

YH2 系列高转差率三相异步电动机

YH2 Series High Slip Three Phase Induction Motors



机座号 80~355
工作制 S3

功率 0.55kW~315kW
防护等级 IP44

适用于: 传动飞轮转矩较大和不均匀冲击负载以及反转次数较多的工作场合, 如金属加工机床, 如锤击机、剪切机、冲压机、锻压机等。

Applications: various kinds of machine tools with greater flywheel torque, unequal hammering load and many times of anticlockwise running, such as hammer-blower, shearer press, hammering press etc.

特点: 起动转矩大、起动电流小、转差率高和机械特性软。

Features: High starting torque, high slip, low starting current and steep mechanical performance.

性能数据 Performance Data

380V 50Hz

| 型号 Type | 功率 kW | 满载时 Full Load | | | | | | 在下列 FC 下的输出功率 kW The output at different FC | | | | | 堵转电流 额定电流 $\frac{I_{LC}}{I_N}$ | 堵转转矩 额定转矩 $\frac{T_{st}}{T_N}$ |
|----------------|----------|---------------|---------------------|----------------------------------|------------------|------------------------|---------------------------------------|--|------|------|------|------|--------------------------------------|--------------------------------------|
| | | 转速 r/min | 电 流 Current A | 负载持续率 Load Duration FC (%) | 转差率 Slip % | 效率 Eff. η % | 功率因数 Power Factor $\cos\phi$ | 15% | 25% | 40% | 60% | 100% | | |
| | | | | | | | | | | | | | | |
| 同步转速 3000r/min | | | | | | | | | | | | | | |
| YH2-80M1-2 | 0.75 | 2670 | 1.9 | 60 | 11 | 71.0 | 0.86 | 1.0 | 0.9 | 0.8 | 0.75 | 0.65 | 5.5 | 2.7 |
| YH2-80M2-2 | 1.1 | 2670 | 2.6 | 60 | 11 | 73.0 | 0.87 | 1.5 | 1.3 | 1.2 | 1.1 | 1 | 5.5 | 2.7 |
| YH2-90S-2 | 1.5 | 2670 | 3.7 | 40 | 11 | 73.0 | 0.85 | 1.8 | 1.6 | 1.5 | 1.3 | 1.1 | 5.5 | 2.7 |
| YH2-90L-2 | 2.2 | 2670 | 5.1 | 40 | 11 | 75.5 | 0.86 | 2.7 | 2.4 | 2.2 | 2 | 1.8 | 5.5 | 2.7 |
| YH2-100L-2 | 3 | 2700 | 6.9 | 40 | 10 | 76.0 | 0.87 | 3.8 | 3.3 | 3 | 2.7 | 2.4 | 5.5 | 2.7 |
| YH2-112M-2 | 4 | 2730 | 8.8 | 40 | 9 | 77.5 | 0.89 | 5.0 | 4.4 | 4 | 3.6 | 3.2 | 5.5 | 2.7 |
| YH2-132S1-2 | 5.5 | 2730 | 11.9 | 40 | 9 | 78.0 | 0.90 | 7.0 | 6 | 5.5 | 5 | 4.4 | 5.5 | 2.7 |
| YH2-132S2-2 | 7.5 | 2730 | 16.0 | 25 | 9 | 78.5 | 0.91 | 8.5 | 7.5 | 6.7 | 6 | 5.3 | 5.5 | 2.7 |
| YH2-160M1-2 | 11 | 2760 | 22.9 | 25 | 8 | 81.0 | 0.90 | 12.5 | 11 | 9.8 | 8.8 | 7.8 | 5.5 | 2.7 |
| YH2-160M2-2 | 15 | 2760 | 30.5 | 25 | 8 | 82.0 | 0.91 | 17.0 | 15 | 13.5 | 12 | 10.6 | 5.5 | 2.7 |
| YH2-160L-2 | 18.5 | 2760 | 37.4 | 25 | 8 | 82.5 | 0.91 | 21.0 | 18.5 | 16.5 | 14.5 | 13 | 5.5 | 2.7 |
| 同步转速 1500r/min | | | | | | | | | | | | | | |
| YH2-80M1-4 | 0.55 | 1305 | 1.7 | 60 | 13 | 66.5 | 0.76 | 0.75 | 0.65 | 0.6 | 0.55 | 0.48 | 5.5 | 2.7 |
| YH2-80M2-4 | 0.75 | 1305 | 2.2 | 60 | 13 | 68.0 | 0.77 | 1.0 | 0.9 | 0.8 | 0.75 | 0.66 | 5.5 | 2.7 |
| YH2-90S-4 | 1.1 | 1305 | 3.0 | 60 | 13 | 70.0 | 0.80 | 1.5 | 1.4 | 1.2 | 1.1 | 1 | 5.5 | 2.7 |
| YH2-90L-4 | 1.5 | 1305 | 4.0 | 60 | 13 | 72.0 | 0.80 | 2.0 | 1.8 | 1.6 | 1.5 | 1.3 | 5.5 | 2.7 |
| YH2-100L1-4 | 2.2 | 1305 | 5.5 | 40 | 13 | 73.0 | 0.83 | 2.8 | 2.5 | 2.2 | 2 | 1.8 | 5.5 | 2.7 |
| YH2-100L2-4 | 3 | 1305 | 7.4 | 40 | 13 | 74.0 | 0.83 | 3.8 | 3.3 | 3.0 | 2.7 | 2.4 | 5.5 | 2.7 |
| YH2-112M-4 | 4 | 1335 | 9.5 | 40 | 11 | 77.0 | 0.83 | 5.0 | 4.5 | 4.0 | 3.6 | 3.2 | 5.5 | 2.7 |
| YH2-132S-4 | 5.5 | 1350 | 12.5 | 40 | 10 | 77.5 | 0.86 | 7.0 | 6 | 5.5 | 5 | 4.3 | 5.5 | 2.7 |

性能数据 Performance Data

380V 50Hz

| 型号 Type | 功率 kW | 满载时 Full Load | | | | | | 在下列 FC 下的输出功率 kW The output at different FC | | | | | 堵转电流 额定电流 LRC I _N | 堵转转矩 额定转矩 T _{st} T _N |
|-----------------|----------|---------------|---------------------|------------------------------------|------------------|------------------|---------------------------------|--|------|------|------|------|---------------------------------------|---|
| | | 转速 r/min | 电 流 Current A | 负载持续率 Load Duration FC (%) | 转差率 Slip % | 效率 Eff. η% | 功率因数 Power Factor cosΦ | 15% | 25% | 40% | 60% | 100% | | |
| | | | | | | | | | | | | | | |
| 同步转速 1500r/min | | | | | | | | | | | | | | |
| YH2-132M-4 | 7.5 | 1350 | 16.8 | 40 | 10 | 78.0 | 0.87 | 9.5 | 8.4 | 7.5 | 6.6 | 6 | 5.5 | 2.7 |
| YH2-160M-4 | 11 | 1365 | 24.3 | 25 | 9 | 80.0 | 0.86 | 12.5 | 11 | 9.8 | 8.8 | 7.6 | 5.5 | 2.6 |
| YH2-160L-4 | 15 | 1380 | 32.3 | 25 | 8 | 82.0 | 0.86 | 16.0 | 15 | 13 | 11.5 | 10 | 5.5 | 2.6 |
| YH2-180M-4 | 18.5 | 1380 | 38.5 | 25 | 8 | 82.0 | 0.89 | 21.0 | 18.5 | 16.5 | 14.8 | 13 | 5.5 | 2.6 |
| YH2-180L-4 | 22 | 1380 | 45.3 | 25 | 8 | 83.0 | 0.89 | 25.0 | 22 | 20 | 17.8 | 15.8 | 5.5 | 2.6 |
| YH2-200L-4 | 30 | 1380 | 61.0 | 25 | 8 | 84.0 | 0.89 | 34.0 | 30 | 27 | 24 | 21 | 5.5 | 2.6 |
| YH2-225S-4 | 37 | 1395 | 74.4 | 25 | 7 | 84.0 | 0.90 | 42.0 | 37 | 33 | 29 | 25 | 5.5 | 2.6 |
| YH2-225M-4 | 45 | 1395 | 88.9 | 25 | 7 | 84.5 | 0.91 | 51.0 | 45 | 40 | 35 | 30 | 5.5 | 2.6 |
| YH2-250M-4 | 55 | 1395 | 108 | 25 | 7 | 86.0 | 0.90 | 62.0 | 55 | 49 | 43 | 37 | 5.5 | 2.6 |
| YH2-280S-4 | 75 | 1395 | 144 | 15 | 7 | 86.0 | 0.92 | 75.0 | 66 | 59 | 52 | 45 | 5.5 | 2.6 |
| YH2-280M-4 | 90 | 1395 | 172 | 15 | 7 | 86.5 | 0.92 | 90.0 | 79 | 70 | 62 | 54 | 5.5 | 2.6 |
| YH2-315S-4 | 110 | 1395 | 204 | 15 | 7 | 89.0 | 0.92 | 110 | 97 | 86 | 76 | 66 | 6.5 | 2.5 |
| YH2-315M-4 | 132 | 1403 | 244 | 15 | 6.5 | 89.5 | 0.92 | 132 | 116 | 103 | 91 | 79 | 6.5 | 2.5 |
| YH2-315L1-4 | 160 | 1403 | 294 | 15 | 6.5 | 89.9 | 0.92 | 160 | 141 | 125 | 110 | 96 | 6.5 | 2.5 |
| YH2-315L-4 | 185 | 1403 | 339 | 15 | 6.5 | 90.1 | 0.92 | 185 | 163 | 144 | 128 | 111 | 6.5 | 2.5 |
| YH2-315L2-4 | 200 | 1403 | 361 | 15 | 6.5 | 90.4 | 0.93 | 200 | 176 | 156 | 138 | 120 | 6.5 | 2.5 |
| YH2-355M1-4 | 220 | 1410 | 397 | 15 | 6 | 90.6 | 0.93 | 220 | 194 | 172 | 152 | 132 | 6.5 | 2.4 |
| YH2-355M-4 | 250 | 1410 | 449 | 15 | 6 | 90.9 | 0.93 | 250 | 220 | 195 | 173 | 150 | 6.5 | 2.4 |
| YH2-355L1-4 | 280 | 1410 | 502 | 15 | 6 | 91.1 | 0.93 | 280 | 246 | 218 | 193 | 168 | 6.5 | 2.4 |
| YH2-355L-4 | 315 | 1410 | 564 | 15 | 6 | 91.3 | 0.93 | 315 | 277 | 246 | 217 | 189 | 6.5 | 2.4 |
| 同步转速 1000 r/min | | | | | | | | | | | | | | |
| YH2-90S-6 | 0.75 | 870 | 2.5 | 60 | 13 | 65.5 | 0.69 | 1.0 | 0.9 | 0.8 | 0.75 | 0.6 | 5 | 2.7 |
| YH2-90L-6 | 1.1 | 870 | 3.5 | 60 | 13 | 66.0 | 0.72 | 1.5 | 1.3 | 1.2 | 1.1 | 0.9 | 5 | 2.7 |
| YH2-100L-6 | 1.5 | 880 | 4.3 | 40 | 12 | 69.5 | 0.76 | 1.9 | 1.7 | 1.5 | 1.3 | 1.1 | 5 | 2.7 |
| YH2-112M-6 | 2.2 | 880 | 6.0 | 40 | 12 | 73.0 | 0.76 | 2.7 | 2.4 | 2.2 | 1.9 | 1.7 | 5 | 2.7 |
| YH2-132S-6 | 3 | 900 | 7.7 | 40 | 10 | 75.5 | 0.78 | 3.7 | 3.2 | 3 | 2.6 | 2.3 | 5 | 2.7 |
| YH2-132M1-6 | 4 | 900 | 10.0 | 40 | 10 | 77.0 | 0.79 | 5.0 | 4.3 | 4 | 3.5 | 3 | 5 | 2.7 |
| YH2-132M1-6 | 5.5 | 900 | 13.6 | 40 | 10 | 77.5 | 0.79 | 6.5 | 6 | 5.5 | 4.5 | 4 | 5 | 2.7 |
| YH2-160M-6 | 7.5 | 900 | 17.8 | 25 | 11 | 79.0 | 0.81 | 8.5 | 7.5 | 7 | 6 | 5 | 5 | 2.5 |
| YH2-160L-6 | 11 | 900 | 25.8 | 25 | 11 | 80.0 | 0.81 | 12.5 | 11 | 10 | 8.5 | 7.5 | 5 | 2.5 |
| YH2-180L-6 | 15 | 910 | 33.5 | 25 | 9 | 82.0 | 0.83 | 17.0 | 15 | 13.5 | 11.5 | 10 | 5 | 2.5 |
| YH2-200L1-6 | 18.5 | 920 | 39.9 | 25 | 8 | 82.0 | 0.86 | 21.0 | 18.5 | 17 | 14.5 | 12.5 | 5 | 2.5 |
| YH2-200L2-6 | 22 | 920 | 46.6 | 25 | 8 | 82.5 | 0.87 | 25.0 | 22 | 20 | 17 | 15 | 5 | 2.5 |
| YH2-225M-6 | 30 | 920 | 63.1 | 25 | 8 | 83.0 | 0.87 | 34.0 | 30 | 27 | 23 | 20 | 5.5 | 2.5 |
| YH2-250M-6 | 37 | 930 | 75.2 | 25 | 7 | 84.0 | 0.89 | 42.0 | 37 | 34 | 29 | 25 | 5.5 | 2.5 |
| YH2-280S-6 | 45 | 930 | 90.9 | 25 | 7 | 84.5 | 0.89 | 51.0 | 45 | 41 | 35 | 31 | 5.5 | 2.5 |

性能数据 Performance Data

380V 50Hz

| 型号 Type | 功率 kW | 满载时 Full Load | | | | | | 在下列 FC 下的输出功率 kW The output at different FC | | | | | 堵转电流 额定电流 $\frac{I_{LRC}}{I_N}$ | 堵转转矩 额定转矩 $\frac{T_{st}}{T_N}$ |
|----------------|----------|---------------|---------------------|----------------------------------|------------------|------------------------|---------------------------------------|--|------|------|------|------|---------------------------------------|--------------------------------------|
| | | 转速 r/min | 电 流 Current A | 负载持续率 Load Duration FC (%) | 转差率 Slip % | 效率 Eff. η % | 功率因数 Power Factor $\cos\Phi$ | 15% | 25% | 40% | 60% | 100% | | |
| | | | | | | | | 15% | 25% | 40% | 60% | 100% | | |
| 同步转速 1000r/min | | | | | | | | | | | | | | |
| YH2-280M-6 | 55 | 930 | 111 | 25 | 7 | 85.0 | 0.89 | 62.0 | 55 | 50 | 42 | 37 | 5.5 | 2.5 |
| YH2-315S-6 | 75 | 930 | 142 | 15 | 7 | 89.0 | 0.90 | 75 | 66 | 60 | 52 | 45 | 6.0 | 2.4 |
| YH2-315M-6 | 90 | 930 | 170 | 15 | 7 | 89.4 | 0.90 | 90 | 79 | 72 | 62 | 54 | 6.0 | 2.4 |
| YH2-315L1-6 | 110 | 935 | 207 | 15 | 6.5 | 89.8 | 0.90 | 110 | 97 | 88 | 76 | 66 | 6.0 | 2.4 |
| YH2-315L2-6 | 132 | 935 | 244 | 15 | 6.5 | 90.3 | 0.91 | 132 | 116 | 106 | 91 | 79 | 6.0 | 2.4 |
| YH2-355M1-6 | 160 | 935 | 295 | 15 | 6.5 | 90.5 | 0.91 | 160 | 141 | 128 | 110 | 96 | 6.0 | 2.3 |
| YH2-355M-6 | 185 | 935 | 340 | 15 | 6.5 | 90.8 | 0.91 | 185 | 163 | 148 | 128 | 111 | 6.0 | 2.3 |
| YH2-355M2-6 | 200 | 940 | 363 | 15 | 6 | 91.0 | 0.92 | 200 | 176 | 160 | 138 | 120 | 6.0 | 2.3 |
| YH2-355L1-6 | 220 | 940 | 398 | 15 | 6 | 91.2 | 0.92 | 220 | 194 | 176 | 152 | 132 | 6.0 | 2.3 |
| YH2-355L-6 | 250 | 940 | 452 | 15 | 6 | 91.3 | 0.92 | 250 | 220 | 200 | 173 | 150 | 6.0 | 2.3 |
| 同步转速 750 r/min | | | | | | | | | | | | | | |
| YH2-132S-8 | 2.2 | 660 | 6.3 | 60 | 12 | 73.0 | 0.73 | 3.2 | 2.8 | 2.7 | 2.2 | 1.9 | 4.5 | 2.6 |
| YH2-132M-8 | 3 | 660 | 8.2 | 60 | 12 | 74.0 | 0.75 | 4.0 | 3.8 | 3.7 | 3 | 2.6 | 4.5 | 2.6 |
| YH2-160M1-8 | 4 | 670 | 10.5 | 60 | 11 | 77.0 | 0.75 | 6.0 | 5.1 | 5 | 4 | 3.4 | 4.5 | 2.4 |
| YH2-160M2-8 | 5.5 | 670 | 13.9 | 60 | 11 | 78.0 | 0.77 | 8.1 | 7.1 | 6.5 | 5.5 | 4.7 | 4.5 | 2.4 |
| YH2-160L-8 | 7.5 | 670 | 18.5 | 60 | 11 | 79.0 | 0.78 | 10.1 | 8.7 | 8.5 | 7.5 | 6.5 | 4.5 | 2.4 |
| YH2-180L-8 | 11 | 675 | 27.3 | 25 | 10 | 76.5 | 0.80 | 12.5 | 11 | 10.5 | 8.5 | 7.2 | 4.5 | 2.4 |
| YH2-200L-8 | 15 | 685 | 36.8 | 25 | 9 | 77.5 | 0.80 | 17.0 | 15 | 14 | 11.5 | 10 | 4.5 | 2.4 |
| YH2-225S-8 | 18.5 | 685 | 45.1 | 25 | 9 | 80 | 0.78 | 21.0 | 18.5 | 18 | 14.5 | 12.5 | 4.5 | 2.4 |
| YH2-225M-8 | 22 | 685 | 51.6 | 25 | 9 | 81 | 0.80 | 25.0 | 22 | 21 | 17 | 14.5 | 4.5 | 2.4 |
| YH2-250M-8 | 30 | 690 | 67.4 | 25 | 8 | 81.5 | 0.83 | 34.0 | 30 | 29 | 23 | 20 | 4.5 | 2.4 |
| YH2-280S-8 | 37 | 690 | 84.6 | 25 | 8 | 82 | 0.81 | 42.0 | 37 | 35 | 28 | 24 | 4.5 | 2.4 |
| YH2-280M-8 | 45 | 690 | 100 | 25 | 8 | 82.5 | 0.83 | 52.0 | 45 | 43 | 34 | 29 | 4.5 | 2.4 |

常用的安装结构型式，以及适用的机座号见下表

Conventional mounting type and suitable frame size are given in following table (with “√”)

| 机座号 Frame | 基本安装结构 Basic Type | | | 派生的安装形式 Derived Type | | | | | | | | |
|--------------|----------------------|----|-----|-------------------------|----|----|----|----|----|----|-----|-----|
| | B3 | B5 | B35 | V1 | V3 | V5 | V6 | B6 | B7 | B8 | V15 | V36 |
| 80~160 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| 180~225 | √ | √ | √ | √ | - | - | - | - | - | - | - | - |
| 250~355 | √ | - | √ | √ | - | - | - | - | - | - | - | - |

注：1. “√”表示可以制造的结构型式

2. YH2 系列电机的安装尺寸同 YP2 系列电机基本一致。