

## YCT 系列电磁调速电机

[ YCT series adjustable-speed  
induction motor by electromagnetic clutch ]



YCT系列电磁调速电机是由拖动电机、电磁转差离合器和控制器三部分组成，通常和JD型或者ZTK型控制器配套使用。可用于恒转矩负载场合，特别适宜在递减转矩负载中使用（例如离心式水泵和风机），广泛应用于各类装配流水线、输送设备、注塑机、印刷机、水泵、风机、回转炉、卷板机、拉线机等工业设备。

YCT系列电磁调速电机可在规定的调速范围内均匀、连续地无极调速，并能输出额定转矩，电机在运行中负载转矩变动时，控制器的速度负反馈系统可自动调节离合器的励磁电流，使输出转速基本保持不变。

YCT series adjustable-speed induction motors by electromagnetic clutch are composed of driving motors, electromagnetic slip coupling and controller. YCT series motors are usually used under a constant torque load and are particularly suitable for the use under the load with a decreasing torque such as the centrifugal pump and fan. Main applications of the YCT series motors include assembly lines, transfer equipments, plastic injecting machines, printing machines, pumps, fans, wire calendars, drawing machines etc.

The speed of the YCT series motors can be adjusted continuously and steplessly within the specified adjustable speed range with an output of rated torque. When the loading torque is changed during the running of the motor, the exciting current of the coupling can be regulated automatically by the feedback system of the controller rapidly to remain the speed unchanged.

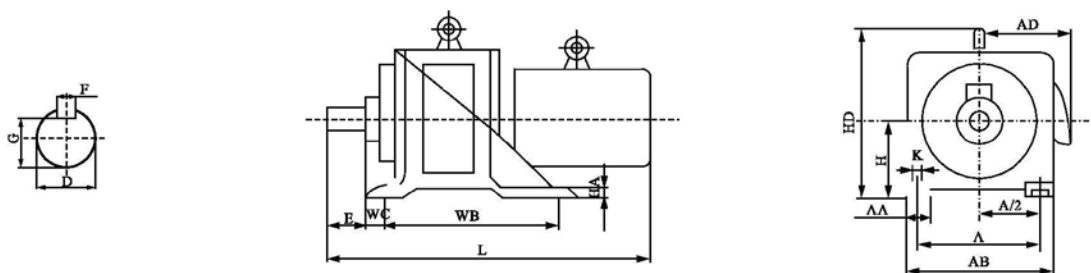
### ► YCT电机的主要特点 / Features of YCT series motor

- |                         |                                                                                 |
|-------------------------|---------------------------------------------------------------------------------|
| 1、调速范围广，速度调节平稳，可连续无极调速； | 1, Wide range of adjustable speed and stable speed adjustment;                  |
| 2、调速无失控区；               | 2, Adjustable speed controlled;                                                 |
| 3、具有快速反馈自动调节系统，转速变化率小；  | 3, Rapid feedback and automatic regulation system, small speed variation ratio; |
| 4、启动平稳，启动力矩大；           | 4, Large start torque and smooth start performance;                             |
| 5、结构简单、可靠、使用维护方便；       | 5, Simple construction, reliable and easy for operation and maintenance;        |
| 6、控制功率小，并能实现多种方式控制。     | 6, Small control power and multi-way to control.                                |

### ► YCT 系列电机技术参数 / Technical data – YCT series motor – 380V/50Hz

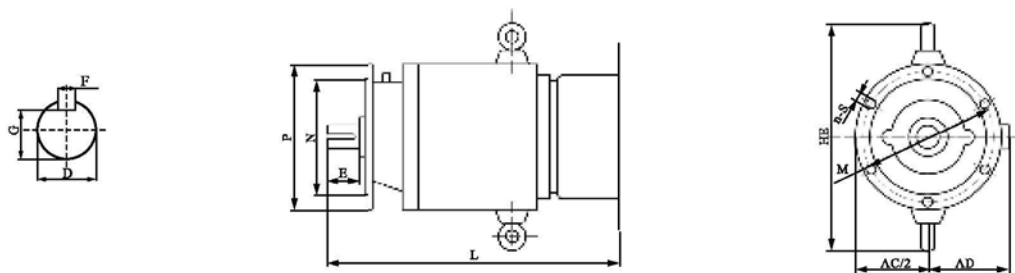
| 电机型号<br>Model | 额定功率<br>Rated Output |      | 额定转矩<br>Rated Torque<br>(Tn) | 调速范围<br>Speed Range | 励磁电压<br>Excitation<br>Voltage | 励磁电流<br>Excitation<br>Current | 噪 声<br>Noise | 重 量<br>Weight |
|---------------|----------------------|------|------------------------------|---------------------|-------------------------------|-------------------------------|--------------|---------------|
|               | kW                   | HP   | N.m                          | RPM                 | V                             | Amp                           | dB(A)        | Kg            |
| YCT-112-4A    | 0.55                 | 0.75 | 3.60                         | 1230 – 125          | < 90                          | < 1.3                         | 75           | 50            |
| YCT-112-4B    | 0.75                 | 1    | 4.90                         | 1230 – 125          | < 90                          | < 1.3                         | 75           | 55            |
| YCT-132-4A    | 1.1                  | 1.5  | 7.10                         | 1230 – 125          | < 90                          | < 1.3                         | 75           | 75            |
| YCT-132-4B    | 1.5                  | 2    | 9.70                         | 1230 – 125          | < 90                          | < 1.3                         | 78           | 77            |
| YCT-160-4A    | 2.2                  | 3    | 14.1                         | 1250 – 125          | < 90                          | < 1.5                         | 78           | 114           |
| YCT-160-4B    | 3                    | 4    | 19.2                         | 1250 – 125          | < 90                          | < 1.5                         | 82           | 117           |
| YCT-180-4A    | 4                    | 5.5  | 25.2                         | 1250 – 125          | < 90                          | < 1.5                         | 82           | 157           |
| YCT-200-4A    | 5.5                  | 7.5  | 35.1                         | 1250 – 125          | < 90                          | < 2.0                         | 82           | 224           |
| YCT-200-4B    | 7.5                  | 10   | 47.7                         | 1250 – 125          | < 90                          | < 2.0                         | 86           | 234           |
| YCT-225-4A    | 11                   | 15   | 69.1                         | 1250 – 125          | < 90                          | < 2.5                         | 86           | 340           |
| YCT-225-4B    | 15                   | 20   | 94.3                         | 1250 – 125          | < 90                          | < 2.5                         | 90           | 360           |
| YCT-250-4A    | 18.5                 | 25   | 110.0                        | 1320 – 132          | < 90                          | < 3.0                         | 90           | 460           |
| YCT-250-4B    | 22                   | 30   | 137.0                        | 1320 – 132          | < 90                          | < 3.0                         | 90           | 500           |
| YCT-280-4A    | 30                   | 40   | 189.0                        | 1320 – 132          | < 90                          | < 3.5                         | 97           | 630           |
| YCT-315-4A    | 37                   | 50   | 232.0                        | 1320 – 132          | < 90                          | < 4.5                         | 97           | 870           |
| YCT-315-4B    | 45                   | 60   | 282.0                        | 1320 – 132          | < 90                          | < 4.5                         | 99           | 910           |
| YCT-355-4A    | 55                   | 75   | 344.0                        | 1340 – 440          | < 90                          | < 4.5                         | 99           | 1300          |
| YCT-355-4B    | 75                   | 100  | 469.0                        | 1340 – 600          | < 90                          | < 4.5                         | 103          | 1550          |
| YCT-355-4C    | 90                   | 120  | 564.0                        | 1340 – 600          | < 90                          | < 4.5                         | 103          | 1650          |

► YCT系列电机安装尺寸及外形尺寸 / Dimensions of YCT series motor



| 电机型号<br>Model | 安装尺寸 Mounting Dimensions |       |     |     |    |     |    |      |     |      | 外形尺寸 Overall Dimensions |     |     |     |      |
|---------------|--------------------------|-------|-----|-----|----|-----|----|------|-----|------|-------------------------|-----|-----|-----|------|
|               | A                        | A/2   | WB  | WC  | D  | E   | F  | G    | H   | K    | AB                      | AC  | AD  | HD  | L    |
| YCT-112-4A    | 190                      | 95    | 210 | 40  | 19 | 40  | 6  | 15.5 | 112 | 12   | 240                     | 260 | 150 | 280 | 520  |
| YCT-112-4B    | 190                      | 95    | 210 | 40  | 19 | 40  | 6  | 15.5 | 112 | 12   | 240                     | 260 | 150 | 280 | 520  |
| YCT-132-4A    | 216                      | 108   | 241 | 40  | 24 | 50  | 8  | 20   | 132 | 12   | 285                     | 310 | 165 | 330 | 570  |
| YCT-132-4B    | 216                      | 108   | 241 | 40  | 24 | 50  | 8  | 20   | 132 | 12   | 285                     | 310 | 165 | 330 | 585  |
| YCT-160-4A    | 254                      | 127   | 267 | 45  | 28 | 60  | 8  | 24   | 160 | 14.5 | 330                     | 350 | 185 | 385 | 665  |
| YCT-160-4B    | 254                      | 127   | 267 | 45  | 28 | 60  | 8  | 24   | 160 | 14.5 | 330                     | 350 | 185 | 385 | 665  |
| YCT-180-4A    | 279                      | 139.5 | 305 | 45  | 28 | 60  | 8  | 24   | 180 | 14.5 | 365                     | 385 | 195 | 430 | 700  |
| YCT-200-4A    | 318                      | 159   | 356 | 50  | 38 | 80  | 10 | 33   | 200 | 18.5 | 410                     | 430 | 235 | 485 | 820  |
| YCT-200-4B    | 318                      | 159   | 356 | 50  | 38 | 80  | 10 | 33   | 200 | 18.5 | 410                     | 430 | 235 | 485 | 860  |
| YCT-225-4A    | 356                      | 178   | 406 | 56  | 42 | 110 | 12 | 37   | 225 | 18.5 | 465                     | 485 | 270 | 545 | 980  |
| YCT-225-4B    | 356                      | 178   | 406 | 56  | 42 | 110 | 12 | 37   | 225 | 18.5 | 465                     | 485 | 270 | 545 | 1025 |
| YCT-250-4A    | 406                      | 203   | 457 | 63  | 48 | 110 | 14 | 42.5 | 250 | 24   | 520                     | 540 | 295 | 595 | 1130 |
| YCT-250-4B    | 406                      | 203   | 457 | 63  | 48 | 110 | 14 | 42.5 | 250 | 24   | 520                     | 540 | 295 | 595 | 1170 |
| YCT-280-4A    | 457                      | 228.5 | 508 | 70  | 55 | 110 | 16 | 49   | 280 | 24   | 575                     | 595 | 320 | 665 | 1280 |
| YCT-315-4A    | 508                      | 254   | 560 | 89  | 60 | 140 | 18 | 53   | 315 | 28   | 645                     | 670 | 345 | 770 | 1400 |
| YCT-315-4B    | 508                      | 254   | 560 | 89  | 60 | 140 | 18 | 53   | 315 | 28   | 645                     | 670 | 345 | 770 | 1425 |
| YCT-355-4A    | 610                      | 305   | 630 | 108 | 65 | 140 | 18 | 58   | 355 | 28   | 755                     | 780 | 390 | 890 | 1550 |
| YCT-355-4B    | 610                      | 305   | 630 | 108 | 75 | 140 | 20 | 67.5 | 355 | 28   | 755                     | 780 | 420 | 890 | 1630 |
| YCT-355-4C    | 610                      | 305   | 630 | 108 | 75 | 140 | 20 | 67.5 | 355 | 28   | 755                     | 780 | 420 | 890 | 1680 |

### ► YCTL系列电机安装尺寸及外形尺寸 / Dimensions of YCTL series motor



| 电机型号<br>Model | 安装尺寸 Mounting Dimensions |     |    |      |     |     |     |     |   |    |   | 外形尺寸 Overall Dimensions |      |      |      |
|---------------|--------------------------|-----|----|------|-----|-----|-----|-----|---|----|---|-------------------------|------|------|------|
|               | D                        | E   | F  | G    | M   | N   | P   | T   | R | S  | n | AD                      | AC/2 | HD   | L    |
| YCTL-112-4A   | 19                       | 40  | 6  | 15.5 | 165 | 130 | 200 | 3.5 | 0 | 12 | 4 | 150                     | 112  | 320  | 540  |
| YCTL-112-4B   | 19                       | 40  | 6  | 15.5 | 165 | 130 | 200 | 3.5 | 0 | 12 | 4 | 150                     | 112  | 320  | 540  |
| YCTL-132-4A   | 24                       | 50  | 8  | 20   | 165 | 130 | 200 | 3.5 | 0 | 12 | 4 | 158                     | 132  | 390  | 570  |
| YCTL-132-4B   | 24                       | 50  | 8  | 20   | 165 | 130 | 200 | 3.5 | 0 | 12 | 4 | 158                     | 132  | 390  | 595  |
| YCTL-160-4A   | 28                       | 60  | 8  | 24   | 215 | 180 | 250 | 4   | 0 | 15 | 4 | 185                     | 160  | 425  | 645  |
| YCTL-160-4B   | 28                       | 60  | 8  | 24   | 215 | 180 | 250 | 4   | 0 | 15 | 4 | 185                     | 160  | 425  | 665  |
| YCTL-180-4A   | 28                       | 60  | 8  | 24   | 215 | 180 | 250 | 4   | 0 | 15 | 4 | 188                     | 180  | 480  | 685  |
| YCTL-200-4A   | 38                       | 80  | 10 | 33   | 265 | 230 | 300 | 5   | 0 | 19 | 8 | 230                     | 200  | 530  | 805  |
| YCTL-200-4B   | 38                       | 80  | 10 | 33   | 265 | 230 | 300 | 5   | 0 | 19 | 8 | 230                     | 200  | 530  | 845  |
| YCTL-225-4A   | 42                       | 110 | 12 | 37   | 300 | 250 | 350 | 5   | 0 | 19 | 8 | 255                     | 225  | 610  | 965  |
| YCTL-225-4B   | 42                       | 110 | 12 | 37   | 300 | 250 | 350 | 5   | 0 | 19 | 8 | 255                     | 225  | 610  | 1010 |
| YCTL-250-4A   | 48                       | 110 | 14 | 42.5 | 300 | 250 | 350 | 5   | 0 | 19 | 8 | 285                     | 250  | 670  | 1130 |
| YCTL-250-4B   | 48                       | 110 | 14 | 42.5 | 300 | 250 | 350 | 5   | 0 | 19 | 8 | 285                     | 250  | 670  | 1170 |
| YCTL-280-4A   | 55                       | 110 | 16 | 49   | 300 | 500 | 500 | 5   | 0 | 24 | 8 | 320                     | 280  | 730  | 1260 |
| YCTL-315-4A   | 60                       | 140 | 18 | 53   | 450 | 550 | 550 | 5   | 0 | 24 | 8 | 345                     | 315  | 815  | 1400 |
| YCTL-315-4B   | 60                       | 140 | 18 | 53   | 500 | 550 | 550 | 5   | 0 | 24 | 8 | 345                     | 315  | 815  | 1425 |
| YCTL-355-4A   | 65                       | 140 | 18 | 58   | 660 | 800 | 800 | 6   | 0 | 24 | 8 | 385                     | 355  | 1030 | 1500 |
| YCTL-355-4B   | 75                       | 140 | 20 | 67.5 | 740 | 800 | 800 | 6   | 0 | 24 | 8 | 410                     | 355  | 1030 | 1630 |
| YCTL-355-4C   | 75                       | 140 | 20 | 67.5 | 660 | 800 | 800 | 6   | 0 | 24 | 8 | 410                     | 355  | 1030 | 1660 |