

伺服驱动/Servo Drive

台达伺服驱动/DELTA Servo Drive



VFD-VJ系列是台达致力于橡塑行业应用多年的油电伺服驱动器，具有2.2倍优异的过载性能、深度弱磁控制、电机启动速度快、输出一致性好、多重保护等特色，支持SPM和IPM电机算法，提供风冷和液冷两种机型，适用于各种工作环境。

The VFD-VJ series is a diesel-electric servo driver that Delta has devoted to the rubber and plastic industry for many years. It has 2.2 times the excellent overload performance, deep field weakening control, fast motor starting speed, good output consistency, multiple protections and other features. It supports SPM And IPM motor algorithm, provide air-cooled and liquid-cooled models, suitable for various working environments.

| | | | | | | | | |
|------------------------|------------|-----------|-----------|----------|----------|----------|------------------------------------|--|
| VFD | 370 | VL | 43 | C | - | J | 风冷型 | Air-cooled |
| | | | | | | | - | JO |
| 产品系列 Product series | | | | | | | 油冷型 | Oil-cooled |
| | | | | | | | 版本 | Version |
| 产品系列 Product series | | | | | | | 输入电压 | Input voltage 23:230V 三相 43:460V 三相 |
| | | | | | | | 风冷型驱动器功率 Air-cooled drive power | 油冷型驱动器功率 Oil-cooled drive power |
| | | | | | | | 110: 15HP(11kW) | 370: 50HP(37kW) |
| | | | | | | | 150: 20HP(15kW) | 450: 60HP(45kW) |
| | | | | | | | 185: 25HP(18.5kW) | 550: 75HP(55kW) |
| | | | | | | | 220: 30HP(22kW) | 750: 100HP(75kW) |
| | | | | | | | 300: 40HP(30kW) | 750: 100HP(75kW) |

ABT伺服驱动/Servo Drive



ABT系列伺服驱动是我司与美国艾伯特流体动力有限公司合作共同研发的高性能伺服液压专用驱动，专为油泵控制设计，精确速度控制，实现最大程度节能。

The ABT series servo drive is a high-performance servo-hydraulic special drive jointly developed by our company and the United States Albert Fluid Power Co., Ltd., designed for oil pump control, precise speed control, and maximum energy saving.

| | | | | | |
|---------------------------------|----------|----------|----------|------------|----------------------------------|
| ABT680 | - | T | - | 015 | 驱动器额定输出功率: |
| | | | | | Rated output power of the drive: |
| T: 三相380V Three phase | | | | | 003: 3.7kw 037: 37kw |
| | | | | | 005: 5.5kw 045: 45kw |
| ABT680: 产品系列号 Product series | | | | | 007: 7.5kw 055: 55kw |
| | | | | | 011: 11kw 075: 75kw |
| | | | | | 015: 15kw 090: 90kw |
| | | | | | 018: 18.5kw 110: 110kw |
| | | | | | 022: 22kw 130: 132kw |
| | | | | | 030: 30kw 160: 160kw |

菲仕伺服电机/PHASE Servo Motor

表贴系列伺服电机参数表/SPM series surface mount servo motor parameters table

| 电机型号 Motor Model | 额定转速 Rated speed | 额定扭矩 Rated torque | 额定功率 Rated Power | 额定电流 Rated Current | 电压等级 Rated Voltage | 峰值扭矩 Peak Torque | 扭矩常数 Torque constant | 转动惯量 Inertia with brake Opeion | 额定频率 Rated Frequency |
|---------------------|---------------------|----------------------|---------------------|-----------------------|-----------------------|---------------------|-------------------------|--------------------------------------|-------------------------|
| 单位 Unit | rpm | Nm | kW | A | V | Nm | Nm/A | Kg*cm ² | Hz |
| U1004F15.3 | 1500 | 38 | 6.0 | 11.6 | 380 | 105 | 3.32 | 50 | 100 |
| U1004F17.3 | 1700 | 38.9 | 7 | 15.2 | 380 | 105 | 2.81 | 50 | 113 |
| U1004F20.3 | 2000 | 42 | 8.8 | 18.8 | 380 | 105 | 2.37 | 50 | 133 |
| U1005F15.3 | 1500 | 55 | 8.6 | 16.6 | 380 | 157 | 3.31 | 70 | 100 |
| U1005F17.3 | 1700 | 57 | 10 | 20.4 | 380 | 157 | 2.81 | 70 | 113 |
| U1005F20.3 | 2000 | 58 | 12 | 24.3 | 380 | 157 | 2.6 | 70 | 133 |
| U1007F15.3 | 1500 | 74 | 11.6 | 23.9 | 380 | 210 | 3.37 | 90 | 100 |
| U1007F17.3 | 1700 | 80 | 14 | 28.2 | 380 | 210 | 2.85 | 90 | 113 |
| U1007F20.3 | 2000 | 87 | 18.2 | 36.7 | 380 | 210 | 2.53 | 90 | 133 |
| U1008F15.3 | 1500 | 103 | 16.4 | 33.2 | 380 | 260 | 3.38 | 110 | 100 |
| U1008F17.3 | 1700 | 96.2 | 17.6 | 35.1 | 380 | 260 | 2.98 | 110 | 113 |
| U1008F20.3 | 2000 | 95.6 | 20.4 | 40.1 | 380 | 260 | 2.58 | 110 | 133 |
| U1010F15.3 | 1500 | 128 | 22 | 41 | 380 | 310 | 3.3 | 130 | 100 |
| U1010F18.3 | 1800 | 122 | 23 | 44 | 380 | 310 | 2.87 | 130 | 113 |
| U1010F20.3 | 2000 | 135 | 28.3 | 60.5 | 380 | 310 | 2.37 | 130 | 133 |
| U1013F15.3 | 1500 | 186 | 29 | 61 | 380 | 410 | 3.26 | 170 | 100 |
| U1013F17.3 | 1700 | 164.2 | 28.7 | 55.39 | 380 | 410 | 3.19 | 170 | 113 |
| U1013F20.3 | 2000 | 175 | 36.7 | 73.7 | 380 | 410 | 2.53 | 170 | 133 |
| U1315F15.3 | 1500 | 195.6 | 30.5 | 71.5 | 380 | 450 | 3.02 | 317 | 100 |
| U1315F17.3 | 1700 | 195.29 | 35.9 | 72.9 | 380 | 450 | 2.98 | 317 | 113 |
| U1315F20.3 | 2000 | 191 | 40 | 97.8 | 380 | 450 | 2.15 | 317 | 133 |
| U1320F15.3 | 1500 | 210 | 33 | 62 | 380 | 550 | 3.43 | 410 | 100 |
| U1320F17.3 | 1700 | 229 | 39.4 | 92.6 | 380 | 550 | 2.94 | 410 | 113 |
| U1320F18.3 | 1800 | 232 | 44 | 96.46 | 380 | 550 | 2.64 | 410 | 120 |
| U1320F20.3 | 2000 | 269 | 56.3 | 120.7 | 380 | 550 | 2.37 | 410 | 133 |
| U1325F15.3 | 1500 | 308 | 49.6 | 99.9 | 380 | 690 | 3.43 | 500 | 100 |
| U1325F17.3 | 1700 | 304.5 | 55.4 | 111 | 380 | 690 | 3.05 | 500 | 113 |
| U1325F20.3 | 2000 | 291.2 | 71.9 | 141.5 | 380 | 690 | 2.29 | 500 | 133 |
| U1330F15.3 | 1500 | 380 | 60 | 106 | 380 | 830 | 3.56 | 593 | 100 |
| U1330F17.3 | 1700 | 399 | 71 | 155.5 | 380 | 830 | 2.84 | 593 | 113 |
| U1330F20.3 | 2000 | 389 | 81.4 | 155.3 | 380 | 830 | 2.67 | 593 | 133 |
| U1340F15.3 | 1500 | 450 | 70 | 130 | 380 | 1100 | 3.56 | 777 | 100 |
| U1340F20.3 | 2000 | 511 | 107 | 229.7 | 380 | 1100 | 2.37 | 777 | 133 |

注: (1) 最大转速: 若不使用驱动器的弱磁控制功能, 最大转速一般比额定转速高500rpm; 若使用驱动器的弱磁控制功能, 最大转速由驱动器来决定。
(2) 电机的极数: 以上电机的极数均为8极, 即4对极。

Note: 1. Max speed: If you don't use the flux-weakening control function, the max rotational speed will be higher 500rpm than rated speed. If you use the flux-weakening control function, the max rotational speed is decided by the drive.
2. Pole Number: The pole number of above motor is 8 poles, it's 4 pairs of poles.

电机的安装/Servo motor installation:

电机的转轴主要采用标准轴(光轴或带单键轴)、内花键轴、外花键轴或中空轴; 电机接线盒内编码器的信号接线主要采用PCB板, 也可选择航空插座; 电机的安装可选择法兰安装或底板安装。

The motor's spindle is the standard shaft optic axis or with single bond axis. Internal splined shaft outer splined shaft or hollow shaft. The signal of encoder inside of motor's junction box uses PCB board, also can choose aerial socket. The motor installly can choose flange

内嵌系列伺服电机参数表

IPM series inner mount servo motor parameters table

| 电机型号 Motor Model | 额定转速 Rated speed | 额定扭矩 Rated torque | 额定功率 Rated Power | 额定电流 Rated Current | 电压等级 Rated Voltage | 峰值扭矩 Peak Torque | 扭矩常数 Torque constant | 转动惯量 Inertia with brake Opeion | 额定频率 Rated Frequency |
|---------------------|---------------------|----------------------|---------------------|-----------------------|-----------------------|---------------------|-------------------------|-----------------------------------|-------------------------|
| 单位 Unit | rpm | Nm | kW | A | V | Nm | Nm/A | Kg*cm ² | Hz |
| E1004F15.3 | 1500 | 50 | 7.9 | 15 | 380 | 145 | 3.43 | 56 | 100 |
| E1004F17.3 | 1700 | 50 | 8.9 | 17 | 380 | 145 | 2.91 | 56 | 113 |
| E1004F20.3 | 2000 | 50 | 10 | 19 | 380 | 145 | 2.57 | 56 | 133 |
| E1005F15.3 | 1500 | 75 | 12 | 23 | 380 | 222 | 3.38 | 80 | 100 |
| E1005F17.3 | 1700 | 74 | 13 | 26 | 380 | 222 | 2.86 | 80 | 113 |
| E1005F20.3 | 2000 | 73 | 15 | 29 | 380 | 222 | 2.60 | 80 | 133 |
| E1007F15.3 | 1500 | 100 | 16 | 29 | 380 | 297 | 3.46 | 103 | 100 |
| E1007F17.3 | 1700 | 99 | 18 | 32 | 380 | 297 | 3.12 | 103 | 113 |
| E1007F20.3 | 2000 | 97 | 20 | 38 | 380 | 297 | 2.60 | 103 | 133 |
| E1008F15.3 | 1500 | 124 | 20 | 39 | 380 | 371 | 3.25 | 126 | 100 |
| E1008F17.3 | 1700 | 123 | 22 | 41 | 380 | 371 | 3.03 | 126 | 113 |
| E1008F20.3 | 2000 | 121 | 25 | 47 | 380 | 371 | 2.60 | 126 | 133 |
| E1010F15.3 | 1500 | 148 | 23 | 45 | 380 | 445 | 3.38 | 150 | 100 |
| E1010F17.3 | 1700 | 146 | 26 | 52 | 380 | 445 | 2.86 | 150 | 113 |
| E1010F20.3 | 2000 | 143 | 30 | 56 | 380 | 445 | 2.60 | 150 | 133 |
| E1012F15.3 | 1500 | 171 | 27 | 52 | 380 | 520 | 3.33 | 173 | 100 |
| E1012F17.3 | 1700 | 168 | 30 | 57 | 380 | 520 | 3.03 | 173 | 113 |
| E1012F20.3 | 2000 | 165 | 34 | 69 | 380 | 520 | 2.42 | 173 | 133 |
| E1013F15.3 | 1500 | 193 | 30 | 57 | 380 | 594 | 3.46 | 196 | 100 |
| E1013F17.3 | 1700 | 190 | 34 | 62 | 380 | 594 | 3.12 | 196 | 113 |
| E1013F20.3 | 2000 | 187 | 39 | 69 | 380 | 594 | 2.77 | 196 | 133 |
| E1215F15.3 | 1500 | 206 | 32 | 64 | 380 | 467 | 3.27 | 253 | 100 |
| E1215F17.3 | 1700 | 203 | 36 | 70 | 380 | 467 | 2.98 | 253 | 113 |
| E1215F20.3 | 2000 | 197 | 41 | 75 | 380 | 467 | 2.67 | 253 | 133 |
| E1220F15.3 | 1500 | 255 | 40 | 78 | 380 | 585 | 3.34 | 310 | 100 |
| E1220F17.3 | 1700 | 250 | 45 | 86 | 380 | 585 | 2.98 | 310 | 113 |
| E1220F20.3 | 2000 | 243 | 51 | 95 | 380 | 585 | 2.60 | 310 | 133 |
| E1225F15.3 | 1500 | 300 | 47 | 86 | 380 | 700 | 3.57 | 370 | 100 |
| E1225F17.3 | 1700 | 294 | 52 | 96 | 380 | 700 | 3.13 | 370 | 113 |
| E1225F20.3 | 2000 | 285 | 60 | 109 | 380 | 700 | 2.67 | 370 | 133 |
| E1230F15.3 | 1500 | 351 | 55 | 100 | 380 | 800 | 3.64 | 427 | 100 |
| E1230F17.3 | 1700 | 344 | 61 | 114 | 380 | 800 | 3.13 | 427 | 113 |
| E1230F20.3 | 2000 | 336 | 70 | 134 | 380 | 800 | 2.60 | 427 | 133 |
| E1235F15.3 | 1500 | 395 | 62 | 115 | 380 | 920 | 3.57 | 485 | 100 |
| E1235F17.3 | 1700 | 387 | 69 | 135 | 380 | 920 | 2.98 | 485 | 113 |
| E1235F20.3 | 2000 | 377 | 79 | 164 | 380 | 920 | 2.38 | 485 | 133 |

**ABT 伺服电机
Servo Motor**

ABT电机是美国艾伯特流体动力有限公司(威斯克子公司)针对油电伺服的特性设计开发的高性能永磁同步伺服电机。

ABT Motor is a high-performance permanent magnetic synchronous servo motor developed by Albert Fluid Power Co., Ltd. (a subsidiary of NVICKS) for the design of the characteristics of oil-electric servo.

| | | | |
|------------------------------|--|---|-------|
| ABT | 1004 | F | 15 .3 |
| 电机品牌 Motor brand | 3: 额定转速下额定电压380V 3: Rated voltage 380V at rated speed | | |
| 电机规格 Motor specifications | 额定转速÷100 Rated speed÷100 | | |

 F: 表贴磁钢
T: 内嵌磁钢
F: 表面与磁钢
E: 内嵌磁钢
T: 表贴磁钢和油泵同轴
F: 表贴磁钢
E: 内嵌磁钢
T: 表贴磁钢和油泵同轴

伺服电机参数表/Servo motor parameter table

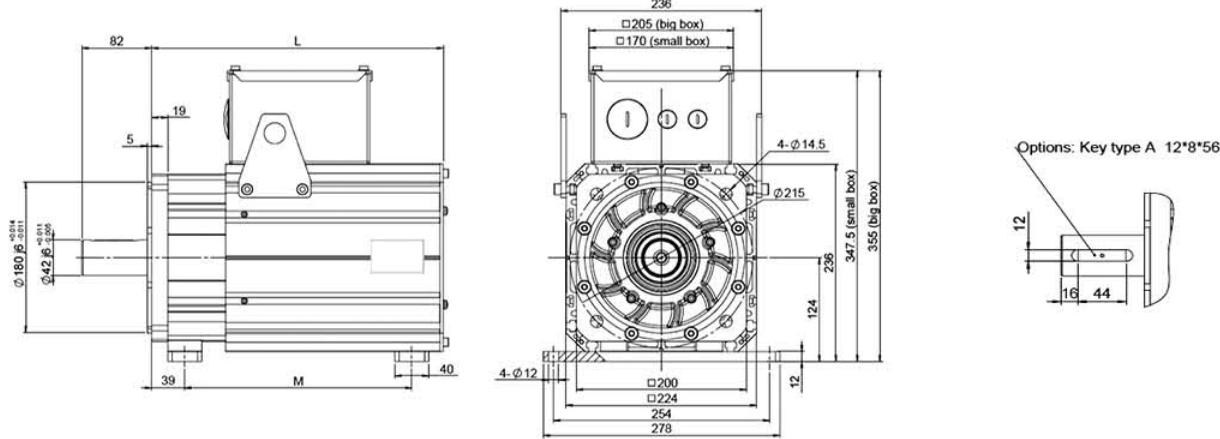
| 表贴 电机规格 SPM Motor Model | 额定 转矩 Rated torque | 额定 转速 Rated speed | 额定 电流 Rated Current | 额定 功率 Rated Power | 额定 转矩常数 Torque constant | 额定 电压 Rated voltage | 内嵌 电机规格 IPM Motor Model | 额定 转矩 Rated torque | 额定 转速 Rated speed | 额定 电流 Rated Current | 额定 功率 Rated Power | 额定 转矩常数 Torque constant | 额定 电压 Rated voltage | | | | | | | |
|----------------------------------|--------------------------|-------------------------|---------------------------|-------------------------|-------------------------------|---------------------------|----------------------------------|--------------------------|-------------------------|---------------------------|-------------------------|-------------------------------|---------------------------|--------------|------|------|------|------|-------|-----|
| | | | | | | | Nm | rpm | A | Kw | Nm/A | V | Nm | rpm | Arms | Kw | Nm/A | V | | |
| ABT1004E15.3 | 45 | 1500 | 14.0 | 7.1 | 3.21 | 380 | ABT1004F15.3 | 44 | 1500 | 14.3 | 7.0 | 3.451 | 380 | ABT1004F17.3 | 47 | 1700 | 18.4 | 8.3 | 2.824 | 380 |
| ABT1004E17.3 | 43 | 1700 | 14.9 | 7.7 | 2.88 | 380 | ABT1004E20.3 | 42 | 2000 | 17.7 | 8.8 | 2.37 | 380 | ABT1004E20.3 | 47 | 2000 | 20.8 | 9.8 | 2.510 | 380 |
| ABT1004E20.3 | 42 | 2000 | 17.7 | 8.8 | 2.37 | 380 | ABT1005E15.3 | 68 | 1500 | 21.6 | 10.7 | 3.14 | 380 | ABT1005E15.3 | 59 | 1500 | 19.8 | 9.3 | 3.326 | 380 |
| ABT1005E15.3 | 68 | 1500 | 21.6 | 10.7 | 3.14 | 380 | ABT1005E17.3 | 64 | 1700 | 22.2 | 11.4 | 2.88 | 380 | ABT1005E17.3 | 63 | 1700 | 24.5 | 11.2 | 2.851 | 380 |
| ABT1005E17.3 | 64 | 1700 | 22.2 | 11.4 | 2.88 | 380 | ABT1005E20.3 | 65 | 2000 | 27.6 | 13.6 | 2.35 | 380 | ABT1005F20.3 | 62 | 2000 | 26.5 | 13.1 | 2.613 | 380 |
| ABT1005F20.3 | 65 | 2000 | 27.6 | 13.6 | 2.35 | 380 | ABT1007E15.3 | 90 | 1500 | 28.2 | 14.1 | 3.19 | 380 | ABT1007E15.3 | 85 | 1500 | 27.0 | 13.4 | 3.501 | 380 |
| ABT1007E15.3 | 90 | 1500 | 28.2 | 14.1 | 3.19 | 380 | ABT1007E17.3 | 86 | 1700 | 29.4 | 15.3 | 2.93 | 380 | ABT1007E17.3 | 85 | 1700 | 33.1 | 15.2 | 2.864 | 380 |
| ABT1007E17.3 | 86 | 1700 | 29.4 | 15.3 | 2.93 | 380 | ABT1007E20.3 | 85 | 2000 | 34.8 | 17.8 | 2.44 | 380 | ABT1007F20.3 | 87 | 2000 | 36.7 | 18.2 | 2.530 | 380 |
| ABT1007F20.3 | 85 | 2000 | 34.8 | 17.8 | 2.44 | 380 | ABT1008E15.3 | 114 | 1500 | 35.5 | 17.9 | 3.21 | 380 | ABT1008E15.3 | 103 | 1500 | 33.2 | 16.4 | 3.380 | 380 |
| ABT1008E15.3 | 114 | 1500 | 35.5 | 17.9 | 3.21 | 380 | ABT1008E17.3 | 108 | 1700 | 37.6 | 19.2 | 2.87 | 380 | ABT1008E17.3 | 101 | 17 | | | | |

表贴系列标准轴电机外型图及安装尺寸

SPM series surface mount standard shaft motor drawings and installation dimensions

10F系列标准轴电机尺寸图

10F Series standard shaft motor drawings

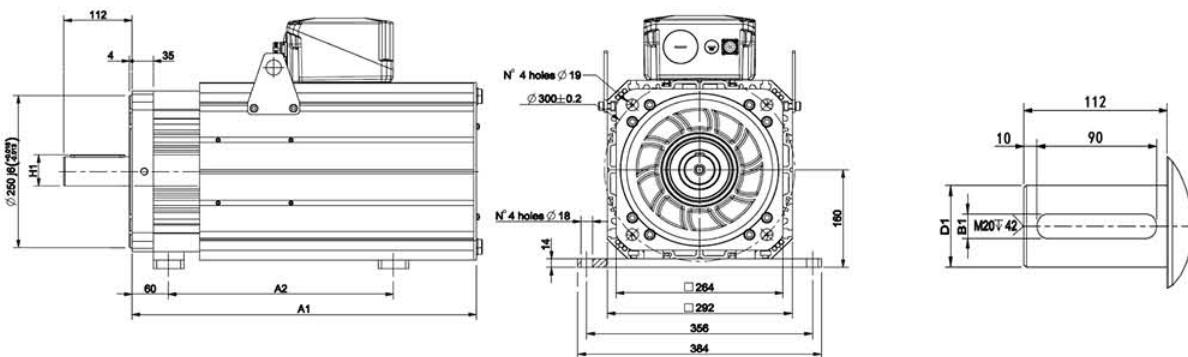


| 类型 /Type | U1004F | U1005F | U1007F | U1008F | U1010F | U1013F |
|-----------------------|--------|--------|--------|--------|--------|--------|
| M | 267 | 285 | 312 | 354 | 396 | 471 |
| L(Resolver R3,R4,etc) | 338.5 | 377.5 | 413.5 | 446.5 | 487.5 | 554.5 |

| 类型 /Type | ABT1004F | ABT1005F | ABT1007F | ABT1008F | ABT1010F | ABT1012F | ABT1013F | ABT1015F |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| L/mm | 345 | 380 | 416 | 452 | 488 | 524 | 560 | 596 |

13F系列标准轴电机尺寸图

13F Series standard shaft motor drawings



| 电机型号 Motor Model | A1 | | A2 | ΦD1 | B1 | H1 | KEY |
|---------------------|-----------|-----------|-----|------------|--------|----------|-------------------|
| | In ≤ 150A | In > 150A | | | | | |
| U1315F | 513.5 | 553.5 | 360 | 48j8 | 14 | 51.5 | 14x9x90 |
| U1320F | 566.5 | 606.5 | 370 | 48j7 | 14 | 51.5 | 14x9x91 |
| U1325F | 620 | 660 | 476 | 48j8 | 14 | 51.5 | 14x9x92 |
| U1330F | 673.5 | 713.5 | 476 | 48j9(60m6) | 14(18) | 51.5(64) | 14x9x93(18x11x90) |
| U1340F | 780.5 | 820.5 | 583 | 60m6 | 18 | 64 | 18x11x90 |

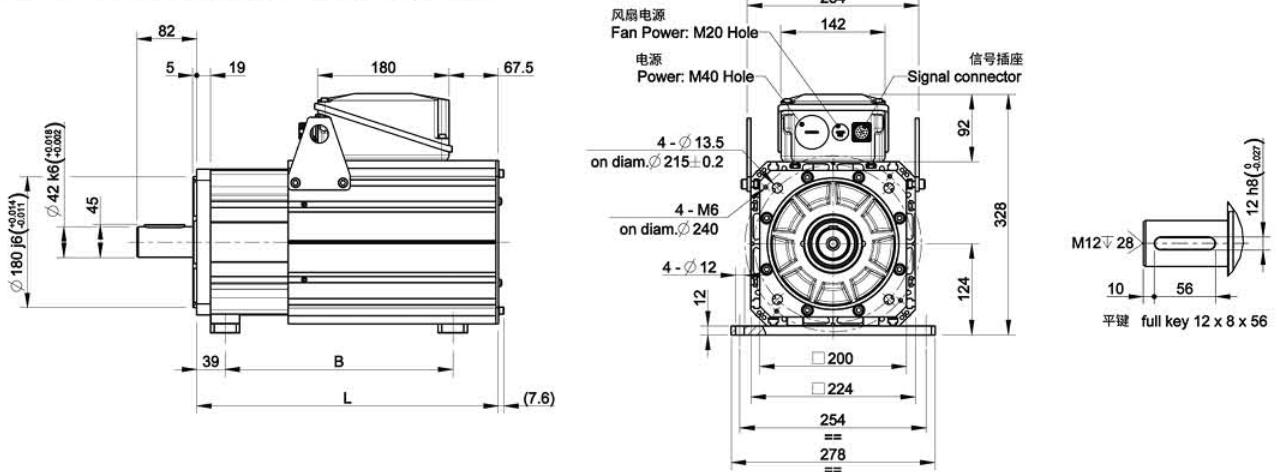
| 类型 /Type | ABT1315F | ABT1320F | ABT1325F | ABT1330F | ABT1340F | ABT1345F |
|----------|----------|----------|----------|----------|----------|----------|
| A1 /mm | 518 | 539 | 607.5 | 673 | 741 | 789.5 |

内嵌系列标准轴电机外型图及安装尺寸

IPM series inner mount standard shaft motor drawings and installation dimensions

10F/10E系列标准轴电机尺寸图

10F/10E Series standard shaft motor drawings

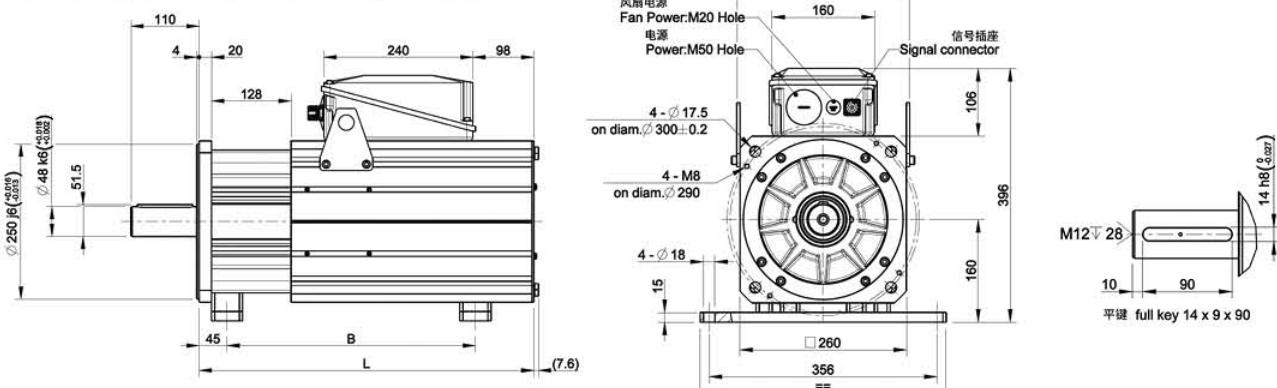


| 类型 /Type | E1004F | E1005F | E1007F | E1008F | E1010F | E1012F | E1013F |
|----------|--------|--------|--------|--------|--------|--------|--------|
| B/mm | 267 | 285 | 312 | 354 | 396 | 400 | 471 |
| L/mm | 342 | 378 | 414 | 450 | 486 | 527 | 558 |

| 类型 /Type | ABT1004E | ABT1005E | ABT1007E | ABT1008E | ABT1010E | ABT1012E | ABT1013E | ABT1015E |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| L/mm | 345 | 380 | 416 | 452 | 488 | 524 | 560 | 596 |

12F/13E系列标准轴电机尺寸图

12F/13E Series standard shaft motor drawings



| 类型 /Type | E1215F | E1220F | E1225F | E1230F | E1235F |
|----------|--------|--------|--------|--------|--------|
| B/mm | 400 | 450 | 500 | 550 | 600 |
| L/mm | 539 | 589 | 639 | 689 | 739 |

| 类型 /Type | ABT1315E | ABT1320E | ABT1325E | ABT1330E | ABT1340E | ABT1345E |
|-------------|----------|----------|----------|----------|----------|----------|
| L/mm | 518 | 539 | 607.5 | 673 | 741 | 789.5 |
| 轴直径 shaft Φ | 48K6 | | | | | 60m6 |
| Key | 14x9x90 | | | | | 18x11x90 |

伺服配套方案/Servo Matching Solutions

整套伺服系统命名规则/The whole set of servo system naming rules



系统装配方向命名规则/direction of system assembly naming rules

The system direction is composed of two letters

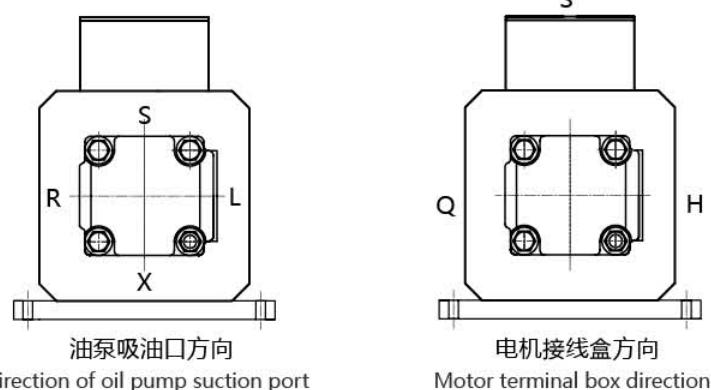
The first letter represents the direction of the suction port of the oil pump

The second letter represents the direction of the motor junction box

系统方向由两个字母组成

第一个字母代表油泵吸油口方向

第二个字母代表电机接线盒方向



常用系统方向示意图/Common system direction diagram



LS

RS

可根据上述产品和客户需求进行配套方案
According to customer demand for supporting programs



VG齿轮泵

VG gear pump

ABT油泵

ABT servo vane pump

艾可勒齿轮泵

Eckerle gear pump

住友齿轮泵

Sumitomo gear pump



菲仕电机

Phase servo motor



同轴电机

Coaxial servo motor



ABT电机

ABT servo motor



ABT驱动

ABT servo driver



台达驱动

Delta servo driver

| 序号 No. | 油泵 Pump | 电机 Motor | 驱动 Driver | 型号 Model number |
|-----------|------------------------------|-----------------------------|----------------------------|-----------------------------------|
| 1 | VG齿轮泵 VG gear pump | ABT电机 ABT servo motor | ABT驱动 ABT servo driver | VG50-ABT1008F-ABT18.5KW-RS |
| 2 | VG齿轮泵 VG gear pump | ABT电机 ABT servo motor | 台达驱动 Delta servo driver | VG50-ABT1008F-台达/Delta 18.5KW-RS |
| 3 | VG齿轮泵 VG gear pump | 菲仕电机 Phase servo motor | 台达驱动 Delta servo driver | VG50-U1008F-台达/Delta 18.5KW-RS |
| 4 | 住友齿轮泵 Sumitomo gear pump | 菲仕电机 Phase servo motor | 台达驱动 Delta servo driver | QT50-U1008F-台达/Delta 18.5KW-RS |
| 5 | 艾可勒齿轮泵 Eckerle gear pump | 菲仕电机 Phase servo motor | 台达驱动 Delta servo driver | EIPC50-U1008F-台达/Delta 18.5KW-RS |
| 6 | ABT油泵 ABT servo vane pump | 同轴电机 Coaxial servo motor | ABT驱动 ABT servo driver | ABT50-ABT1008T-ABT18.5KW-RS |
| 7 | ABT油泵 ABT servo vane pump | 同轴电机 Coaxial servo motor | 台达驱动 Delta servo driver | ABT50-ABT1008T-台达/Delta 18.5kw-RS |

备注: 1. 下单型号以常用的50cc油泵, 匹配18.5kw电机和驱动为例。
2. 同轴电机伺服系统详细见威克斯同轴伺服系统样本。

Remarks: 1. The order model takes the commonly use 50cc oil pump, matching 18.5kw motor and drive as an example.
2. For details of the coaxial motor servo system, please refer to the Vicks Coaxial Servo System catalogue.