250                 | 8.70               | 47                  | 9.4                  | 22.5                    | 1760 | 11xØ10                | 775        | 995                  | 789 | 211.5 | 45    |                                             |
| F-16-1250-1   |                     | 1.60                     |                      | 13.8               | 75                  | 15.1                 | 34.0                    | 1760 |                       |            |                      |     |       | 70    |                                             |
| F-17.5-1250-1 |                     | 1.75                     |                      | 15.3               | 82                  | 16.5                 | 37.1                    | 1760 |                       |            |                      |     |       | 80    |                                             |
| F-20-1250-1   |                     | 2.00                     |                      | 17.5               | 94                  | 18.8                 | 41.5                    | 1760 |                       |            |                      |     |       | 80    |                                             |
| F-25-1250-1   |                     | 2.50                     |                      | 21.7               | 118                 | 23.5                 | 50.1                    | 1760 |                       |            |                      |     |       | 80    |                                             |
| F-30-1250-1   |                     | 3.00                     |                      | 26.0               | 141                 | 28.2                 | 58.8                    | 1760 |                       |            |                      |     |       | 80    |                                             |