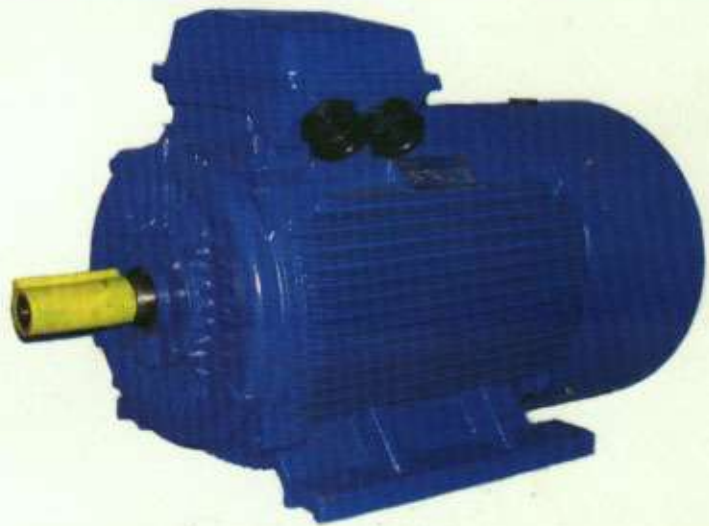
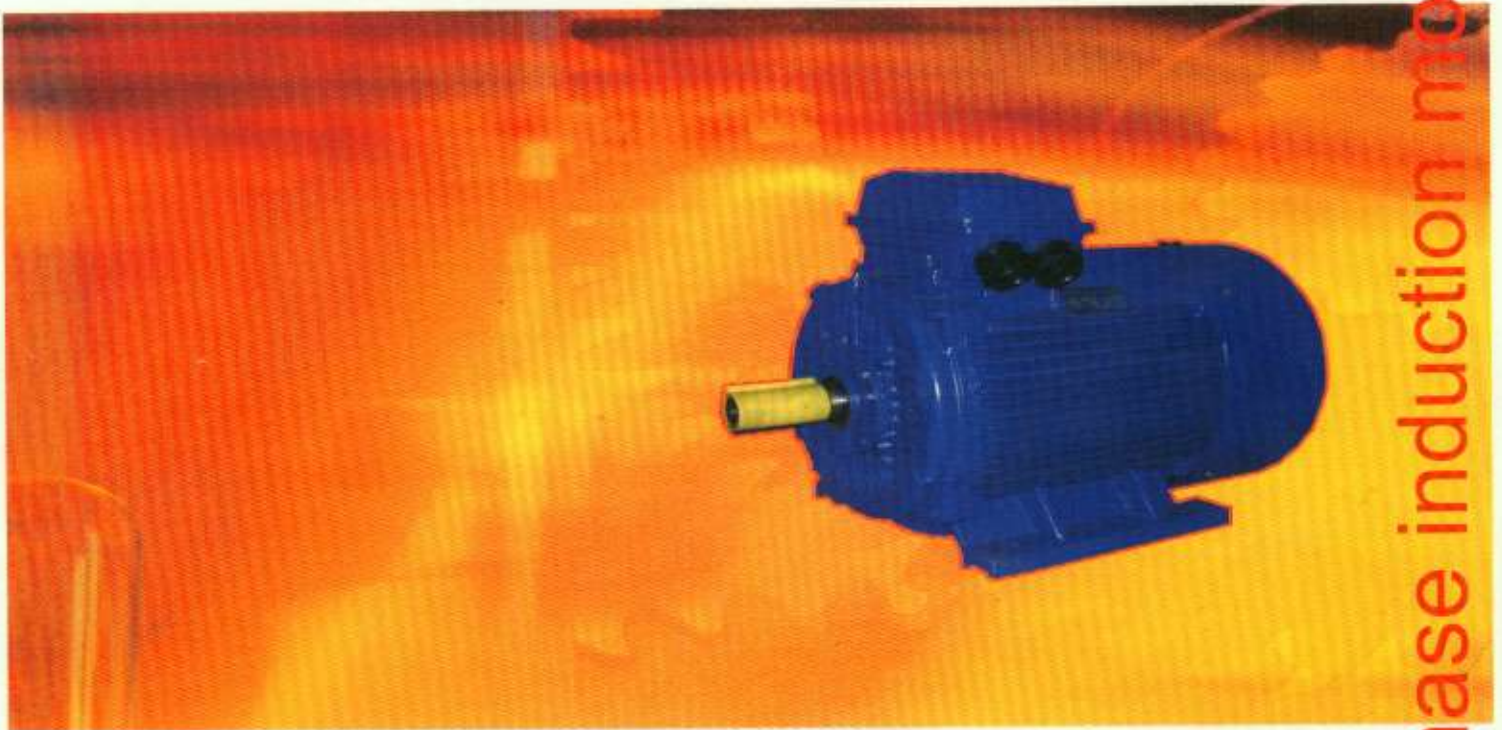


# YUEMA<sup>®</sup>

EFF2

## Y3 series & Y3A series



Three phase induction motors

ZHEJIANG YUEMA ELECTRICAL MACHINERY STOCK CO.,LTD



# Y3 - Series Three-Phase Induction Motor

## PREFACE

Located in zhejiang provience , China Zhejiang Yuema Electrical machinery Stock Co.,Ltd. enjoys convenient transportation by water, Land and air. our company is a Chinese main manufacture specialized in the manufacture of small & medium sized electrical machinery.

With a powerful scientific and technical force, advanced developing mode, hi-efficiency production facilities, complete testing conditions and consummate modernized management system, our company, all of whose products have been conformed to the IEC standards, has obtained the quality license issued by national engine exporting commission, the ISO9001 international quality conformity, the USA BQR attestation and CE conformity. Whatis more, we have owned direct importing and exporting rights approved by China government.

Our main products include YU - Series three-phase asynchronous electric motor, Y3 series three-phase asynchronous electric motor, NEMA standart & hi-efficiency asynchronous electric motor, YUEJ & Y3EJ electromagnetic braking electric motor, YD? YDT pole - changing multi-speed electric motor, YU , Y3-WF series outdoor corrosion-proof electric motor, Y3A series alumunium three-phase electric motor, YC,YL & YY series alumunium single-phase motors, YB flame-proof three-phase electric motors, gear reducing motors and various special motors. the co., with more than 500 varieties of specifications, has most complete categories and highest productivity among the same line in China. Our variuos motors have been exported to over 30 countries and regions, such as Australia, North America, South America, Middle East, Southeast Asia and European Countries including Germany, Italy, UK, Belgium, Spain, Greece and so on, enjoying high reputation at home and abroad.

Outstanding innovative idea, excellent product quality and faithful service attitude is our permanent objective and solemn promise.

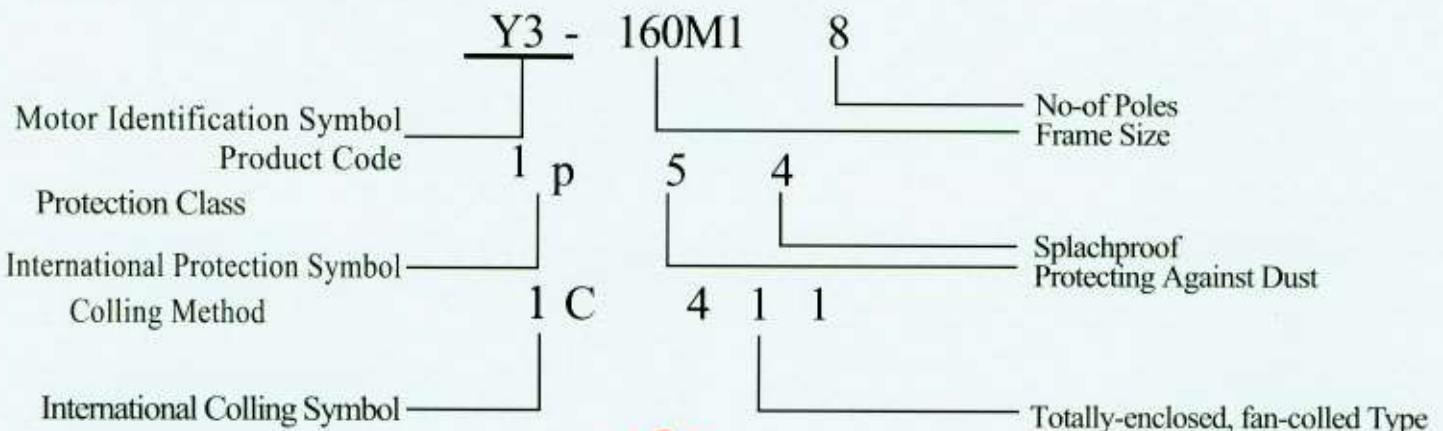
## GENERALIZATION

Y3 series three-phase asynchronous electric motors, developed with new techniques, are a latest series with the efficiency in strict conformity to EFF2 standard in europe.

Y3 series motors are defined as totally enclosed, fancooled, squirrel cage type and have such good features as novel design, beautiful modeling, low noise, high efficiency, large torque, excellent starting performance, compact structure, easy serving and etc. they are adopted with F class insulation and designed with assessing method for insulation system according to international practice. It greatly enhances motoris safety and reliability. therefore, these motors have reached an international advanced level of such kind of products.

Y3 series motors can be widely used as driving equipments of various machineries, such as machine tools, blowers, pumps, compressors, transporters, agricultural and food processing.

## DESIGNATION



## Operating condition

Ambient temperatur:  $-15^{\circ}\text{C} < 0 < 40^{\circ}\text{C}$

Altitude : Altitude should be lower than 1000 metres above sea level

Rated voltage : 380V.

Rated frequency : 50Hz

Connection : Star-Connection for 3kw or less whereas delta-connection for 4kw or more.

Duty/rating : Countinous(S1).

Insulation class : F. The temperature rise of the stator winding is examined at 80k ( by resistance method ).

Protection class : The main body of the motor is IP54,

But the terminal box reaches IP55.

Cooling method : IC411.

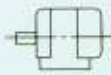





## Introduction of stucture


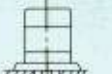



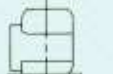
This series motors amount to the fifteenth frame sizes. among of them, the frames and end-shields of the frame size from H 63 to H 132 are made of cast iron or alumunium-alloy, and the frames of H160 or over are made of cast iron with sufficient mechanical strength. All cooling ribs of motors assume vertical of horizontal distribution. so, the motor entirely looks very beautiful.


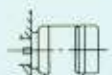

The terminal boxes are made of cast iron or alumunium-alloy die-casting for frame size H63 up to H280 or high strength cast iron for H315 up to H355 and located on the top of a side of the motor for offering users choose.

## Mounting arrangements

The mounting arrangements of the motors comply with IEC34-7 recommendation. there are four basic arrangement shown as the following tables and figures.

| Fundamental arrangement          | B3  |   |   |  |   |   |
|----------------------------------|---|---|---|--|---|---|
| Mounting arrangement             | B3  | B6  | B7  | B8   | V5  | V6  |
| Diagram                          |  |  |  |  |  |  |
| Range of Manufacture (Framesize) | 63-355  | 63-160  |   |  |   |   |

| Fundamental arrangement          | B5  |   |   | B35  |   |   |
|----------------------------------|---|---|---|--|---|---|
| Mounting arrangement             | V1  | V3  | B35   | V15  | V36   |   |
| Diagram                          |  |  |  |  |  |  |
| Range of Manufacture (Framesize) | 63-280  | 63-355  | 63-160  | 63-355   | 63-160  |   |

| Fundamental arrangement          | B5  |   |   |
|----------------------------------|---|---|---|
| Mounting arrangement             | B5  | B35   | V36   |
| Diagram                          |  |  |  |
| Range of Manufacture (Framesize) | 63-112  |   |   |





## Main data for terminal box

| Classified No | Frame Size | Max.f.l.amps | Entry hole size |
|---------------|------------|--------------|-----------------|
| 1             | H63-80     | 2.6          | 1xM20x1.5       |
| 2             | H90-100    | 6.8          | 1xM25X1.5       |
| 3             | H112-132   | 15.4         | 2xM32X1.5       |
| 4             | H160-180   | 42.5         | 2xM40X1.5       |
| 5             | H200-225   | 84.2         | 2xM50X1.5       |
| 6             | H250-280   | 166.6        | 2xM63X1.5       |
| 7             | H315       | 358          | 2xM63X1.5       |
| 8             | H355       | 546          | 2xM632X1.5      |

The fans are generally made of strengthen plastics other than that for frame sizes H 315 up to H 355 are made of aluminium-alloy or stamped with steel plate, All fan cowls are taken into shape by stretching with Cold rolled steel plate to become high mechanical strength.

## Bearing size

| Frame Size | P o l e s | Drive End | Non-Drive End |
|------------|-----------|-----------|---------------|
| 63         | 2 - 4     | 6201ZZC3  | 6201ZZC3      |
| 71         | 2 - 6     | 6202ZZC3  | 6202ZZC3      |
| 80         | 2 - 8     | 6204ZZC3  | 6204ZZC3      |
| 90         | 2 - 8     | 6205ZZC3  | 6205ZZC3      |
| 100        | 2 - 8     | 6206ZZC3  | 6206ZZC3      |
| 112        | 2 - 8     | 6306ZZC3  | 6206ZZC3      |
| 132        | 2 - 8     | 6308ZZC3  | 6208ZZC3      |
| 160        | 2         | 6309ZZC3  | 6309ZZC3      |
|            | 4 - 8     |           |               |
| 180        | 2         | 6311C3    | 6311C3        |
|            | 4 - 8     |           |               |
| 200        | 2         | 6312C3    | 6312C3        |
|            | 4 - 8     |           |               |
| 225        | 2         | 6313C3    | 6313C3        |
|            | 4 - 8     |           |               |
| 250        | 2         | 6314C3    | 6314C3        |
|            | 4 - 8     |           |               |
| 280        | 2         | 6314C3    | 6314C3        |
|            | 4 - 8     | 6317C3    | 6317C3        |
| 315        | 2         | 6317C3    | 6317C3        |
|            | 4 - 10    | NU319C3   | 6319C3        |
| 355        | 2         | 6319C3    | 6319C3        |
|            | 4 - 10    | NU3ZZC3   | 633ZZC3       |





## Y3 - Series Three-Phase Induction Motor

Speed 3000 rpm

380-420/220-240v Y/△ 50hz

660-725/380-420v Y/△ 50hz

Insulation class F, class B capability

| Output kw | Type        | Amps A | Speed r/min | Efficiency |      |      | Power factor |      |      | RT N.M | LRT | BDT | LRA | Noise L.db (A) | Moment of inertia | Weight kg |
|-----------|-------------|--------|-------------|------------|------|------|--------------|------|------|--------|-----|-----|-----|----------------|-------------------|-----------|
|           |             |        |             | 100%       | 75%  | 50%  | 100%         | 75%  | 50%  |        | RLT | RLT | RLA |                |                   |           |
| 0.18      | Y3. 631-2   | 0.5    | 2800        | 66         | 64   | 60   | 0.80         | 0.73 | 0.66 | 0.61   | 2.2 | 2.2 | 5.5 | 61             | 0.0031            | 14        |
| 0.25      | Y3. 632-2   | 0.66   | 2800        | 69         | 68.5 | 66   | 0.81         | 0.74 | 0.67 | 0.96   | 2.2 | 2.2 | 5.5 | 61             | 0.0004            | 14.5      |
| 0.37      | Y3. 711-2   | 0.94   | 2800        | 71         | 71   | 68.5 | 0.81         | 0.75 | 0.66 | 1.26   | 2.2 | 2.2 | 6.1 | 64             | 0.00055           | 15        |
| 0.55      | Y3. 712-2   | 1.33   | 2800        | 74         | 73   | 69.5 | 0.82         | 0.76 | 0.69 | 1.88   | 2.2 | 2.3 | 6.1 | 64             | 0.0006            | 15.5      |
| 0.75      | Y3. 801-2   | 1.73   | 2825        | 76.2       | 75.7 | 72.3 | 0.83         | 0.78 | 0.69 | 2.54   | 2.2 | 2.3 | 6.1 | 67             | 0.00075           | 16.5      |
| 1.1       | Y3. 802-2   | 2.46   | 2825        | 79.3       | 80   | 78.2 | 0.84         | 0.82 | 0.72 | 3.72   | 2.2 | 2.3 | 7.0 | 67             | 0.0009            | 17.5      |
| 1.5       | Y3. 90S-2   | 3.26   | 2840        | 80.4       | 80.2 | 77.3 | 0.84         | 0.80 | 0.70 | 5.04   | 2.2 | 2.3 | 7.0 | 72             | 0.0012            | 21        |
| 2.2       | Y3. 90L-2   | 4.61   | 2840        | 81.6       | 82.7 | 81.6 | 0.87         | 0.84 | 0.74 | 7.40   | 2.2 | 2.3 | 7.0 | 72             | 0.0014            | 25        |
| 3         | Y3. 100L-2  | 6.01   | 2880        | 83.4       | 83.4 | 81.3 | 0.88         | 0.85 | 0.76 | 9.95   | 2.2 | 2.3 | 7.5 | 76             | 0.0029            | 33        |
| 4         | Y3. 112M-2  | 7.69   | 2890        | 85.5       | 85.5 | 83.5 | 0.89         | 0.85 | 0.76 | 13.22  | 2.2 | 2.3 | 7.5 | 77             | 0.0055            | 41        |
| 5.5       | Y3. 132S1-2 | 10.5   | 2900        | 85.7       | 84.5 | 81.5 | 0.88         | 0.88 | 0.82 | 18.11  | 2.2 | 2.3 | 7.5 | 80             | 0.0109            | 63        |
| 7.5       | Y3. 132S2-2 | 14.2   | 2900        | 87         | 86.9 | 85.3 | 0.90         | 0.89 | 0.84 | 24.70  | 2.2 | 2.3 | 7.5 | 80             | 0.0126            | 70        |
| 11        | Y3. 160M1-2 | 20.2   | 2930        | 88.4       | 87.4 | 85.3 | 0.89         | 0.87 | 0.83 | 35.85  | 2.2 | 2.3 | 7.5 | 86             | 0.0377            | 110       |
| 15        | Y3. 160M2-2 | 27.4   | 2930        | 89.4       | 88.5 | 86.2 | 0.89         | 0.88 | 0.83 | 48.89  | 2.2 | 2.3 | 7.5 | 86             | 0.0499            | 120       |
| 18.5      | Y3. 160L-2  | 32.9   | 2930        | 90.5       | 90.2 | 88.6 | 0.91         | 0.90 | 0.87 | 60.30  | 2.2 | 2.3 | 7.5 | 86             | 0.055             | 135       |
| 22        | Y3. 180M-2  | 38.9   | 2940        | 90.5       | 89.9 | 87.7 | 0.90         | 0.89 | 0.85 | 71.46  | 2.0 | 2.3 | 7.5 | 89             | 0.075             | 165       |
| 30        | Y3. 200L1-2 | 52.7   | 2950        | 91.4       | 90.3 | 87.7 | 0.85         | 0.83 | 0.75 | 97.12  | 2.0 | 2.3 | 7.5 | 92             | 0.124             | 218       |
| 37        | Y3. 200L2-2 | 64.5   | 2950        | 92         | 91.2 | 89.3 | 0.89         | 0.87 | 0.81 | 119.78 | 2.0 | 2.3 | 7.5 | 92             | 0.139             | 230       |
| 45        | Y3. 225M-2  | 78.2   | 2970        | 92.5       | 90.9 | 88.4 | 0.89         | 0.88 | 0.84 | 144.70 | 2.0 | 2.3 | 7.5 | 92             | 0.233             | 280       |
| 55        | Y3. 250M-2  | 95.9   | 2970        | 93         | 91.9 | 89.2 | 0.86         | 0.84 | 0.78 | 176.85 | 2.0 | 2.3 | 7.5 | 93             | 0.312             | 365       |
| 75        | Y3. 280S-2  | 127.3  | 2970        | 93.6       | 93.1 | 91.5 | 0.90         | 0.88 | 0.84 | 241.16 | 2.0 | 2.3 | 7.5 | 94             | 0.579             | 495       |
| 90        | Y3. 280M-2  | 152    | 2970        | 94.1       | 93.1 | 92.1 | 0.90         | 0.87 | 0.85 | 289.39 | 2.0 | 2.3 | 7.5 | 94             | 0.675             | 565       |
| 110       | Y3. 315S-2  | 185.3  | 2980        | 94.4       | 93.9 | 92.4 | 0.90         | 0.87 | 0.82 | 352.51 | 1.8 | 2.2 | 7.1 | 96             | 1.18              | 890       |
| 132       | Y3. 315M-2  | 221.4  | 2980        | 94.8       | 94.3 | 92.8 | 0.88         | 0.85 | 0.80 | 423.02 | 1.8 | 2.2 | 7.1 | 96             | 1.82              | 980       |
| 160       | Y3. 315L1-2 | 265    | 2980        | 95         | 94.5 | 93   | 0.91         | 0.88 | 0.82 | 512.75 | 1.8 | 2.2 | 7.1 | 99             | 2.08              | 1055      |
| 200       | Y3. 315L2-2 | 330    | 2980        | 95         | 94.5 | 93   | 0.90         | 0.88 | 0.82 | 640.94 | 1.8 | 2.2 | 7.1 | 99             | 2.38              | 1110      |
| 250       | Y3. 355M-2  | 411    | 2985        | 95         | 94   | 92.5 | 0.90         | 0.88 | 0.81 | 799.94 | 1.8 | 2.2 | 7.1 | 103            | 3.00              | 1900      |
| 315       | Y3. 355L-2  | 517    | 2985        | 95.2       | 95.2 | 94   | 0.91         | 0.89 | 0.81 | 100.79 | 1.8 | 2.2 | 7.1 | 103            | 3.50              | 2300      |



Speed 1500 rpm

380-420/220-240v Y/△ 50hz  
 660-725/380-420v Y/△ 50hz  
 Insulation class F, class B capability

| Output kw | Type       | Amps A | Speed r/min | Efficiency |      |      | Power factor |      |      | N.M     | LRT | BDT | LRA | Noise L.db (A) | Moment of Inertia | Weight kg |
|-----------|------------|--------|-------------|------------|------|------|--------------|------|------|---------|-----|-----|-----|----------------|-------------------|-----------|
|           |            |        |             | 100%       | 75%  | 50%  | 100%         | 75%  | 50%  |         | RLT | RLT | RLA |                |                   |           |
| 0.37      | Y3.712-4   | 1.06   | 1400        | 69.3       | 71.0 | 68.4 | 0.76         | 0.65 | 0.52 | 2.54    | 2.1 | 2.2 | 5.2 | 5.2            | 0.0008            | 14.5      |
| 0.55      | Y3.801-4   | 1.49   | 1390        | 72.8       | 72.6 | 69.0 | 0.75         | 0.66 | 0.55 | 3.78    | 2.4 | 2.3 | 5.2 | 5.8            | 0.0018            | 15        |
| 0.75      | Y3.802-4   | 1.93   | 1390        | 74.4       | 74.2 | 70.0 | 0.74         | 0.65 | 0.54 | 5.15    | 2.4 | 2.3 | 6.0 | 58             | 0.0021            | 16        |
| 1.1       | Y3.90S-4   | 2.75   | 1400        | 74.4       | 77.8 | 75.0 | 0.79         | 0.70 | 0.57 | 7.50    | 2.3 | 2.3 | 6.0 | 61             | 0.0023            | 23        |
| 1.5       | Y3.90L-4   | 3.52   | 1400        | 78.5       | 78.1 | 76.7 | 0.81         | 0.75 | 0.64 | 10.23   | 2.3 | 2.3 | 6.0 | 61             | 0.0027            | 25        |
| 2.2       | Y3.100L1-4 | 4.90   | 1420        | 82.5       | 83.0 | 81.1 | 0.82         | 0.76 | 0.65 | 14.80   | 2.3 | 2.3 | 7.0 | 64             | 0.0054            | 33        |
| 3         | Y3.100L2-4 | 6.44   | 1420        | 82.6       | 83.2 | 81.6 | 0.86         | 0.78 | 0.66 | 20.18   | 2.3 | 2.3 | 7.0 | 64             | 0.0067            | 35        |
| 4         | Y3.112M-4  | 8.36   | 1440        | 85.0       | 84.8 | 82.7 | 0.83         | 0.76 | 0.64 | 26.53   | 2.3 | 2.3 | 7.0 | 65             | 0.0095            | 41        |
| 5.5       | Y3.132S-4  | 11.2   | 1440        | 86.7       | 86.8 | 85.6 | 0.87         | 0.81 | 0.71 | 36.48   | 2.3 | 2.3 | 7.0 | 71             | 0.0214            | 65        |
| 7.5       | Y3.132M-4  | 14.8   | 1460        | 87.9       | 88.2 | 87.2 | 0.87         | 0.83 | 0.74 | 49.74   | 2.3 | 2.3 | 7.0 | 71             | 0.0296            | 76        |
| 11        | Y3.160M-4  | 21.1   | 1460        | 89.2       | 89.2 | 87.8 | 0.85         | 0.83 | 0.75 | 71.59   | 2.2 | 2.3 | 7.0 | 75             | 0.0747            | 118       |
| 15        | Y3.160L-4  | 28.6   | 1470        | 89.7       | 89.7 | 88.4 | 0.85         | 0.82 | 0.75 | 96.12   | 2.2 | 2.3 | 7.5 | 75             | 0.0918            | 132       |
| 18.5      | Y3.180M-4  | 34.6   | 1470        | 90.7       | 90.6 | 89.2 | 0.89         | 0.86 | 0.77 | 120.19  | 2.2 | 2.3 | 7.5 | 76             | 0.139             | 164       |
| 22        | Y3.180L-4  | 41     | 1480        | 91.6       | 91.7 | 90.7 | 0.88         | 0.85 | 0.75 | 142.93  | 2.2 | 2.3 | 7.5 | 76             | 0.158             | 182       |
| 30        | Y3.200L-4  | 54.7   | 1480        | 92.6       | 92.4 | 91.6 | 0.87         | 0.84 | 0.75 | 160.96  | 2.2 | 2.3 | 7.2 | 79             | 0.262             | 245       |
| 37        | Y3.225S-4  | 66.4   | 1480        | 92.8       | 92.7 | 91.5 | 0.87         | 0.84 | 0.75 | 198.51  | 2.2 | 2.3 | 7.2 | 81             | 0.406             | 258       |
| 45        | Y3.225M-4  | 80.4   | 1480        | 93.4       | 93.3 | 92.5 | 0.89         | 0.87 | 0.81 | 290.37  | 2.2 | 2.3 | 7.2 | 81             | 0.469             | 290       |
| 55        | Y3.250M-4  | 97.8   | 1480        | 94.0       | 94.2 | 93.6 | 0.89         | 0.88 | 0.82 | 354.90  | 2.2 | 2.3 | 7.2 | 83             | 0.66              | 388       |
| 75        | Y3.280S-4  | 133    | 1480        | 94.0       | 93.5 | 92.0 | 0.91         | 0.89 | 0.84 | 483.95  | 2.2 | 2.3 | 7.2 | 8.6            | 1.12              | 5.10      |
| 90        | Y3.280M-4  | 158.7  | 1485        | 94.0       | 93.5 | 91.8 | 0.88         | 0.86 | 0.80 | 578.79  | 2.2 | 2.3 | 7.2 | 86             | 1.46              | 606       |
| 110       | Y3.315S-4  | 191    | 1485        | 94.4       | 93.5 | 91.4 | 0.88         | 0.87 | 0.81 | 707.41  | 2.1 | 2.2 | 6.9 | 93             | 3.11              | 910       |
| 132       | Y3.315M-4  | 228    | 1485        | 94.8       | 94.8 | 93.3 | 0.91         | 0.88 | 0.82 | 848.89  | 2.1 | 2.2 | 6.9 | 93             | 3.62              | 1000      |
| 160       | Y3.315L1-4 | 273    | 1485        | 95.0       | 94.5 | 93.5 | 0.88         | 0.85 | 0.78 | 1028.98 | 2.1 | 2.2 | 6.9 | 97             | 4.13              | 1055      |
| 200       | Y3.315L2-4 | 341    | 1485        | 95.0       | 94.1 | 92.7 | 0.89         | 0.87 | 0.81 | 1286.20 | 2.1 | 2.2 | 6.9 | 97             | 4.73              | 1128      |
| 250       | Y3.355M-4  | 421    | 1490        | 95.0       | 94.4 | 93.4 | 0.89         | 0.87 | 0.79 | 1602.35 | 2.1 | 2.2 | 6.9 | 101            | 6.5               | 1700      |
| 315       | Y3.355L-4  | 528    | 1490        | 95.5       | 95.0 | 93.8 | 0.88         | 0.86 | 0.79 | 2018.96 | 2.1 | 2.2 | 6.9 | 101            | 8.2               | 1900      |



Speed 1000 rpm

380-420/220-240v Y/  $\Delta$  50hz  
 660-725/380-420v Y/  $\Delta$  50hz  
 Insulation class F, class B capability

| Output kw | Type        | Amps A | Speed r/min | Efficiency |      |      | Power factor |      |      | N.M     | LRT | BDT | LRA | Noise L.db (A) | Moment of inertia | Weight kg |
|-----------|-------------|--------|-------------|------------|------|------|--------------|------|------|---------|-----|-----|-----|----------------|-------------------|-----------|
|           |             |        |             | 100%       | 75%  | 50%  | 100%         | 75%  | 50%  |         | RLT | RLT | RLA |                |                   |           |
| 0.10      | Y3. 711-6   | 0.7    | 900         | 57         | 57   | 53.1 | 0.66         | 0.60 | 0.52 | 1.91    | 1.9 | 2.0 | 4.0 | 52             | 0.0011            | 14        |
| 0.25      | Y3. 712-12  | 0.9    | 900         | 60.0       | 59.9 | 55.2 | 0.68         | 0.60 | 0.53 | 2.65    | 1.9 | 2.0 | 4.0 | 52             | 0.0014            | 14.5      |
| 0.37      | Y3. 801-6   | 1.24   | 900         | 66.5       | 67.7 | 64.2 | 0.70         | 0.62 | 0.49 | 3.93    | 1.9 | 2.0 | 4.7 | 54             | 0.0016            | 15        |
| 0.55      | Y3. 802-6   | 1.7    | 900         | 68.2       | 68.4 | 64.1 | 0.66         | 0.59 | 0.47 | 5.84    | 1.9 | 2.1 | 4.7 | 54             | 0.0019            | 16        |
| 0.75      | Y3. 90S-6   | 2.18   | 910         | 74.4       | 73.9 | 70.6 | 0.74         | 0.64 | 0.52 | 7.87    | 2.0 | 2.1 | 5.5 | 57             | 0.0029            | 19        |
| 1.1       | Y3. 90L-6   | 3.03   | 910         | 75.2       | 74.7 | 72.1 | 0.75         | 0.66 | 0.53 | 11.54   | 2.0 | 2.1 | 5.5 | 57             | 0.0035            | 22        |
| 1.5       | Y3. 100L-6  | 3.75   | 940         | 77.6       | 77.6 | 74.8 | 0.73         | 0.66 | 0.54 | 15.24   | 2.0 | 2.1 | 5.5 | 61             | 0.0069            | 32        |
| 2.2       | Y3. 112M-6  | 5.32   | 940         | 79.9       | 79.9 | 76.7 | 0.75         | 0.66 | 0.52 | 22.35   | 2.1 | 2.1 | 6.5 | 65             | 0.014             | 41        |
| 3         | Y3. 132S-6  | 7.03   | 960         | 84.5       | 84.6 | 82.0 | 0.77         | 0.71 | 0.57 | 29.84   | 2.1 | 2.1 | 6.5 | 69             | 0.0286            | 63        |
| 4         | Y3.132M1-6  | 9.3    | 960         | 84.6       | 84.7 | 82.6 | 0.77         | 0.70 | 0.58 | 39.78   | 2.1 | 2.1 | 6.5 | 69             | 0.0357            | 72        |
| 5.5       | Y3.132M2-6  | 12.2   | 960         | 85.7       | 86.0 | 84.4 | 0.81         | 0.76 | 0.64 | 54.71   | 2.1 | 2.1 | 6.5 | 69             | 0.0449            | 81        |
| 7.5       | Y3. 160M-6  | 16.1   | 970         | 87.0       | 87.0 | 85.5 | 0.76         | 0.71 | 0.60 | 73.84   | 2.0 | 2.1 | 6.5 | 73             | 0.0081            | 118       |
| 11        | Y3. 160L-6  | 22.9   | 970         | 89.0       | 89.5 | 89.0 | 0.78         | 0.73 | 0.70 | 108.30  | 2.0 | 2.1 | 6.5 | 73             | 0.116             | 145       |
| 15        | Y3. 180L-6  | 30     | 970         | 89.1       | 89.1 | 87.8 | 0.84         | 0.79 | 0.67 | 147.68  | 2.1 | 2.1 | 7.0 | 73             | 0.207             | 178       |
| 18.5      | Y3. 200L1-6 | 36.6   | 970         | 90.0       | 90.2 | 88.9 | 0.82         | 0.78 | 0.67 | 182.14  | 2.1 | 2.0 | 7.0 | 76             | 0.315             | 200       |
| 22        | Y3. 200L2-6 | 42.4   | 970         | 90.1       | 90.1 | 88.6 | 0.83         | 0.78 | 0.71 | 216.60  | 2.1 | 2.0 | 7.0 | 76             | 0.36              | 228       |
| 30        | Y3. 225M-6  | 56.3   | 980         | 91.8       | 91.5 | 90.2 | 0.88         | 0.79 | 0.79 | 292.35  | 2.0 | 2.0 | 7.0 | 76             | 0.547             | 265       |
| 37        | Y3. 250M-6  | 67.4   | 980         | 92.8       | 92.8 | 91.8 | 0.86         | 0.86 | 0.76 | 360.56  | 2.1 | 2.0 | 7.0 | 78             | 0.843             | 370       |
| 45        | Y3. 280S-6  | 81.7   | 980         | 93.0       | 92.5 | 91.5 | 0.87         | 0.83 | 0.77 | 438.52  | 2.1 | 2.0 | 7.0 | 80             | 1.39              | 490       |
| 55        | Y3. 280M-6  | 99.8   | 980         | 93.0       | 92.5 | 91.5 | 0.88         | 0.85 | 0.78 | 535.97  | 2.1 | 2.0 | 7.0 | 80             | 1.65              | 540       |
| 75        | Y3. 315S-6  | 134    | 980         | 94.0       | 93.5 | 92.0 | 0.88         | 0.85 | 0.78 | 730.87  | 2.0 | 2.0 | 7.0 | 85             | 4.11              | 900       |
| 90        | Y3. 315M-6  | 161    | 985         | 94.0       | 93.5 | 92.0 | 0.86         | 0.85 | 0.78 | 872.59  | 2.0 | 2.0 | 6.7 | 85             | 4.78              | 980       |
| 110       | Y3.315L1-6  | 196    | 985         | 94.3       | 93.9 | 92.5 | 0.86         | 0.84 | 0.77 | 1066.50 | 2.0 | 2.0 | 6.7 | 85             | 5.45              | 1045      |
| 132       | Y3.315L2-6  | 232    | 985         | 94.7       | 94.2 | 93.0 | 0.87         | 0.84 | 0.77 | 1279.80 | 2.0 | 2.0 | 6.7 | 85             | 6.12              | 1100      |
| 160       | Y3.355M1-6  | 277    | 990         | 94.9       | 94.2 | 93.0 | 0.87         | 0.87 | 0.82 | 1543.43 | 1.9 | 2.0 | 6.7 | 92             | 9.5               | 1550      |
| 200       | Y3.355M2-6  | 347    | 990         | 94.9       | 94.5 | 93.7 | 0.89         | 0.87 | 0.83 | 1292.29 | 1.9 | 2.0 | 6.7 | 92             | 10.4              | 1600      |
| 250       | Y3. 355L-6  | 432    | 990         | 95.0       | 95.0 | 94.0 | 0.88         | 0.86 | 0.80 | 2411.62 | 1.9 | 2.0 | 6.7 | 92             | 12.4              | 1700      |







## Y3 - Series Three-Phase Induction Motor

Speed 750 rpm

380-420/220-240v Y/△ 50hz  
 660-725/380-420v Y/△ 50hz  
 Insulation class F, class B capability

| Output kw | Type        | Amps A | Speed r/min | Efficiency |      |      | Power factor |      |      | N.M     | LRT | BDT | LRA | Noise L.db (A) | Moment of Inertia | Weight kg |
|-----------|-------------|--------|-------------|------------|------|------|--------------|------|------|---------|-----|-----|-----|----------------|-------------------|-----------|
|           |             |        |             | 100%       | 75%  | 50%  | 100%         | 75%  | 50%  |         | RLT | RLT | RLA |                |                   |           |
| 0.18      | Y3. 801-8   | 0.84   | 690         | 52         | 49.5 | 44.0 | 0.61         | 0.56 | 0.44 | 2.49    | 1.8 | 1.9 | 3.3 | 52             | 0.025             | 16        |
| 0.25      | Y3. 802-8   | 1.09   | 690         | 54.6       | 51.6 | 46.0 | 0.61         | 0.56 | 0.45 | 3.46    | 1.8 | 1.9 | 3.3 | 52             | 0.003             | 18        |
| 0.37      | Y3. 90S-8   | 1.42   | 690         | 62.8       | 62.2 | 54.0 | 0.61         | 0.57 | 0.46 | 5.12    | 1.8 | 1.9 | 4.0 | 56             | 0.0051            | 22        |
| 0.55      | Y3. 90L-8   | 2.06   | 690         | 63.5       | 61.6 | 56.5 | 0.61         | 0.59 | 0.46 | 7.61    | 1.8 | 2.0 | 4.0 | 56             | 0.0065            | 24        |
| 0.75      | Y3. 100L1-8 | 2.27   | 700         | 72.1       | 71.8 | 64.0 | 0.67         | 0.60 | 0.47 | 10.23   | 1.8 | 2.0 | 4.0 | 59             | 0.009             | 30        |
| 1.1       | Y3. 100L2-8 | 3.21   | 700         | 72.1       | 70.5 | 64.7 | 0.62         | 0.54 | 0.42 | 15.00   | 1.8 | 2.0 | 5.0 | 59             | 0.011             | 32        |
| 1.5       | Y3. 112M-8  | 4.28   | 700         | 77.2       | 77.3 | 74.5 | 0.69         | 0.60 | 0.48 | 20.46   | 1.8 | 2.0 | 5.0 | 61             | 0.0245            | 40        |
| 2.2       | Y3. 132S-8  | 5.7    | 710         | 81.9       | 82.2 | 79.7 | 0.73         | 0.66 | 0.52 | 29.59   | 1.8 | 2.0 | 6.0 | 64             | 0.0314            | 64        |
| 3         | Y3. 132M-8  | 7.53   | 710         | 83.0       | 83.4 | 81.5 | 0.75         | 0.67 | 0.54 | 40.35   | 1.8 | 2.0 | 6.0 | 64             | 0.0395            | 78        |
| 4         | Y3. 160M1-8 | 9.8    | 720         | 86.0       | 85.8 | 84.1 | 0.74         | 0.64 | 0.52 | 53.06   | 1.9 | 2.0 | 6.0 | 68             | 0.0753            | 105       |
| 5.5       | Y3. 160M2-8 | 12.9   | 720         | 86.6       | 87.3 | 86.3 | 0.77         | 0.71 | 0.59 | 72.59   | 2.0 | 2.0 | 6.0 | 68             | 0.0931            | 115       |
| 7.5       | Y3. 160L-8  | 16.9   | 720         | 87.2       | 88.1 | 87.8 | 0.79         | 0.74 | 0.63 | 99.50   | 2.0 | 2.0 | 6.0 | 68             | 0.126             | 145       |
| 11        | Y3. 180L-8  | 23.8   | 730         | 87.8       | 87.9 | 86.4 | 0.77         | 0.70 | 0.57 | 143.90  | 2.0 | 2.0 | 6.0 | 70             | 0.203             | 160       |
| 15        | Y3. 200L-8  | 32.4   | 730         | 88.2       | 88.7 | 87.9 | 0.77         | 0.70 | 0.57 | 196.23  | 2.0 | 2.0 | 6.6 | 73             | 0.339             | 228       |
| 18.5      | Y3. 225S-8  | 39     | 730         | 91.3       | 91.5 | 90.6 | 0.76         | 0.72 | 0.61 | 242.02  | 1.9 | 2.0 | 6.6 | 73             | 0.491             | 242       |
| 22        | Y3. 225M-8  | 45     | 730         | 90.0       | 90.7 | 90.1 | 0.78         | 0.75 | 0.66 | 287.81  | 1.9 | 2.0 | 6.6 | 73             | 0.547             | 265       |
| 30        | Y3. 250M-8  | 60.8   | 730         | 92.4       | 92.3 | 91.3 | 0.81         | 0.76 | 0.66 | 382.47  | 1.9 | 2.0 | 6.6 | 75             | 0.834             | 368       |
| 37        | Y3. 280S-8  | 74     | 730         | 92.5       | 92.4 | 91.1 | 0.78         | 0.73 | 0.63 | 484.04  | 1.9 | 2.0 | 6.6 | 76             | 1.93              | 472       |
| 45        | Y3. 280M-8  | 89.3   | 740         | 92.6       | 92.6 | 91.5 | 0.78         | 0.73 | 0.63 | 580.74  | 1.8 | 2.0 | 6.6 | 76             | 1.65              | 538       |
| 55        | Y3. 315S-8  | 105    | 740         | 93.0       | 93.0 | 91.5 | 0.82         | 0.76 | 0.66 | 709.80  | 1.8 | 2.0 | 6.6 | 82             | 4.79              | 900       |
| 75        | Y3. 315M-8  | 143    | 740         | 93.5       | 93.5 | 92.0 | 0.82         | 0.78 | 0.67 | 967.91  | 1.8 | 2.0 | 6.6 | 82             | 5.58              | 1000      |
| 90        | Y3. 315L1-8 | 169    | 740         | 93.7       | 93.5 | 92.0 | 0.82         | 0.78 | 0.67 | 1161.49 | 1.8 | 2.0 | 6.6 | 82             | 6.37              | 1055      |
| 110       | Y3. 315L2-8 | 206    | 740         | 94.1       | 94.5 | 92.0 | 0.83         | 0.80 | 0.76 | 1419.60 | 1.8 | 2.0 | 6.4 | 82             | 7.23              | 1118      |
| 132       | Y3. 355M1-8 | 248    | 745         | 94.7       | 94.4 | 93.1 | 0.82         | 0.79 | 0.71 | 1692.08 | 1.8 | 2.0 | 6.4 | 90             | 7.9               | 2000      |
| 160       | Y3. 355M2-8 | 299    | 745         | 94.7       | 94.7 | 94.4 | 0.85         | 0.84 | 0.82 | 2051.08 | 1.8 | 2.0 | 6.4 | 90             | 10.3              | 2150      |
| 200       | Y3. 355L-8  | 369    | 745         | 94.8       | 94.2 | 92.2 | 0.84         | 0.83 | 0.80 | 2563.38 | 1.8 | 2.0 | 6.4 | 90             | 12.3              | 2250      |

Speed 600 rpm

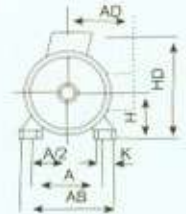
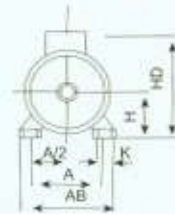
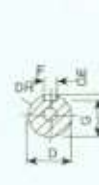
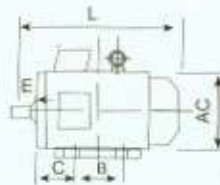
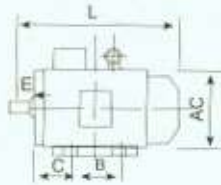
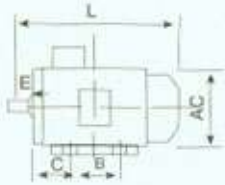
380-420/220-240v Y/△ 50hz  
 660-725/380-420v Y/△ 50hz  
 Insulation class F, class B capability

|     |              |       |     |  |      |  |  |      |  |         |     |     |     |    |  |      |
|-----|--------------|-------|-----|--|------|--|--|------|--|---------|-----|-----|-----|----|--|------|
| 45  | Y3. 315S-10  | 99.6  | 590 |  | 91.5 |  |  | 0.75 |  | 728.39  | 1.5 | 2.0 | 6.2 | 82 |  | 818  |
| 55  | Y3. 315M-10  | 121.1 | 590 |  | 92.0 |  |  | 0.75 |  | 890.25  | 1.5 | 2.0 | 6.2 | 82 |  | 928  |
| 75  | Y3. 315L1-10 | 162.1 | 590 |  | 92.5 |  |  | 0.76 |  | 1213.99 | 1.5 | 2.0 | 6.2 | 82 |  | 1080 |
| 90  | Y3. 315L2-10 | 191.0 | 590 |  | 93.0 |  |  | 0.77 |  | 1456.78 | 1.5 | 2.0 | 6.2 | 82 |  | 1200 |
| 110 | Y3. 355M1-10 | 219   | 595 |  | 93.2 |  |  | 0.78 |  | 1765.55 | 1.3 | 2.0 | 6.0 | 90 |  | 1800 |
| 132 | Y3. 355M2-10 | 261   | 595 |  | 93.5 |  |  | 0.78 |  | 2118.66 | 1.3 | 2.0 | 6.0 | 90 |  | 2000 |
| 160 | Y3. 355L-10  | 317   | 595 |  | 93.5 |  |  | 0.78 |  | 2568.07 | 1.3 | 2.0 | 6.0 | 90 |  | 2500 |



# Y3 - Series Three-Phase Induction Motor

Frame with feet and endshield without flange



H63-90

H100-132

H160-355

H63-32

H160-355

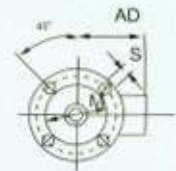
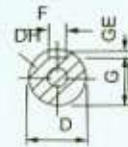
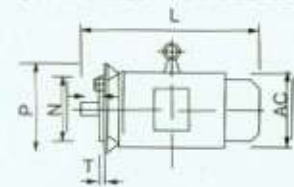
| Frame size | poles       | mounting dimensions |       |     |     |     |     |      |      |     |     | overall dimensions |     |     |      |        |        |     |    |      |        |      |     |       |        |     |        |        |        |
|------------|-------------|---------------------|-------|-----|-----|-----|-----|------|------|-----|-----|--------------------|-----|-----|------|--------|--------|-----|----|------|--------|------|-----|-------|--------|-----|--------|--------|--------|
|            |             | A                   | A/2   | B   | C   | D   | E   | F    | G    | H   | K   | AB                 | AC  | AD  | HD   | L      | DH     |     |    |      |        |      |     |       |        |     |        |        |        |
| 63         | 2, 4        | 100                 | 50    | 80  | 40  | 11  | 23  | 4    | 8.5  | 63  | 7   | 135                | 130 | 70  | 180  | 230    | M4X12  |     |    |      |        |      |     |       |        |     |        |        |        |
| 71         | 2, 4, 6     | 112                 | 56    | 90  | 45  | 14  | 30  | 5    | 11   | 71  |     | 150                | 145 | 80  | 195  | 255    | M5X12  |     |    |      |        |      |     |       |        |     |        |        |        |
| 80         | 2, 4, 6, 8  | 125                 | 62.5  | 100 | 50  | 19  | 40  | 6    | 15.5 | 80  | 10  | 165                | 175 | 145 | 220  | 295    | M6X16  |     |    |      |        |      |     |       |        |     |        |        |        |
| 90S        |             | 140                 | 70    | 100 | 56  | 24  | 50  | 8    | 20   | 90  | 10  | 180                | 195 | 155 | 250  | 320    | M8X19  |     |    |      |        |      |     |       |        |     |        |        |        |
| 90L        |             |                     |       | 125 |     |     |     |      |      |     |     |                    |     |     |      |        |        |     |    |      |        |      | 345 | M8X19 |        |     |        |        |        |
| 100L       |             | 160                 | 80    | 140 | 63  | 28  | 60  | 24   | 100  | 112 | 12  | 205                | 215 | 180 | 270  | 385    | M10X22 |     |    |      |        |      |     |       |        |     |        |        |        |
| 112M       |             | 190                 | 95    | 140 | 70  |     |     |      |      |     |     |                    |     |     |      |        |        |     |    |      |        | 230  | 240 | 190   | 300    | 400 | M10X22 |        |        |
| 132S       |             | 216                 | 108   | 140 | 89  | 38  | 80  | 10   | 33   | 132 | 15  | 270                | 272 | 210 | 345  | 470    | M12X28 |     |    |      |        |      |     |       |        |     |        |        |        |
| 132M       |             |                     |       | 178 |     |     |     |      |      |     |     |                    |     |     |      |        |        |     |    | 510  | M12X28 |      |     |       |        |     |        |        |        |
| 160M       |             | 254                 | 127   | 210 | 108 | 42  | 110 | 12   | 37   | 160 | 15  | 320                | 330 | 255 | 422  | 615    | M16X36 |     |    |      |        |      |     |       |        |     |        |        |        |
| 160L       |             |                     |       | 254 |     |     |     |      |      |     |     |                    |     |     |      |        |        |     |    |      |        |      |     | 670   | M16X36 |     |        |        |        |
| 180M       |             | 279                 | 139.5 | 241 | 121 | 48  | 110 | 14   | 42.5 | 180 | 15  | 355                | 380 | 280 | 458  | 700    | M16X36 |     |    |      |        |      |     |       |        |     |        |        |        |
| 180L       |             |                     |       | 279 |     |     |     |      |      |     |     |                    |     |     |      |        |        |     |    |      |        |      |     | 740   | M16X36 |     |        |        |        |
| 200L       |             | 318                 | 159   | 305 | 133 | 55  | 110 | 16   | 49   | 200 | 19  | 295                | 420 | 305 | 525  | 770    | M20X42 |     |    |      |        |      |     |       |        |     |        |        |        |
| 225S       | 4, 8        |                     | 286   |     | 60  | 140 |     |      |      |     |     |                    |     |     |      | 18     | 53     | 225 | 19 | 435  | 470    | 355  | 574 | 815   | M20X42 |     |        |        |        |
| 225M       | 2           | 356                 | 178   | 311 | 149 | 55  | 110 | 16   | 49   |     |     |                    |     |     | 820  | M20X42 |        |     |    |      |        |      |     |       |        |     |        |        |        |
|            | 4, 6, 8     |                     |       |     |     | 60  |     |      | 53   | 250 | 490 | 510                | 370 | 635 | 910  | 845    | M20X42 |     |    |      |        |      |     |       |        |     |        |        |        |
| 250M       | 2           | 406                 | 203   | 349 | 168 | 65  |     |      | 85   |     |     |                    |     |     |      |        |        |     |    |      |        |      |     |       |        |     |        |        |        |
| 280S       | 2           | 457                 | 228.5 | 368 | 190 | 140 | 20  | 67.5 | 280  | 24  | 550 | 580                | 410 | 693 | 985  | M20X42 |        |     |    |      |        |      |     |       |        |     |        |        |        |
|            | 4, 6, 8     |                     |       |     |     |     |     |      |      |     |     |                    |     |     |      |        |        |     | 75 |      |        |      |     |       |        |     |        |        |        |
| 280M       | 2           |                     |       |     |     |     |     |      |      |     |     |                    |     |     |      |        | 419    |     | 65 |      | 58     |      |     |       |        |     |        | 1035   | M20X42 |
|            | 4, 6, 8     |                     |       |     |     |     |     |      |      |     |     |                    |     |     |      |        |        |     | 75 |      | 67.5   |      |     |       |        |     |        |        |        |
| 315S       | 2           | 508                 | 254   | 406 | 216 | 170 | 22  | 71   | 315  | 28  | 635 | 645                | 530 | 810 | 1160 | M20X42 |        |     |    |      |        |      |     |       |        |     |        |        |        |
|            | 4, 6, 8, 10 |                     |       |     |     |     |     |      |      |     |     |                    |     |     |      |        |        |     | 80 |      |        |      |     |       |        |     | 1270   | M20X42 |        |
| 315M       | 2           |                     |       |     |     |     |     |      |      |     |     |                    |     |     |      |        | 457    |     | 65 | 140  | 18     | 58   |     |       |        |     |        | 1190   | M20X42 |
|            | 4, 6, 8, 10 |                     |       |     |     |     |     |      |      |     |     |                    |     |     |      |        |        |     | 80 | 170  | 22     | 71   |     |       |        |     |        | 1300   | M20X42 |
| 315L       | 2           |                     |       | 508 |     | 65  | 140 | 18   | 58   | 28  | 730 | 710                | 655 |     | 1190 | M20X42 |        |     |    |      |        |      |     |       |        |     |        |        |        |
|            | 4, 6, 8, 10 |                     |       |     |     | 80  | 170 | 22   | 71   |     |     |                    |     |     |      |        |        |     |    | 1300 | M20X42 |      |     |       |        |     |        |        |        |
| 355M       | 2           | 610                 | 305   | 560 | 254 | 140 | 20  | 67.5 | 355  |     |     |                    |     |     | 28   | 730    | 710    | 655 |    | 1500 | M20X42 |      |     |       |        |     |        |        |        |
|            | 4, 6, 8, 10 |                     |       |     |     |     |     |      |      |     |     |                    |     |     |      |        |        |     |    |      |        |      |     | 75    | 170    | 25  | 86     |        |        |
| 355L       | 2           |                     |       |     |     |     |     |      |      |     |     |                    |     | 75  |      |        |        |     |    | 140  | 20     | 67.5 |     |       |        |     |        | 1500   | M20X42 |
|            | 4, 6, 8, 10 |                     |       |     |     |     |     |      |      |     |     | 630                |     | 95  |      |        |        |     |    | 170  | 25     | 86   |     |       |        |     |        | 1530   | M20X42 |

Note: R is the distance from the flange mounting-plane to the shaft-extension shoulder.

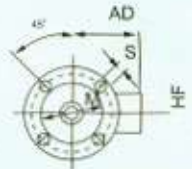
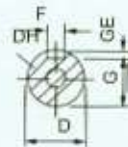
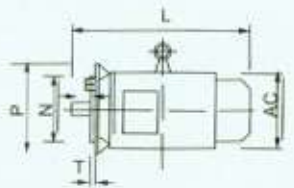




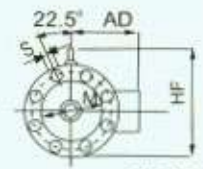
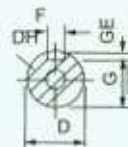
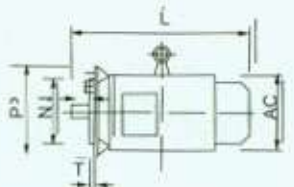
## Frame without feet and end shield with flange( with plain holes )



H63-90



H100-200



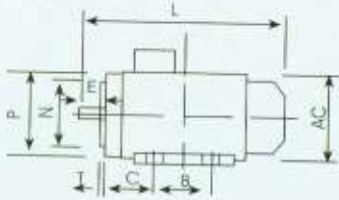
H225-280

| Frame size | Flange No | poles   | mounting dimensions |     |    |      |     |     |     |    |    |    | overall dimensions |     |     |      |        |       |        |       |  |  |  |        |  |     |        |        |
|------------|-----------|---------|---------------------|-----|----|------|-----|-----|-----|----|----|----|--------------------|-----|-----|------|--------|-------|--------|-------|--|--|--|--------|--|-----|--------|--------|
|            |           |         | D                   | E   | F  | G    | M   | N   | P   | R* | S  | T  | Flange holes       | AC  | AD  | HF   | L      | DH    |        |       |  |  |  |        |  |     |        |        |
| 63         | FF115     | 2, 4    | 11                  | 23  | 4  | 8.5  | 115 | 95  | 140 | 0  | 10 | 3  | 4                  | 130 | 70  | 130  | 230    | M4X12 |        |       |  |  |  |        |  |     |        |        |
| 71         | FF130     | 2, 4, 6 | 14                  | 30  | 5  | 11   | 130 | 110 | 160 |    |    |    |                    | 12  | 3.5 | 145  | 80     | 145   | 255    | M5X12 |  |  |  |        |  |     |        |        |
| 80         | FF165     | 2.4.6.8 | 19                  | 40  | 6  | 15.5 | 165 | 130 | 200 |    | 15 | 4  |                    |     |     | 175  | 145    | 185   | 295    | M6X16 |  |  |  |        |  |     |        |        |
| 90S        |           |         | 24                  | 50  | 8  | 20   |     |     |     |    |    |    |                    | 195 | 155 | 195  | 320    | M8X19 |        |       |  |  |  |        |  |     |        |        |
| 90L        |           |         |                     |     |    |      |     |     |     |    |    |    |                    |     |     |      |        |       | 345    | M8X19 |  |  |  |        |  |     |        |        |
| 100L       | FF215     | 2.4.6.8 | 28                  | 60  | 8  | 24   | 215 | 180 | 250 |    | 15 | 4  |                    | 4   | 215 | 180  | 245    | 385   | M10X22 |       |  |  |  |        |  |     |        |        |
| 112M       |           |         |                     |     |    |      |     |     |     |    |    |    |                    |     | 240 | 190  | 265    | 400   | M10X22 |       |  |  |  |        |  |     |        |        |
| 132S       | FF265     | 2.4.6.8 | 38                  | 80  | 10 | 33   | 265 | 230 | 300 |    | 15 | 4  |                    | 4   | 275 | 210  | 315    | 470   | M12X28 |       |  |  |  |        |  |     |        |        |
| 132M       |           |         |                     |     |    |      |     |     |     |    |    |    |                    |     |     |      |        |       |        |       |  |  |  |        |  | 510 | M12X28 |        |
| 160M       | FF300     | 2.4.6.8 | 42                  | 110 | 12 | 37   | 300 | 250 | 350 |    | 19 | 15 |                    | 8   | 330 | 255  | 385    | 615   | M16X36 |       |  |  |  |        |  |     |        |        |
| 160L       |           |         |                     |     |    |      |     |     |     |    |    |    |                    |     |     |      |        |       |        |       |  |  |  |        |  | 670 | M16X36 |        |
| 180M       |           |         |                     |     |    |      |     |     |     |    |    |    |                    |     |     |      |        |       |        |       |  |  |  |        |  |     | 700    | M16X36 |
| 180L       |           |         |                     |     |    |      |     |     |     |    |    |    |                    |     |     |      |        |       |        |       |  |  |  |        |  |     | 740    | M16X36 |
| 200L       | FF350     | 2.4.6.8 | 55                  |     | 16 | 49   | 350 | 300 | 400 |    |    |    |                    |     | 420 | 305  | 480    | 770   | M20X42 |       |  |  |  |        |  |     |        |        |
| 225S       | FF400     | 4, 8    | 60                  | 140 | 18 | 53   | 400 | 350 | 450 | 19 | 15 | 8  |                    |     |     | 615  | M20X42 |       |        |       |  |  |  |        |  |     |        |        |
| 225M       |           | 2       | 55                  | 110 | 16 | 49   |     |     |     |    |    |    | 470                | 335 | 535 | 820  | M20X42 |       |        |       |  |  |  |        |  |     |        |        |
|            |           | 4.6.8   | 60                  |     |    | 53   |     |     |     |    |    |    |                    |     |     | 845  | M20X42 |       |        |       |  |  |  |        |  |     |        |        |
| 250M       | FF500     | 2       | 65                  | 140 | 18 | 58   | 500 | 450 | 550 | 19 | 15 | 8  | 510                | 370 | 595 | 910  | M20X42 |       |        |       |  |  |  |        |  |     |        |        |
|            |           | 4.6.8   |                     |     |    |      |     |     |     |    |    |    |                    |     |     |      |        |       |        |       |  |  |  | M20X42 |  |     |        |        |
| 280S       | FF500     | 2       | 75                  | 140 | 20 | 67.5 | 500 | 450 | 550 | 19 | 15 | 8  | 580                | 410 | 650 | 985  | M20X42 |       |        |       |  |  |  |        |  |     |        |        |
|            |           | 4.6.8   |                     |     |    |      |     |     |     |    |    |    |                    |     |     |      |        |       |        |       |  |  |  |        |  |     |        |        |
| 280M       | FF500     | 2       | 65                  | 140 | 18 | 58   |     |     |     |    |    |    |                    |     |     | 1035 | M20X42 |       |        |       |  |  |  |        |  |     |        |        |
|            |           | 4.6.8   | 75                  |     | 20 | 67.5 |     |     |     |    |    |    |                    |     |     |      |        |       |        |       |  |  |  |        |  |     |        |        |

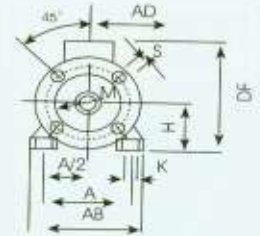
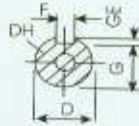
Note: R is the distance from the flange mounting-plane to the shaft-extension shoulder.



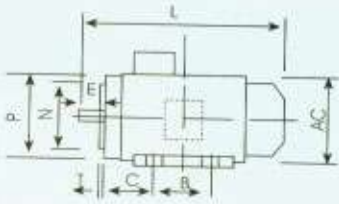
Frame with feet and shield  
with flange( with thread holes )



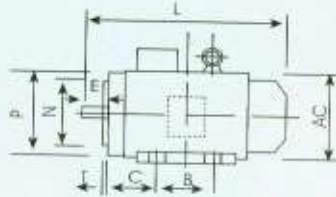
**H63-71**



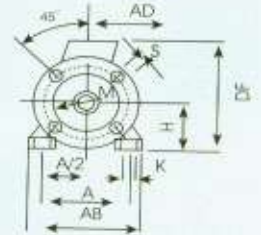
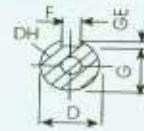
**H63-200**



**H63-71**



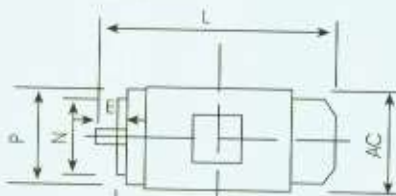
**H63-71**



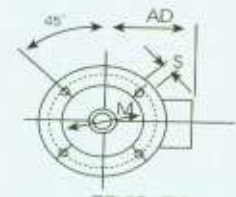
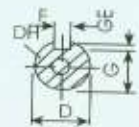
**H63-200**

| Frame size | Flange No. | poles    | mounting dimensions |      |       |    |    |    |     |      |    |     |     |     |     |     | overall dimensions |     |              |     |        |       |     |     |       |
|------------|------------|----------|---------------------|------|-------|----|----|----|-----|------|----|-----|-----|-----|-----|-----|--------------------|-----|--------------|-----|--------|-------|-----|-----|-------|
|            |            |          | A                   | A/2  | B     | C  | D  | E  | F   | G    | H  | K   | M   | N   | P   | R*  | S                  | T   | Flange holes | AB  | AC     | AD    | HD  | L   | DH    |
| 63         | FT75       | 2. 4     | 110                 | 50   | 80    | 40 | 11 | 23 | 4   | 8.5  | 63 | 7   | 75  | 60  | 90  | 0   | M5                 | 2.5 | 4            | 135 | 130    | 70    | 180 | 230 | M4X12 |
| 71         | FT85       | 2. 4. 6  | 112                 | 56   | 90    | 45 | 14 | 30 | 5   | 11   | 71 |     | 85  | 70  | 105 |     | M6                 |     |              | 150 | 155    | 80    | 195 | 255 | M5X12 |
| 80         | FT100      | 2.4.6.8. | 125                 | 62.5 | 100   | 50 | 19 | 40 | 6   | 15.5 | 80 |     | 100 | 80  | 120 |     | M8                 |     |              | 165 | 165    | 145   | 214 | 295 | M6X16 |
| 90S        | FT215      |          | 140                 | 70   | 100   | 56 | 24 | 50 | 8   | 20   | 90 | 10  | 115 | 95  | 140 | 3.0 | 180                | 195 | 155          | 250 | 320    | M8X19 |     |     |       |
| 90L        |            |          | 125                 | 345  | M8X19 |    |    |    |     |      |    |     |     |     |     |     |                    |     |              |     |        |       |     |     |       |
| 100L       | FT130      | 160      | 80                  | 140  | 63    | 28 | 60 | 24 | 100 | 112  | 12 | 130 | 110 | 150 | 3.5 | 205 | 215                | 180 | 270          | 385 | M10X22 |       |     |     |       |
| 112M       |            | 190      | 95                  | 140  | 70    |    |    |    |     |      |    |     |     |     |     | 230 | 240                | 190 | 300          | 400 | M10X22 |       |     |     |       |

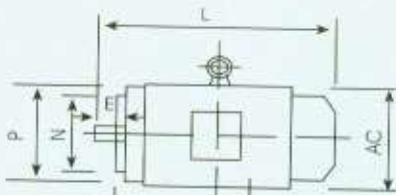
Note: R is the distance from the flange mounting-plane to the shaft-extension shoulder.



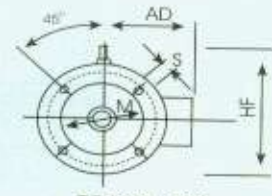
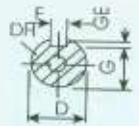
**H63-90**



**H63-90**



**H100-12**



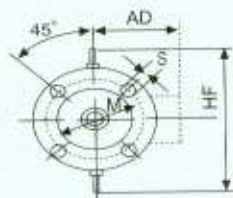
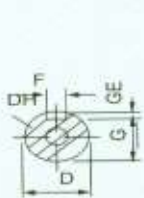
**H100-200**

Note: R is the distance from the flange mounting-plane to the shaft-extension shoulder.

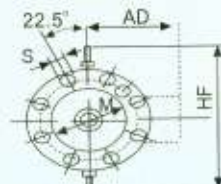


Frame without feet and end shield  
with flange( with thread holes )

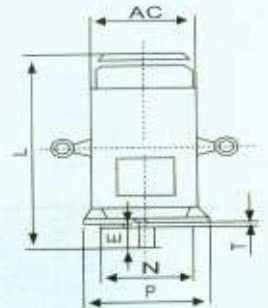
| Frame size | Flange No | poles      | mounting dimensions |    |     |      |     |     |     |     |     |     | overall dimensions |       |        |     |     |       |
|------------|-----------|------------|---------------------|----|-----|------|-----|-----|-----|-----|-----|-----|--------------------|-------|--------|-----|-----|-------|
|            |           |            | D                   | E  | F   | G    | M   | N   | P   | R*  | S   | T   | Flange holes       | AC    | AD     | HF  | L   | DH    |
| 63         | FT75      | 2. 4       | 11                  | 23 | 4   | 8.5  | 75  | 60  | 90  | 0   | M5  | 2.5 | 4                  | 130   | 70     | 130 | 230 | M4X12 |
| 71         | FT85      | 2. 4. 6    | 14                  | 30 | 5   | 11   | 85  | 70  | 105 |     | M6  |     |                    | 145   | 80     | 145 | 255 | M5X12 |
| 80         | FT100     | 2. 4. 6. 8 | 19                  | 40 | 6   | 15.5 | 100 | 80  | 120 |     | M8  | 3.0 |                    | 175   | 145    | 105 | 295 | M6X16 |
| 90S        | FT215     |            | 24                  | 50 | 8   | 20   | 115 | 95  | 140 |     | 3.5 |     |                    | 195   | 155    | 195 | 320 | M8X19 |
| 90L        |           |            | 24                  | 50 |     | 20   | 115 | 95  | 140 |     |     | 345 |                    | M8X19 |        |     |     |       |
| 100L       | FT130     | 28         | 60                  | 24 | 130 | 110  | 160 | 3.5 | 215 |     | 180 | 245 |                    | 385   | M10X22 |     |     |       |
| 112M       |           | 28         | 60                  | 24 | 130 | 110  | 160 |     | 240 | 190 | 365 | 400 | M10X22             |       |        |     |     |       |



H180-200



H225-355



Vertical type, Frame without feet and end shield with flange ( with plain holes )

| Frame size | Flange No | poles       | mounting dimensions |     |    |      |     |     |     |    |    |   | overall dimensions |     |     |      |      |        |      |        |        |        |        |
|------------|-----------|-------------|---------------------|-----|----|------|-----|-----|-----|----|----|---|--------------------|-----|-----|------|------|--------|------|--------|--------|--------|--------|
|            |           |             | D                   | E   | F  | G    | M   | N   | P   | R* | S  | T | Flange holes       | AC  | AD  | HF   | L    | DH     |      |        |        |        |        |
| 180M       | FF300     | 2. 4. 6. 8  | 48                  | 110 | 14 | 42.5 | 300 | 250 | 350 | 0  | 19 | 5 | 4                  | 380 | 280 | 500  | 760  | M16X36 |      |        |        |        |        |
| 180L       |           |             |                     |     | 16 | 49   | 350 | 300 | 400 |    |    |   |                    |     |     |      | 800  | M16X36 |      |        |        |        |        |
| 200L       |           |             |                     |     | 16 | 49   | 350 | 300 | 400 |    |    |   |                    |     |     |      | 905  | M20X42 |      |        |        |        |        |
| 225S       | FF400     | 4. 8        | 60                  | 140 | 18 | 53   | 400 | 350 | 450 | 0  | 19 | 5 | 4                  | 470 | 335 | 610  | 910  | M20X42 |      |        |        |        |        |
| 225M       |           | 2           | 55                  | 110 | 16 | 49   |     |     |     |    |    |   |                    |     |     |      | 18   | 58     | 935  | M20X42 |        |        |        |
| 250M       | FF500     | 2           | 60                  | 140 | 18 | 53   | 500 | 450 | 550 | 0  | 19 | 5 | 4                  | 510 | 370 | 650  | 1015 | M20X42 |      |        |        |        |        |
| 280S       |           | 4. 6. 8     |                     |     |    |      |     |     |     |    |    |   |                    |     |     |      | 65   | 20     | 67.5 | 18     | 58     | 1110   | M20X42 |
| 280M       |           | 2           |                     |     |    |      |     |     |     |    |    |   |                    |     |     |      | 65   | 18     | 58   | 1150   | M20X42 |        |        |
| 315S       | FF600     | 2           | 65                  | 140 | 18 | 58   | 600 | 550 | 660 | 0  | 24 | 6 | 8                  | 645 | 530 | 900  | 1280 | M20X42 |      |        |        |        |        |
| 315M       |           | 4. 6. 8. 10 |                     |     |    |      |     |     |     |    |    |   |                    |     |     |      | 80   | 170    | 22   | 71     | 1310   | M20X42 |        |
| 315L       |           | 2           |                     |     |    |      |     |     |     |    |    |   |                    |     |     |      | 65   | 140    | 18   | 58     | 1310   | M20X42 |        |
| 355M       | FF740     | 2           | 75                  | 140 | 20 | 67.5 | 740 | 680 | 800 | 0  | 24 | 6 | 8                  | 710 | 655 | 1010 | 1640 | M20X42 |      |        |        |        |        |
| 355L       |           | 4. 6. 8. 10 |                     |     |    |      |     |     |     |    |    |   |                    |     |     |      | 95   | 170    | 25   | 86     | 1670   | M20X42 |        |
|            |           | 2           |                     |     |    |      |     |     |     |    |    |   |                    |     |     |      | 75   | 140    | 20   | 67.5   | 1640   | M20X42 |        |

Note: R is the distance from the flange mounting-plane to the shaft-extension shoulder.



Y3A series

ALUMINIUM CASHING



## Technical Data

### 2 POLE. 3000RPM SYNCHRONOUS SPEED 50Hz

| TYPE         | OUTPUT |      | SPEED<br>r / min | IFL            |                |                | EFFICIENCY |       |       | POWER FACTOR |       |       | TFL<br>Nm | IST<br>IFL | TST<br>TFL | TM<br>IFL | NOISE<br>LEVEL<br>dB(A) | WEIGHT<br>(kg) |
|--------------|--------|------|------------------|----------------|----------------|----------------|------------|-------|-------|--------------|-------|-------|-----------|------------|------------|-----------|-------------------------|----------------|
|              | HP     | kw   |                  | 380V<br>(AMPS) | 380V<br>(AMPS) | 400V<br>(AMPS) | 100%FL     | 75%FL | 50%FL | 100%FL       | 75%FL | 50%FL |           |            |            |           |                         |                |
| Y3A561 - 2   | 0.12   | 0.09 | 2800             | 0.3            | 0.3            | 0.3            | 62.0       | 61.0  | 57.0  | 0.77         | 0.71  | 0.64  | 0.31      | 5.2        | 2.1        | 2.2       | 60                      | 3.5            |
| Y3A562 - 2   | 0.18   | 0.12 | 2800             | 0.4            | 0.3            | 0.3            | 64.0       | 63.5  | 59.0  | 0.78         | 0.73  | 0.65  | 0.41      | 5.2        | 2.1        | 2.2       | 60                      | 3.6            |
| Y3A631 - 2   | 0.25   | 0.18 | 2800             | 0.5            | 0.5            | 0.5            | 66.0       | 64.0  | 60.0  | 0.80         | 0.73  | 0.66  | 0.61      | 5.5        | 2.2        | 2.3       | 61                      | 4.5            |
| Y3A632 - 2   | 0.37   | 0.25 | 2800             | 0.7            | 0.6            | 0.6            | 69.0       | 68.5  | 66.0  | 0.81         | 0.74  | 0.67  | 0.96      | 5.5        | 2.2        | 2.3       | 61                      | 4.7            |
| Y3A711 - 2   | 0.5    | 0.37 | 2800             | 1.0            | 0.9            | 0.9            | 71.0       | 71.0  | 68.5  | 0.81         | 0.75  | 0.66  | 1.26      | 6.1        | 2.2        | 2.3       | 64                      | 6              |
| Y3A712 - 2   | 0.75   | 0.55 | 2800             | 1.4            | 1.3            | 1.3            | 74.0       | 73.0  | 69.5  | 0.82         | 0.76  | 0.69  | 1.88      | 6.1        | 2.2        | 2.3       | 64                      | 6.3            |
| Y3A801 - 2   | 1      | 0.75 | 2825             | 1.8            | 1.7            | 1.6            | 76.0       | 75.0  | 70.0  | 0.83         | 0.79  | 0.70  | 2.54      | 6.1        | 2.2        | 2.3       | 67                      | 10             |
| Y3A802 - 2   | 1.5    | 1.1  | 2825             | 2.5            | 2.4            | 2.3            | 78.0       | 77.6  | 75.5  | 0.84         | 0.79  | 0.70  | 3.72      | 7.0        | 2.2        | 2.3       | 67                      | 11             |
| Y3A90S - 2   | 2      | 1.5  | 2840             | 3.4            | 3.2            | 3.1            | 79.2       | 79.0  | 77.0  | 0.84         | 0.80  | 0.72  | 5.04      | 7.0        | 2.2        | 2.3       | 72                      | 13             |
| Y3A90L - 2   | 3      | 2.2  | 2840             | 4.8            | 4.6            | 4.4            | 81.5       | 82.0  | 80.0  | 0.85         | 0.81  | 0.72  | 7.40      | 7.0        | 2.2        | 2.3       | 72                      | 14             |
| Y3A100L - 2  | 4      | 3    | 2880             | 6.2            | 5.9            | 5.7            | 83.5       | 83.5  | 82.5  | 0.88         | 0.84  | 0.74  | 9.95      | 7.5        | 2.2        | 2.3       | 76                      | 25             |
| Y3A112M - 2  | 5.5    | 4    | 2890             | 8.1            | 7.7            | 7.4            | 85.5       | 85.1  | 84.4  | 0.88         | 0.84  | 0.76  | 13.22     | 7.5        | 2.2        | 2.3       | 77                      | 28             |
| Y3A132S1 - 2 | 7.5    | 5.5  | 2900             | 10.8           | 10.3           | 9.9            | 86.5       | 86.0  | 83.6  | 0.89         | 0.85  | 0.78  | 18.11     | 7.5        | 2.2        | 2.3       | 80                      | 40             |
| Y3A132S2 - 2 | 10     | 7.5  | 2900             | 14.7           | 14.0           | 13.5           | 87.1       | 86.5  | 84.3  | 0.89         | 0.85  | 0.78  | 24.70     | 7.5        | 2.2        | 2.3       | 80                      | 45             |
| Y3A160M1 - 2 | 15     | 11   | 2930             | 20.9           | 19.9           | 19.2           | 88.7       | 88.2  | 87.4  | 0.90         | 0.86  | 0.79  | 35.85     | 7.5        | 2.2        | 2.3       | 86                      | 69             |
| Y3A160M2 - 2 | 20     | 15   | 2930             | 28.3           | 26.9           | 25.9           | 89.5       | 89.8  | 89.3  | 0.90         | 0.87  | 0.80  | 48.89     | 7.5        | 2.2        | 2.3       | 86                      | 78             |
| Y3A160L - 2  | 25     | 18.5 | 2930             | 34.1           | 32.4           | 31.2           | 90.5       | 90.6  | 89.6  | 0.91         | 0.87  | 0.80  | 60.30     | 7.5        | 2.2        | 2.3       | 86                      | 90             |

## Technical Data

### 4 POLE. 1500RPM SYNCHRONOUS SPEED 50Hz

| TYPE         | OUTPUT |      | SPEED<br>r / min | IFL            |                |                | EFFICIENCY |       |       | POWER FACTOR |       |       | TFL<br>Nm | IST<br>IFL | TST<br>TFL | TM<br>IFL | NOISE<br>LEVEL<br>dB(A) | WEIGHT<br>(kg) |
|--------------|--------|------|------------------|----------------|----------------|----------------|------------|-------|-------|--------------|-------|-------|-----------|------------|------------|-----------|-------------------------|----------------|
|              | HP     | kw   |                  | 380V<br>(AMPS) | 380V<br>(AMPS) | 400V<br>(AMPS) | 100%FL     | 75%FL | 50%FL | 100%FL       | 75%FL | 50%FL |           |            |            |           |                         |                |
| Y3A561 - 4   | 0.09   | 0.06 | 1340             | 0.2            | 0.2            | 0.2            | 56.0       | 56.6  | 52.0  | 0.69         | 0.61  | 0.54  | 0.43      | 4.0        | 2.0        | 2.1       | 52                      | 3.5            |
| Y3A562 - 4   | 0.12   | 0.09 | 1340             | 0.3            | 0.3            | 0.3            | 58.0       | 58.2  | 54.5  | 0.70         | 0.61  | 0.55  | 0.64      | 4.0        | 2.0        | 2.1       | 52                      | 3.6            |
| Y3A631 - 4   | 0.18   | 0.12 | 1360             | 0.4            | 0.4            | 0.4            | 59.0       | 59.0  | 56.0  | 0.72         | 0.63  | 0.57  | 0.84      | 4.4        | 2.1        | 2.2       | 52                      | 4.5            |
| Y3A632 - 4   | 0.25   | 0.18 | 1360             | 0.6            | 0.6            | 0.5            | 62.0       | 61.6  | 57.5  | 0.73         | 0.65  | 0.57  | 1.26      | 4.4        | 2.1        | 2.2       | 52                      | 4.7            |
| Y3A711 - 4   | 0.37   | 0.25 | 1380             | 0.8            | 0.7            | 0.7            | 67.3       | 66.5  | 60.1  | 0.74         | 0.65  | 0.58  | 1.73      | 5.2        | 2.1        | 2.2       | 55                      | 6              |
| Y3A712 - 4   | 0.5    | 0.37 | 1380             | 1.1            | 1.0            | 1.0            | 70.0       | 69.0  | 62.0  | 0.75         | 0.67  | 0.60  | 2.56      | 5.2        | 2.1        | 2.2       | 55                      | 6.3            |
| Y3A801 - 4   | 0.75   | 0.55 | 1400             | 1.5            | 1.5            | 1.4            | 71.8       | 72.1  | 69.2  | 0.75         | 0.68  | 0.61  | 3.75      | 5.2        | 2.3        | 2.3       | 58                      | 10             |
| Y3A802 - 4   | 1      | 0.75 | 1400             | 2.0            | 1.9            | 1.8            | 73.5       | 73.5  | 69.7  | 0.77         | 0.68  | 0.62  | 5.11      | 6.0        | 2.3        | 2.3       | 58                      | 11             |
| Y3A90S - 4   | 1.5    | 1.1  | 1400             | 2.8            | 2.7            | 2.6            | 76.5       | 77.1  | 75.6  | 0.78         | 0.70  | 0.62  | 7.50      | 6.0        | 2.3        | 2.3       | 61                      | 13             |
| Y3A90L - 4   | 2      | 1.5  | 1400             | 3.7            | 3.5            | 3.4            | 78.6       | 79.2  | 78.8  | 0.79         | 0.71  | 0.64  | 10.23     | 6.0        | 2.3        | 2.3       | 61                      | 14             |
| Y3A100L - 4  | 3      | 2.2  | 1420             | 5.0            | 4.7            | 4.5            | 82.0       | 81.6  | 80.2  | 0.82         | 0.74  | 0.66  | 14.80     | 7.0        | 2.3        | 2.3       | 64                      | 23             |
| Y3A100L2 - 4 | 4      | 3    | 1420             | 6.6            | 6.3            | 6.1            | 83.0       | 83.6  | 83.4  | 0.83         | 0.76  | 0.66  | 20.18     | 7.0        | 2.3        | 2.3       | 64                      | 25             |
| Y3A112M - 4  | 5.5    | 4    | 1440             | 8.6            | 8.2            | 7.9            | 85.1       | 84.9  | 83.4  | 0.83         | 0.77  | 0.66  | 26.53     | 7.0        | 2.3        | 2.3       | 65                      | 28             |
| Y3A132S - 4  | 7.5    | 5.5  | 1440             | 11.5           | 10.9           | 10.5           | 86.6       | 86.1  | 85.5  | 0.84         | 0.79  | 0.71  | 36.48     | 7.0        | 2.3        | 2.3       | 71                      | 45             |
| Y3A132M - 4  | 10     | 7.5  | 1440             | 15.3           | 14.5           | 14.0           | 87.6       | 87.6  | 87.1  | 0.85         | 0.81  | 0.71  | 49.74     | 7.0        | 2.3        | 2.3       | 71                      | 55             |
| Y3A160M - 4  | 15     | 11   | 1460             | 22.2           | 21.1           | 20.3           | 88.5       | 87.5  | 84.2  | 0.85         | 0.81  | 0.74  | 71.59     | 7.0        | 2.3        | 2.3       | 75                      | 78             |
| Y3A160L - 4  | 20     | 15   | 1460             | 29.8           | 28.3           | 27.3           | 89.9       | 89.2  | 88.7  | 0.85         | 0.82  | 0.75  | 98.12     | 7.0        | 2.3        | 2.3       | 75                      | 90             |

IFL=Full Load Current, IST=Locked Rotor Current, TST=Locked Rotor Torque, TM=Maximum Torque, TFL=Full Load Torque







# Y3A - Series Three-Phase Induction Motor

## Technical Data

### 6 POLE. 1000RPM SYNCHRONOUS SPEED 50Hz

| TYPE        | OUTPUT |      | SPEED<br>r / min | IFL            |                |                | EFFICIENCY |       |       | POWER FACTOR |       |       | TFL<br>Nm | IST<br>IFL | TST<br>TFL | TM<br>IFL | NOISE<br>LEVEL<br>(dBA) | WEIGHT<br>(kg) |
|-------------|--------|------|------------------|----------------|----------------|----------------|------------|-------|-------|--------------|-------|-------|-----------|------------|------------|-----------|-------------------------|----------------|
|             | HP     | kw   |                  | 380V<br>(AMPS) | 380V<br>(AMPS) | 400V<br>(AMPS) | 100%FL     | 75%FL | 50%FL | 100%FL       | 75%FL | 50%FL |           |            |            |           |                         |                |
| Y3A 711-6   | 0.25   | 0.18 | 900              | 0.7            | 0.7            | 0.7            | 57.0       | 57.0  | 53.1  | 0.66         | 0.60  | 0.52  | 1.91      | 4.0        | 1.9        | 2.0       | 52                      | 6              |
| Y3A 712-6   | 0.37   | 0.25 | 900              | 0.9            | 0.9            | 0.8            | 60.0       | 59.9  | 55.2  | 0.68         | 0.60  | 0.53  | 2.65      | 4.0        | 1.9        | 2.0       | 52                      | 6.3            |
| Y3A 801-6   | 0.5    | 0.37 | 900              | 1.3            | 1.2            | 1.2            | 63.0       | 63.0  | 55.0  | 0.70         | 0.62  | 0.53  | 3.93      | 4.7        | 1.9        | 2.0       | 54                      | 10             |
| Y3A 802-6   | 0.75   | 0.55 | 900              | 1.8            | 1.7            | 1.6            | 66.0       | 66.5  | 64.2  | 0.72         | 0.62  | 0.53  | 5.84      | 4.7        | 1.9        | 2.1       | 54                      | 11             |
| Y3A 904-6   | 1      | 0.75 | 910              | 2.3            | 2.1            | 2.1            | 70.0       | 70.5  | 65.0  | 0.72         | 0.62  | 0.53  | 7.87      | 5.5        | 2.0        | 2.1       | 57                      | 13             |
| Y3A 90L-6   | 1.5    | 1.1  | 910              | 3.1            | 3.0            | 2.9            | 73.3       | 74.0  | 70.5  | 0.73         | 0.64  | 0.53  | 11.54     | 5.5        | 2.0        | 2.1       | 57                      | 14             |
| Y3A 100L-6  | 2      | 1.5  | 940              | 3.9            | 3.7            | 3.5            | 77.5       | 77.0  | 75.1  | 0.76         | 0.69  | 0.57  | 15.24     | 5.5        | 2.0        | 2.1       | 61                      | 23             |
| Y3A 112M-6  | 3      | 2.2  | 940              | 5.5            | 5.2            | 5.0            | 80.0       | 79.5  | 77.7  | 0.76         | 0.71  | 0.59  | 22.35     | 6.5        | 2.1        | 2.1       | 65                      | 25             |
| Y3A 132S-6  | 4      | 3    | 960              | 7.2            | 6.8            | 6.6            | 82.1       | 82.0  | 78.0  | 0.77         | 0.72  | 0.59  | 29.84     | 6.5        | 2.1        | 2.1       | 69                      | 28             |
| Y3A 132M1-6 | 5.5    | 4    | 960              | 9.5            | 9.0            | 8.7            | 83.0       | 82.8  | 80.6  | 0.77         | 0.72  | 0.62  | 39.79     | 8.5        | 2.1        | 2.1       | 69                      | 45             |
| Y3A 132M2-6 | 7.5    | 5.5  | 960              | 12.5           | 11.9           | 11.5           | 85.4       | 85.0  | 82.7  | 0.78         | 0.73  | 0.64  | 54.71     | 6.5        | 2.1        | 2.1       | 69                      | 55             |
| Y3A 160M-6  | 10     | 7.5  | 970              | 16.8           | 16.0           | 15.4           | 87.0       | 87.0  | 86.5  | 0.78         | 0.76  | 0.64  | 73.84     | 6.5        | 2.1        | 2.1       | 73                      | 78             |
| Y3A 160L-6  | 15     | 11   | 970              | 23.7           | 22.5           | 21.7           | 88.3       | 89.0  | 88.0  | 0.80         | 0.77  | 0.64  | 108.30    | 6.5        | 2.1        | 2.1       | 73                      | 90             |

## Technical Data

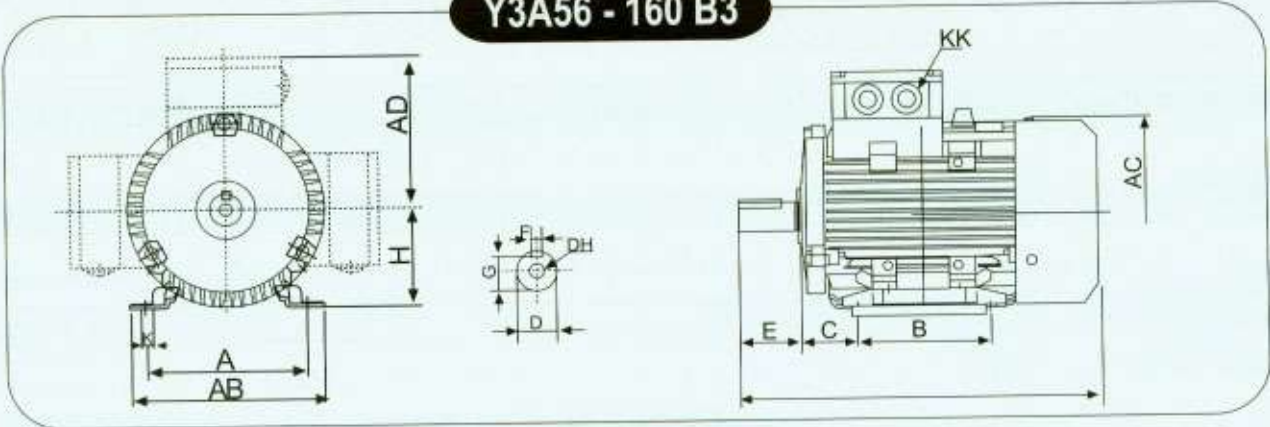
### 8 POLE. 750RPM SYNCHRONOUS SPEED 50Hz

| TYPE        | OUTPUT |      | SPEED<br>r / min | IFL            |                |                | EFFICIENCY |       |       | POWER FACTOR |       |       | TFL<br>Nm | IST<br>IFL | TST<br>TFL | TM<br>IFL | NOISE<br>LEVEL<br>(dBA) | WEIGHT<br>(kg) |
|-------------|--------|------|------------------|----------------|----------------|----------------|------------|-------|-------|--------------|-------|-------|-----------|------------|------------|-----------|-------------------------|----------------|
|             | HP     | kw   |                  | 380V<br>(AMPS) | 380V<br>(AMPS) | 400V<br>(AMPS) | 100%FL     | 75%FL | 50%FL | 100%FL       | 75%FL | 50%FL |           |            |            |           |                         |                |
| Y3A 801-8   | 0.25   | 0.18 | 690              | 0.9            | 0.8            | 0.8            | 52.0       | 49.5  | 44.0  | 0.61         | 0.56  | 0.44  | 2.49      | 3.3        | 1.8        | 1.9       | 52                      | 10             |
| Y3A 802-8   | 0.37   | 0.25 | 690              | 1.1            | 1.1            | 1.0            | 54.6       | 51.6  | 46.0  | 0.61         | 0.56  | 0.45  | 3.46      | 3.3        | 1.8        | 1.9       | 52                      | 11             |
| Y3A 90S-8   | 0.4    | 0.37 | 690              | 1.5            | 1.4            | 1.3            | 62.8       | 62.2  | 54.0  | 0.61         | 0.57  | 0.46  | 5.12      | 4.0        | 1.8        | 1.9       | 56                      | 13             |
| Y3A 90L-8   | 0.75   | 0.55 | 690              | 2.2            | 2.0            | 2.0            | 63.5       | 61.6  | 56.5  | 0.61         | 0.59  | 0.46  | 7.61      | 4.0        | 1.8        | 2.0       | 56                      | 14             |
| Y3A 100L1-8 | 1      | 0.75 | 700              | 2.4            | 2.2            | 2.2            | 72.1       | 71.8  | 64.0  | 0.67         | 0.60  | 0.47  | 10.23     | 4.0        | 1.8        | 2.0       | 59                      | 23             |
| Y3A 100L2-8 | 1.5    | 1.1  | 700              | 3.3            | 3.1            | 3.0            | 74.0       | 74.5  | 68.0  | 0.69         | 0.62  | 0.47  | 15.00     | 5.0        | 1.8        | 2.0       | 59                      | 25             |
| Y3A 112M-8  | 2      | 1.5  | 700              | 4.3            | 4.1            | 4.0            | 76.0       | 77.0  | 74.5  | 0.69         | 0.62  | 0.46  | 20.46     | 5.0        | 1.8        | 2.0       | 61                      | 28             |
| Y3A 132S-8  | 3      | 2.2  | 710              | 5.9            | 5.6            | 5.4            | 79.0       | 79.2  | 77.2  | 0.72         | 0.63  | 0.5   | 29.59     | 6.0        | 1.8        | 2.0       | 64                      | 45             |
| Y3A 132M-8  | 4      | 3    | 710              | 7.7            | 7.3            | 7.1            | 79.9       | 81.0  | 80.0  | 0.74         | 0.66  | 0.54  | 40.35     | 6.0        | 1.8        | 2.0       | 64                      | 55             |
| Y3A 160M1-8 | 5.5    | 4    | 720              | 10.0           | 9.5            | 9.2            | 82.0       | 82.0  | 80.6  | 0.74         | 0.66  | 0.56  | 53.06     | 6.0        | 1.9        | 2.0       | 68                      | 69             |
| Y3A 160M2-8 | 7.5    | 5.5  | 720              | 13.3           | 12.6           | 12.1           | 84.0       | 84.0  | 83.0  | 0.75         | 0.68  | 0.56  | 72.59     | 6.0        | 2.0        | 2.0       | 68                      | 78             |
| Y3A 160L-8  | 10     | 7.5  | 720              | 17.6           | 16.8           | 16.2           | 86.1       | 87.0  | 85.9  | 0.75         | 0.69  | 0.56  | 99.50     | 6.0        | 2.0        | 2.0       | 68                      | 90             |

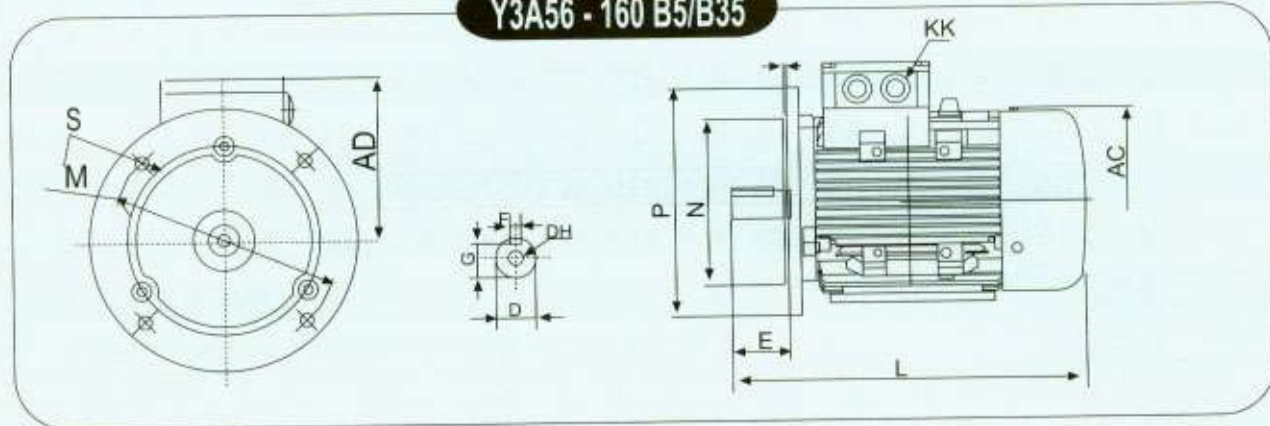
IFL=Full Load Current . IST=Locked Rotor Current . TST=Locked Rotor Torque . TM=Maximum Torque . TFL=Full Load Torque



## Y3A56 - 160 B3



## Y3A56 - 160 B5/B35

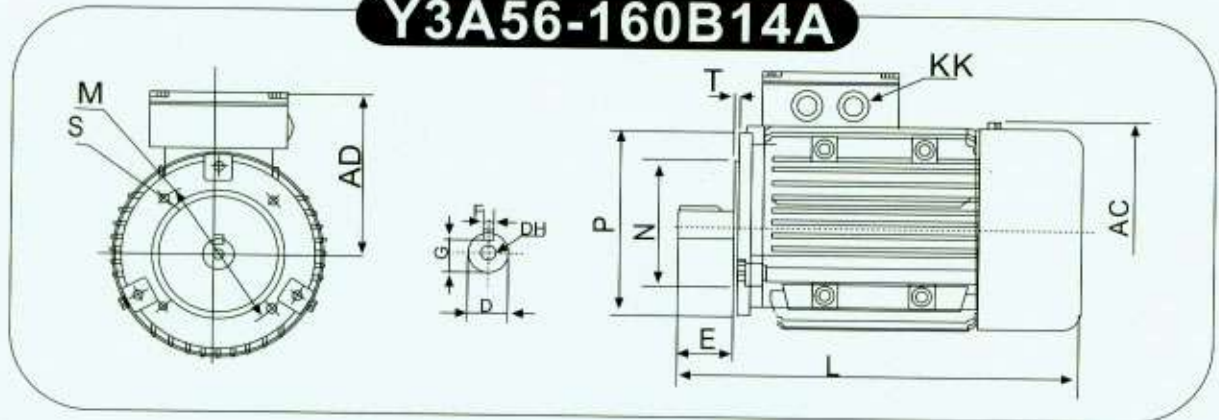


### Y3A56-160 B3 . B5/B35

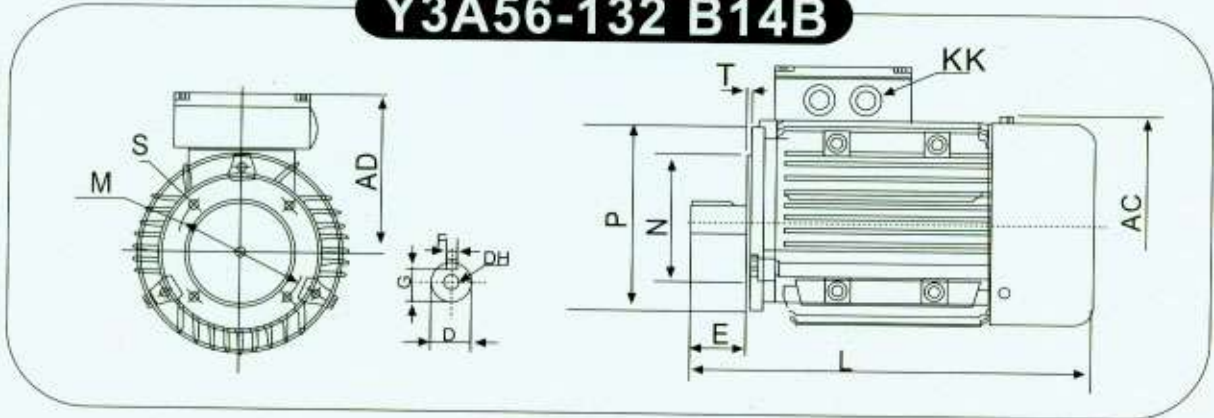
| Frame     | A   | AB  | AC  | AD  | B   | C   | D  | DH     | E   | F  | G    | H   | K   | KK        |        | L   | M   | N   | P   | S  | T   |
|-----------|-----|-----|-----|-----|-----|-----|----|--------|-----|----|------|-----|-----|-----------|--------|-----|-----|-----|-----|----|-----|
|           |     |     |     |     |     |     |    |        |     |    |      |     |     | METRIC    | PG     |     |     |     |     |    |     |
| Y3A 56    | 90  | 115 | 110 | 100 | 71  | 36  | 9  | M4X12  | 20  | 3  | 7.2  | 56  | 5.8 | 1-M20X1.5 | 1-PG11 | 170 | 100 | 80  | 120 | 7  | 3   |
| Y3A 63    | 100 | 135 | 130 | 115 | 80  | 40  | 11 | M4X12  | 23  | 4  | 8.5  | 63  | 7   | 1-M20X1.5 | 1-PG11 |     | 115 | 95  | 140 | 10 | 3   |
| Y3A 71    | 112 | 150 | 145 | 120 | 90  | 45  | 14 | M5X12  | 30  | 5  | 11   | 71  | 7   | 1-M20X1.5 | 1-PG11 | 250 | 130 | 110 | 160 | 10 | 3.5 |
| Y3A 80    | 125 | 165 | 175 | 145 | 100 | 50  | 19 | M6X16  | 40  | 6  | 15.5 | 80  | 10  | 1-M25X1.5 | 1-PG16 |     | 165 | 130 | 200 | 12 | 3.5 |
| Y3A 90S   | 140 | 180 | 195 | 155 | 100 | 56  | 24 | M8X19  | 50  | 8  | 20   | 90  | 10  | 1-M25X1.5 | 1-PG16 | 315 | 165 | 130 | 200 | 12 | 3.5 |
| Y3A 90 L  | 140 | 180 | 195 | 155 | 125 | 56  | 24 | M8X19  | 50  | 8  | 20   | 90  | 10  | 1-M25X1.5 | 1-PG16 |     | 165 | 130 | 200 | 12 | 3.5 |
| Y3A 100L  | 160 | 205 | 215 | 180 | 140 | 63  | 28 | M10X22 | 60  | 8  | 24   | 100 | 12  | 1-M32X1.5 | 1-PG21 | 385 | 215 | 180 | 250 | 15 | 4   |
| Y3A 112 M | 190 | 230 | 240 | 190 | 140 | 70  | 28 | M10X22 | 60  | 8  | 24   | 112 | 12  | 2-M32X1.5 | 2-PG21 |     | 215 | 180 | 250 | 15 | 4   |
| Y3A 132S  | 216 | 270 | 275 | 210 | 140 | 89  | 38 | M12X28 | 80  | 10 | 33   | 132 | 12  | 2-M32X1.5 | 2-PG21 | 470 | 265 | 230 | 300 | 15 | 4   |
| Y3A 132 M | 216 | 270 | 275 | 210 | 178 | 89  | 38 | M12X28 | 80  | 10 | 33   | 132 | 12  | 2-M32X1.5 | 2-PG21 |     | 265 | 230 | 300 | 15 | 4   |
| Y3A 160M  | 254 | 320 | 330 | 255 | 210 | 108 | 42 | M16X36 | 110 | 12 | 37   | 160 | 15  | 2-M40X1.5 | 2-PG29 | 615 | 300 | 250 | 350 | 19 | 5   |
| Y3A 160 L | 254 | 320 | 330 | 255 | 254 | 108 | 42 | M16X36 | 110 | 12 | 37   | 160 | 15  | 2-M40X1.5 | 2-PG29 |     | 300 | 250 | 350 | 19 | 5   |



## Y3A56-160B14A



## Y3A56-132 B14B



### Y3A56-160 B14A . B14B

| Frame    | AC  | AD  | D  | DH     | E   | F  | G    | METRIC    | KK      | PG | L   | B14A |     |     |     |     | B14B |     |     |     |     |
|----------|-----|-----|----|--------|-----|----|------|-----------|---------|----|-----|------|-----|-----|-----|-----|------|-----|-----|-----|-----|
|          |     |     |    |        |     |    |      |           |         |    |     | M    | N   | P   | S   | T   | M    | N   | P   | S   | T   |
| Y3A 56   | 110 | 100 | 9  | M4X12  | 20  | 3  | 7.2  | 1-M20X1.5 | 1-PG 11 |    | 170 | 65   | 50  | 80  | M5  | 2.5 | 85   | 70  | 105 | M6  | 2.5 |
| Y3A 63   | 130 | 115 | 11 | M4X12  | 23  | 4  | 8.5  | 1-M20X1.5 | 1-PG 11 |    | 225 | 75   | 60  | 90  | M5  | 2.5 | 85   | 70  | 105 | M6  | 2.5 |
| Y3A 71   | 145 | 120 | 14 | M5X12  | 30  | 5  | 11   | 1-M20X1.5 | 1-PG 11 |    | 250 | 85   | 70  | 105 | M6  | 2.5 | 115  | 95  | 140 | M8  | 3   |
| Y3A 80   | 175 | 145 | 19 | M6X12  | 40  | 6  | 15.5 | 1-M25X1.5 | 1-PG 16 |    | 295 | 100  | 80  | 120 | M6  | 3   | 130  | 110 | 160 | M8  | 3.5 |
| Y3A 90S  | 195 | 155 | 24 | M8X19  | 50  | 8  | 20   | 1-M25X1.5 | 1-PG 16 |    | 315 | 115  | 95  | 140 | M8  | 3   | 130  | 110 | 160 | M8  | 3.5 |
| Y3A 90L  | 195 | 155 | 24 | M8X19  | 50  | 8  | 20   | 1-M25X1.5 | 1-PG 16 |    | 340 | 115  | 95  | 140 | M8  | 3   | 130  | 110 | 160 | M8  | 3.5 |
| Y3A 100L | 215 | 180 | 28 | M10X22 | 60  | 8  | 24   | 1-M32X1.5 | 1-PG 21 |    | 385 | 130  | 110 | 160 | M8  | 3.5 | 165  | 130 | 200 | M10 | 3.5 |
| Y3A 112M | 240 | 190 | 28 | M10X22 | 60  | 8  | 24   | 2-M32X1.5 | 2-PG 21 |    | 400 | 130  | 110 | 160 | M8  | 3.5 | 165  | 130 | 200 | M10 | 3.5 |
| Y3A 132S | 272 | 210 | 38 | M12X28 | 80  | 10 | 33   | 2-M32X1.5 | 2-PG 21 |    | 470 | 165  | 130 | 200 | M10 | 3.5 | 215  | 180 | 250 | M12 | 4   |
| Y3A 132M | 272 | 210 | 38 | M12X28 | 80  | 10 | 33   | 2-M32X1.5 | 2-PG 21 |    | 510 | 166  | 130 | 200 | M10 | 3.5 | 215  | 180 | 250 | M12 | 4   |
| Y3A 160M | 330 | 255 | 42 | M16X36 | 110 | 12 | 37   | 2-M40X1.5 | 2-PG 29 |    | 615 | 215  | 180 | 250 | M12 | 4   |      |     |     |     |     |
| Y3A 160L | 330 | 255 | 42 | M16X36 | 110 | 12 | 37   | 2-M40X1.5 | 2-PG 29 |    | 670 | 215  | 180 | 250 | M12 | 4   |      |     |     |     |     |



