

**cemp**

Flameproof  
Motors



**Ex nA**

# TCN IE3 Motor Range



A Regal Brand

**REGAL**

## TCN SERIES

To norms IEC 60079-0, -15

IEC 60034, IEC 60072

Ex nA

ATEX

3G Category

IEC Ex certified

C00 Europe Available

Cast Iron

Group IIB, IIC

Temperature Class T3

Protection IP55, IP56, IP65, IP66

Frame size from 80 to 355 (IEC)

Power from 0,75 to 375 kW

Pole 2, 4, 6, 8



Ventilated & with forced ventilation

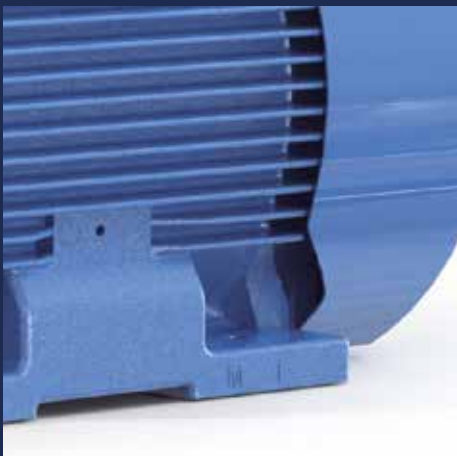
## TECHNICAL FEATURES

- Three-phase squirrel cage asynchronous motors
- Totally enclosed fan cooled, IP55 (TEFC) - IE3 efficiency
- Motor dimensions compliant with IEC 60072 standard
- Multi-voltage power supply
- Class F insulation
- PTC thermistors
- Terminal box designed to be rotated by 90° in 4 different positions
- High corrosion protection:
  - internal anti-rust coating and external paint coating for industrial environment
  - stainless steel nameplate
  - anti corrosion plated fasteners
- Steel fan cover
- Standard motors equipped with radial deep groove open ball bearings
- Low friction dust seals
- Life lubricated ball bearings or greasing nipples
- Inverter Duty

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**marathon**<sup>TM</sup>  
Motors

|  |      |  |          |       |             |      |          |                      |    |
|--|------|--|----------|-------|-------------|------|----------|----------------------|----|
|  |      |  |          |       |             |      |          | IEC60034<br>IEC60079 |    |
| 3~ Motor Type TCN 225M 2   |      |  |          |       |             |      |          |                      |    |
| S.No. 1600934001   |      | IP55   | Ins. CLF | IC411 | Ta-20/+40°C |      | Duty S1  |                      |    |
| V  | Conn | Hz   | kW       | A     | rpm         | cosφ | Eff      | IM                   | B3 |
| 400  | D    | 50   | 45.0     | 77.90 | 2976        | 0.89 | IE3-94.0 |                      |    |
| 690  | Y    | 50   |          | 45.03 |             |      | IE3-94.0 |                      |    |
|  II3G ExnA IIC T3 Gc DEMKO 15 ATEX 1627 |      |  |          |       |             |      |          |                      |    |
| Bearings DE 6313 C3 / NDE 6213 C3  |      |  |          |       |             |      |          | YOM 16               |    |
| Relub h2000 g24  |      |  |          |       |             |      |          | 389 Kg               |    |
|   |      | Manufacturer Cemp S.r.l.<br>20030 SENAGO (Milan) - ITALY |          |       |             |      |          |                      |    |



## MECHANICAL

- PROTECTION IP55, IP56, IP65, IP66
- LOW TEMPERATURE (-60°C)
- SPECIAL FLANGES AND SHAFTS
- LOCKED, ROLLER OR SPECIAL BEARINGS
- SPM PROBE (VIBRATIONS MEASUREMENT)
- DOUBLE ENDED SHAFTS
- CABLE GLAND FITTED TO TERMINAL BOX
- CONDENSATION DRAIN HOLES
- GRADE A OR B BALANCING
- RAIN CAP OR SUN SHIELD
- WATER PROTECTION DISK
- AUXILIARY TERMINAL BOX

## ELECTRICAL

- SPECIAL VOLTAGES UP TO 1000V
- SPECIAL FREQUENCIES
- THERMISTORS (PTC)
- RESISTORS (PT100)
- ANTI-CONDENSATION HEATERS
- TROPICALIZED WINDINGS
- ELECTRICAL SPECIAL DESIGNS
- CLASS H INSULATION
- THREE PHASE 2 SPEEDS

## ACCESSORIES

- SUITABLE FOR FREQUENCY CONVERTER DRIVES
- FORCED VENTILATION (IC416)
- ENCODERS (100 - 10000 PPR)
- BEARING SENSORS
- SUITABLE FOR AC DRIVES

# MAIN OPTIONS

**TECHNICAL DATA - 2 POLE MOTORS**

| TYPE  | FRAME SIZE | NOMINAL OUTPUT 50Hz | SPEED 50Hz | 400V | POWER FACTOR 50Hz | EFFICIENCY % | RATED TORQUE 50Hz | STARTING CURRENT | STARTING TORQUE | B/DOWN TORQUE | MOMENT OF INERTIA | WEIGHT |
|---|------------|---------------------|------------|------|-------------------|--------------|-------------------|------------------|-----------------|---------------|-------------------|--------|
|   |            | kW                  | rpm        | A    | cosΦ              | η            | Nm                | Ia/In            | Ma/Mn           | Ia/In         | Kgm <sup>2</sup>  | Kg     |
| 3000/3600rpm, 2-pole, 50/60Hz, IP55, Insulation F/B |            |                     |            |      |                   |              |                   |                  |                 |               |                   |        |
| TCN 80MA02  | 80M        | 0.75                | 2882       | 1.59 | 0.83              | 81.4         | 2.47              | 7.0              | 3.1             | 3.4           | 0.0012            | 18.7   |
| TCN 80MB02  | 80M        | 1.1                 | 2883       | 2.31 | 0.83              | 83.0         | 3.70              | 7.6              | 3.5             | 3.5           | 0.0014            | 19.8   |
| TCN 90S02   | 90S        | 1.5                 | 2901       | 3.04 | 0.84              | 84.8         | 4.91              | 7.8              | 3.5             | 3.6           | 0.0020            | 25.6   |
| TCN 90L02   | 90L        | 2.2                 | 2901       | 4.33 | 0.85              | 86.2         | 7.36              | 8.4              | 3.6             | 3.6           | 0.0025            | 28.7   |
| TCN 100LA02   | 100L       | 3                   | 2906       | 5.73 | 0.87              | 87.2         | 9.80              | 8.4              | 3.6             | 3.9           | 0.0037            | 39.3   |
| TCN 112M02  | 112M       | 4                   | 2918       | 7.27 | 0.90              | 88.1         | 13.4              | 8.4              | 2.5             | 3.5           | 0.0089            | 44.7   |
| TCN 132SA02   | 132S       | 5.5                 | 2941       | 10.2 | 0.87              | 89.2         | 18.2              | 8.1              | 2.4             | 3.5           | 0.0169            | 70.9   |
| TCN 132SB02   | 132S       | 7.5                 | 2938       | 13.5 | 0.89              | 90.1         | 24.2              | 8.2              | 2.5             | 3.5           | 0.0196            | 77.3   |
| TCN 160MB02   | 160M       | 11                  | 2956       | 19.9 | 0.87              | 91.2         | 36.1              | 7.9              | 2.3             | 3.6           | 0.0640            | 135    |
| TCN 160MC02   | 160M       | 15                  | 2955       | 26.4 | 0.89              | 91.9         | 48.2              | 8.2              | 2.4             | 3.5           | 0.0784            | 150    |
| TCN 160LA02   | 160L       | 18.5                | 2954       | 32.0 | 0.90              | 92.4         | 60.3              | 8.2              | 2.4             | 3.5           | 0.0917            | 163    |
| TCN 180M02  | 180M       | 22                  | 2963       | 38.7 | 0.88              | 92.7         | 72.1              | 7.8              | 2.1             | 3.4           | 0.1470            | 211    |
| TCN 200LA02   | 200L       | 30                  | 2973       | 54.3 | 0.85              | 93.3         | 95.8              | 7.5              | 2.1             | 3.3           | 0.2356            | 272    |
| TCN 200LB02   | 200L       | 37                  | 2973       | 65.5 | 0.87              | 93.7         | 120               | 7.4              | 2.1             | 3.1           | 0.2742            | 291    |
| TCN 225MA02   | 225M       | 45                  | 2976       | 77.9 | 0.89              | 94.0         | 144               | 7.2              | 1.7             | 3.1           | 0.4032            | 379    |
| TCN 250MA02   | 250M       | 55                  | 2980       | 93.3 | 0.90              | 94.3         | 179               | 7.5              | 1.8             | 3.2           | 0.6618            | 492    |
| TCN 280S02  | 280S       | 75                  | 2982       | 126  | 0.90              | 94.8         | 239               | 7.5              | 1.8             | 3.2           | 1.0851            | 698    |
| TCN 280MA02   | 280M       | 90                  | 2981       | 151  | 0.91              | 95.0         | 287               | 7.3              | 1.8             | 3.0           | 1.1746            | 718    |
| TCN 315S02  | 315S       | 110                 | 2983       | 186  | 0.89              | 95.3         | 358               | 6.9              | 1.7             | 3.0           | 2.1990            | 963    |
| TCN 315MB02   | 315M       | 132                 | 2983       | 224  | 0.89              | 95.5         | 418               | 7.1              | 1.8             | 3.1           | 2.3779            | 1007   |
| TCN 315LA02   | 315L       | 160                 | 2983       | 270  | 0.89              | 95.7         | 513               | 7.1              | 1.8             | 3.1           | 2.6217            | 1065   |
| TCN 315LC02   | 315L       | 200                 | 2984       | 339  | 0.89              | 95.8         | 644               | 7.1              | 1.9             | 3.1           | 2.9086            | 1180   |
| TCN 355M02  | 355M       | 250                 | 2983       | 420  | 0.90              | 95.8         | 800               | 6.8              | 1.7             | 2.8           | 3.8130            | 1612   |
| TCN 355LB02   | 355L       | 315                 | 2983       | 526  | 0.90              | 95.8         | 1014              | 6.9              | 1.8             | 2.8           | 4.5200            | 1771   |
| TCN 355LC02   | 355L       | 355                 | 2986       | 595  | 0.90              | 95.8         | 1133              | 7.9              | 2.2             | 3.2           | 5.5809            | 2002   |

**TECHNICAL DATA - 4 POLE MOTORS**

| TYPE  | FRAME SIZE | NOMINAL OUTPUT 50Hz | SPEED 50Hz | 400V | POWER FACTOR 50Hz | EFFICIENCY % | RATED TORQUE 50Hz | STARTING CURRENT | STARTING TORQUE | B/DOWN TORQUE | MOMENT OF INERTIA | WEIGHT |
|---|------------|---------------------|------------|------|-------------------|--------------|-------------------|------------------|-----------------|---------------|-------------------|--------|
|   |            | kW                  | rpm        | A    | cosΦ              | η            | Nm                | Ia/In            | Ma/Mn           | Ia/In         | Kgm <sup>2</sup>  | Kg     |
| 1500/1800rpm, 4-pole, 50/60Hz, IP55, Insulation F/B |            |                     |            |      |                   |              |                   |                  |                 |               |                   |        |
| TCN 80MB04  | 80M        | 0.75                | 1441       | 1.70 | 0.77              | 82.9         | 4.94              | 6.3              | 2.8             | 2.8           | 0.0022            | 22.5   |
| TCN 90S04   | 90S        | 1.1                 | 1450       | 2.42 | 0.78              | 84.5         | 7.36              | 7.2              | 3.0             | 3.4           | 0.0036            | 27.3   |
| TCN 90L04   | 90L        | 1.5                 | 1449       | 3.23 | 0.78              | 85.6         | 9.83              | 7.4              | 3.2             | 3.5           | 0.0043            | 29.8   |
| TCN 100LA04   | 100L       | 2.2                 | 1462       | 4.51 | 0.81              | 86.9         | 14.6              | 8.0              | 2.7             | 3.2           | 0.0113            | 39.7   |
| TCN 100LB04   | 100L       | 3                   | 1460       | 5.97 | 0.83              | 87.8         | 19.5              | 8.1              | 2.9             | 3.3           | 0.0130            | 43.9   |
| TCN 112MB04   | 112M       | 4                   | 1459       | 7.94 | 0.82              | 88.7         | 26.9              | 8.0              | 2.7             | 3.1           | 0.0194            | 52.3   |
| TCN 132S04  | 132S       | 5.5                 | 1470       | 10.8 | 0.82              | 89.6         | 36.4              | 6.9              | 2.2             | 2.8           | 0.0428            | 80.9   |
| TCN 132M04  | 132M       | 7.5                 | 1467       | 14.4 | 0.83              | 90.4         | 48.6              | 6.8              | 2.3             | 2.7           | 0.0493            | 88.7   |
| TCN 160MB04   | 160M       | 11                  | 1476       | 20.7 | 0.84              | 91.4         | 72.4              | 7.3              | 2.4             | 3.2           | 0.1289            | 150    |
| TCN 160LA04   | 160L       | 15                  | 1476       | 27.8 | 0.85              | 92.1         | 96.5              | 7.5              | 2.5             | 3.2           | 0.1603            | 170    |
| TCN 180M04  | 180M       | 18.5                | 1477       | 35.0 | 0.83              | 92.6         | 121               | 7.1              | 2.2             | 3.1           | 0.2030            | 206    |
| TCN 180LA04   | 180L       | 22                  | 1478       | 41.6 | 0.82              | 93.0         | 145               | 7.5              | 2.4             | 3.3           | 0.2323            | 222    |
| TCN 200LA04   | 200L       | 30                  | 1482       | 54.2 | 0.85              | 93.6         | 192               | 8.0              | 2.6             | 3.1           | 0.4814            | 282    |
| TCN 225S04  | 225S       | 37                  | 1483       | 67.2 | 0.85              | 93.9         | 240               | 7.1              | 2.2             | 2.8           | 0.6189            | 354    |
| TCN 225MA04   | 225M       | 45                  | 1484       | 80.7 | 0.85              | 94.2         | 288               | 7.5              | 2.4             | 2.9           | 0.7446            | 389    |
| TCN 250MA04   | 250M       | 55                  | 1488       | 97.7 | 0.86              | 94.6         | 359               | 7.1              | 2.0             | 3.1           | 1.4804            | 517    |
| TCN 280S04  | 280S       | 75                  | 1489       | 130  | 0.87              | 95.0         | 478               | 6.3              | 2.1             | 2.5           | 2.3240            | 722    |
| TCN 280MA04   | 280M       | 90                  | 1489       | 155  | 0.88              | 95.2         | 574               | 6.1              | 2.0             | 2.4           | 4.5070            | 783    |
| TCN 315S04  | 315S       | 110                 | 1489       | 194  | 0.86              | 95.5         | 717               | 7.1              | 2.0             | 3.1           | 3.4650            | 867    |
| TCN 315MB04   | 315M       | 132                 | 1489       | 231  | 0.86              | 95.6         | 837               | 7.3              | 2.1             | 3.1           | 3.9660            | 993    |
| TCN 315LA04   | 315L       | 160                 | 1489       | 275  | 0.88              | 95.9         | 1028              | 7.3              | 2.2             | 3.1           | 4.8832            | 1165   |
| TCN 315LC04   | 315L       | 200                 | 1489       | 345  | 0.87              | 96.0         | 1291              | 7.2              | 2.2             | 3.0           | 5.2344            | 1223   |
| TCN 355M04  | 355M       | 250                 | 1491       | 424  | 0.89              | 96.0         | 1600              | 7.1              | 1.9             | 2.5           | 9.3060            | 1692   |
| TCN 355LB04   | 355L       | 315                 | 1491       | 529  | 0.90              | 96.0         | 2030              | 7.1              | 1.9             | 2.4           | 18.067            | 1879   |
| TCN 355LC04   | 355L       | 355                 | 1491       | 598  | 0.89              | 96.0         | 2268              | 7.1              | 2.0             | 2.3           | 11.900            | 1953   |

**TECHNICAL DATA - 6 POLE MOTORS**

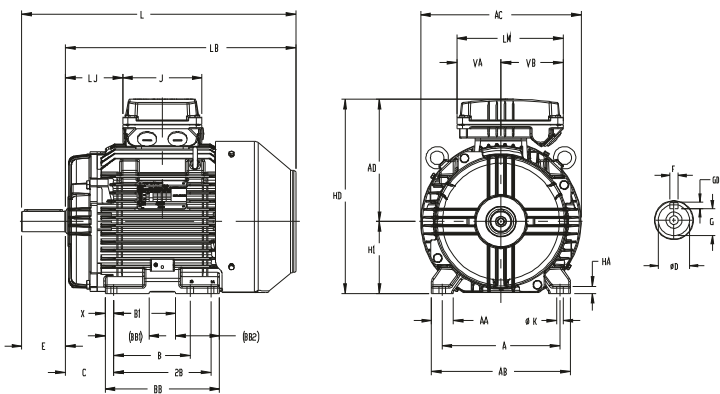
| TYPE  | FRAME SIZE | NOMINAL OUTPUT 50Hz | SPEED 50Hz | 400V | POWER FACTOR 50Hz | EFFICIENCY % | RATED TORQUE 50Hz | STARTING CURRENT | STARTING TORQUE | B/DOWN TORQUE | MOMENT OF INERTIA | WEIGHT |
|---|------------|---------------------|------------|------|-------------------|--------------|-------------------|------------------|-----------------|---------------|-------------------|--------|
|   |            | kW                  | rpm        | A    | cosΦ              | η            | Nm                | Ia/In            | Ma/Mn           | Ia/In         | Kgm <sup>2</sup>  | Kg     |
| 1000/1200rpm, 6-pole, 50/60Hz, IP55, Insulation F/B |            |                     |            |      |                   |              |                   |                  |                 |               |                   |        |
| TCN 90S06   | 90S        | 0.75                | 953        | 2.00 | 0.69              | 78.9         | 7.47              | 5.6              | 3.2             | 3.4           | 0.0042            | 28.0   |
| TCN 90L06   | 90L        | 1.1                 | 947        | 2.84 | 0.69              | 81.0         | 11.3              | 5.4              | 3.2             | 3.2           | 0.0047            | 29.7   |
| TCN 100L06  | 100L       | 1.5                 | 972        | 3.62 | 0.72              | 82.5         | 14.7              | 6.6              | 2.6             | 3.1           | 0.0153            | 37.8   |
| TCN 112M06  | 112M       | 2.2                 | 963        | 5.04 | 0.75              | 84.3         | 22.2              | 6.5              | 2.7             | 3.0           | 0.0168            | 48.2   |
| TCN 132SA06   | 132S       | 3                   | 973        | 6.60 | 0.77              | 85.6         | 29.3              | 5.6              | 1.9             | 2.4           | 0.0413            | 66.3   |
| TCN 132MA06   | 132M       | 4                   | 975        | 8.68 | 0.77              | 86.8         | 40.2              | 6.0              | 2.1             | 2.6           | 0.0542            | 75.9   |
| TCN 132MB06   | 132M       | 5.5                 | 975        | 11.8 | 0.77              | 88.0         | 54.9              | 6.2              | 2.2             | 2.7           | 0.0610            | 86.0   |
| TCN 160M06  | 160M       | 7.5                 | 978        | 14.9 | 0.82              | 89.1         | 72.8              | 5.6              | 1.8             | 2.4           | 0.2077            | 140    |
| TCN 160LB06   | 160L       | 11                  | 980        | 21.9 | 0.80              | 90.3         | 109               | 6.1              | 2.1             | 2.7           | 0.1548            | 163    |
| TCN 180LA06   | 180L       | 15                  | 984        | 30.3 | 0.78              | 91.2         | 145               | 6.9              | 2.4             | 2.9           | 0.3370            | 222    |
| TCN 200LA06   | 200L       | 18.5                | 986        | 36.6 | 0.80              | 91.7         | 181               | 6.3              | 2.1             | 2.6           | 0.5810            | 262    |
| TCN 200LB06   | 200L       | 22                  | 985        | 43.0 | 0.80              | 92.2         | 217               | 6.1              | 2.1             | 2.5           | 0.6381            | 275    |
| TCN 225MA06   | 225M       | 30                  | 987        | 55.9 | 0.83              | 92.9         | 289               | 6.8              | 2.1             | 2.8           | 1.0179            | 374    |
| TCN 250MA06   | 250M       | 37                  | 987        | 68.4 | 0.84              | 93.3         | 361               | 6.6              | 2.2             | 2.7           | 1.8915            | 490    |
| TCN 280S06  | 280S       | 45                  | 989        | 84.1 | 0.82              | 93.7         | 432               | 6.0              | 1.7             | 2.5           | 2.2340            | 599    |
| TCN 280MA06   | 280M       | 55                  | 989        | 101  | 0.84              | 94.1         | 533               | 6.0              | 1.8             | 2.4           | 2.7010            | 648    |
| TCN 315S06  | 315S       | 75                  | 991        | 139  | 0.82              | 94.6         | 720               | 6.0              | 1.8             | 2.4           | 3.8280            | 812    |
| TCN 315MA06   | 315M       | 90                  | 992        | 168  | 0.82              | 95.0         | 864               | 6.1              | 1.9             | 2.4           | 4.4480            | 877    |
| TCN 315LA06   | 315L       | 110                 | 992        | 203  | 0.82              | 95.3         | 1080              | 6.4              | 2.0             | 2.5           | 5.4100            | 973    |
| TCN 315LC06   | 315L       | 132                 | 992        | 244  | 0.82              | 95.5         | 1258              | 6.5              | 2.1             | 2.5           | 6.4560            | 1121   |
| TCN 355MA06   | 355M       | 160                 | 992        | 287  | 0.84              | 95.8         | 1543              | 6.6              | 2.0             | 2.7           | 9.5950            | 1577   |
| TCN 355MB06   | 355M       | 200                 | 992        | 359  | 0.84              | 95.8         | 1938              | 6.8              | 2.1             | 2.7           | 11.214            | 1710   |
| TCN 355LB06   | 355L       | 250                 | 992        | 446  | 0.84              | 95.8         | 2404              | 6.9              | 2.2             | 2.7           | 13.263            | 1875   |

**TECHNICAL DATA - 8 POLE MOTORS**

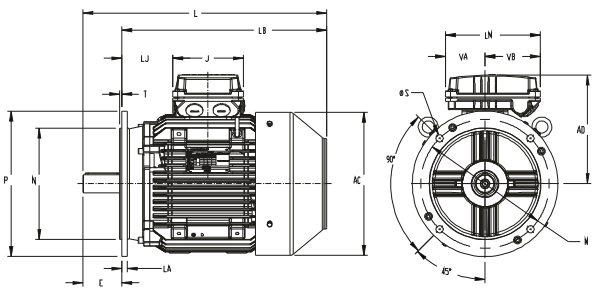
| TYPE  | FRAME SIZE | NOMINAL OUTPUT 50Hz | SPEED 50Hz | 400V | POWER FACTOR 50Hz | EFFICIENCY % | RATED TORQUE 50Hz | STARTING CURRENT | STARTING TORQUE | B/DOWN TORQUE | MOMENT OF INERTIA | WEIGHT |
|---|------------|---------------------|------------|------|-------------------|--------------|-------------------|------------------|-----------------|---------------|-------------------|--------|
|   |            | kW                  | rpm        | A    | cosΦ              | η            | Nm                | Ia/In            | Ma/Mn           | Ia/In         | Kgm <sup>2</sup>  | Kg     |
| 750/900rpm, 8-pole, 50/60Hz, IP55, Insulation F/B |            |                     |            |      |                   |              |                   |                  |                 |               |                   |        |
| TCN 100LA08                                       | 100L       | 0.75                | 721        | 2.06 | 0.70              | 75.0         | 9.88              | 5.1              | 1.9             | 2.7           | 0.0136            | 34.8   |
| TCN 100LB08                                       | 100L       | 1.1                 | 719        | 2.88 | 0.71              | 77.7         | 14.9              | 5.0              | 1.9             | 2.6           | 0.0161            | 37.9   |
| TCN 112M08  | 112M       | 1.5                 | 710        | 3.74 | 0.73              | 79.7         | 20.1              | 5.0              | 1.8             | 2.3           | 0.0315            | 51.6   |
| TCN 132S08  | 132S       | 2.2                 | 725        | 5.38 | 0.72              | 81.9         | 29.5              | 5.0              | 1.8             | 2.3           | 0.0603            | 82.1   |
| TCN 132M08  | 132M       | 3                   | 725        | 7.19 | 0.72              | 83.6         | 39.4              | 5.0              | 1.8             | 2.3           | 0.0716            | 93.4   |
| TCN 160MB08                                       | 160M       | 4                   | 730        | 9.45 | 0.72              | 85.0         | 53.8              | 5.3              | 1.7             | 2.3           | 0.1290            | 127    |
| TCN 160MC08                                       | 160M       | 5.5                 | 730        | 12.6 | 0.73              | 86.5         | 73.4              | 5.3              | 1.7             | 2.3           | 0.1640            | 143    |
| TCN 160L08  | 160L       | 7.5                 | 728        | 16.7 | 0.74              | 87.8         | 98.0              | 5.4              | 1.8             | 2.2           | 0.1990            | 159    |
| TCN 180LA08                                       | 180L       | 11                  | 730        | 23.7 | 0.75              | 89.3         | 147               | 6.4              | 1.7             | 2.6           | 0.3250            | 211    |
| TCN 200LA08                                       | 200L       | 15                  | 739        | 32.9 | 0.73              | 90.4         | 193               | 5.5              | 1.9             | 2.5           | 0.7390            | 285    |
| TCN 225S08  | 225S       | 18.5                | 738        | 37.1 | 0.79              | 91.1         | 241               | 5.2              | 1.7             | 2.2           | 0.8750            | 342    |
| TCN 225MA08                                       | 225M       | 22                  | 738        | 43.4 | 0.80              | 91.5         | 290               | 5.2              | 1.7             | 2.2           | 1.0380            | 373    |
| TCN 250MA08                                       | 250M       | 30                  | 739        | 58.0 | 0.81              | 92.4         | 386               | 5.3              | 1.8             | 2.2           | 2.1990            | 551    |
| TCN 280S08  | 280S       | 37                  | 742        | 71.9 | 0.80              | 92.9         | 480               | 5.8              | 1.8             | 2.2           | 3.4620            | 702    |
| TCN 280M08  | 280M       | 45                  | 742        | 87.4 | 0.80              | 93.5         | 576               | 5.6              | 1.8             | 2.2           | 3.7390            | 733    |
| TCN 315SA08                                       | 315S       | 55                  | 742        | 115  | 0.75              | 92.5         | 720               | 5.2              | 1.7             | 2.2           | 3.8320            | 786    |
| TCN 315SB08                                       | 315S       | 75                  | 743        | 154  | 0.75              | 93.1         | 960               | 5.3              | 1.8             | 2.2           | 4.8690            | 886    |
| TCN 315SC08                                       | 315S       | 90                  | 743        | 184  | 0.76              | 93.4         | 1151              | 5.4              | 1.9             | 2.2           | 5.7120            | 1020   |
| TCN 355MA08                                       | 355M       | 110                 | 743        | 206  | 0.82              | 93.7         | 1439              | 6.1              | 1.4             | 2.4           | 8.0510            | 1428   |
| TCN 355MB08                                       | 355M       | 132                 | 742        | 242  | 0.84              | 94.0         | 1679              | 5.9              | 1.4             | 2.3           | 8.4710            | 1516   |
| TCN 355MC08                                       | 355M       | 150                 | 742        | 274  | 0.84              | 94.2         | 1920              | 5.9              | 1.4             | 2.3           | 10.163            | 1605   |
| TCN 355MD08                                       | 355M       | 160                 | 742        | 292  | 0.84              | 94.3         | 2444              | 6.2              | 1.5             | 2.3           | 10.826            | 1658   |
| TCN 355ME08                                       | 355M       | 185                 | 742        | 335  | 0.84              | 94.5         | 2399              | 6.1              | 1.5             | 2.3           | 12.381            | 1787   |
| TCN 355LA08                                       | 355L       | 200                 | 742        | 361  | 0.85              | 94.6         | 2591              | 6.3              | 1.6             | 2.4           | 13.491            | 1873   |
| TCN 355LB08                                       | 355L       | 220                 | 743        | 397  | 0.85              | 94.6         | 2878              | 6.5              | 1.6             | 2.4           | 15.045            | 1998   |



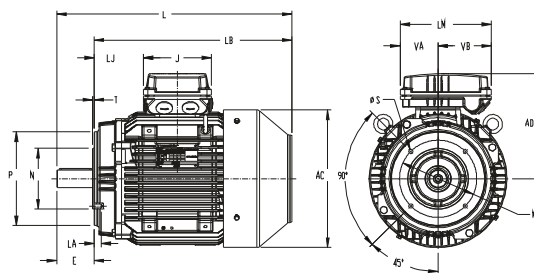
**FRAME 80-160 B3 MOUNTING**



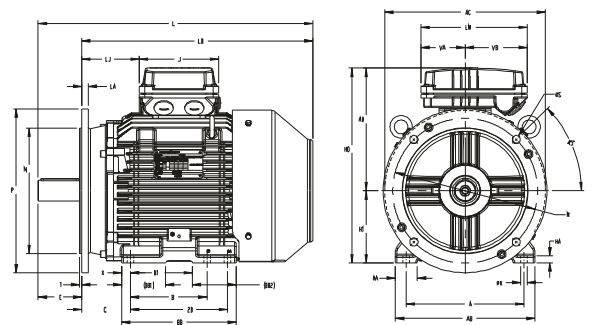
**FRAME 80-160 B5 MOUNTING**



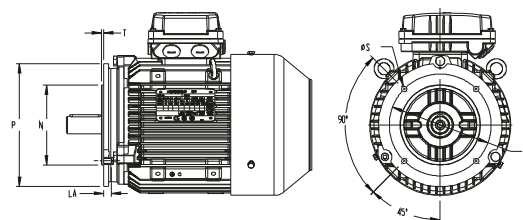
**FRAME 80-132 - B14A MOUNTING**



**FRAME 80-160 B3/B5 MOUNTING**



**FRAME 80-112 B14B MOUNTING**



**DIMENSIONS**

| FRAME       | A   | AA  | AB  | AC  | AD  | BB  | B   | 2B  | (B1) | (B11) | (BB2) | C     | X    | L    | LB   | LJ  | J   | LM  | VA  | VB  |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|-------|-------|------|------|------|-----|-----|-----|-----|-----|
| 80M         | 125 | 30  | 152 | 182 | 160 | 125 | 100 | -   | 75   | 35    | 35    | 50    | 12.5 | 282  | 242  | 39  | 122 | 157 | 67  | 90  |
| 90S/L       | 140 | 35  | 165 | 199 | 168 | 150 | 100 | 125 | 79   | 59    | 59    | 56    | 12.5 | 332  | 282  | 58  | 122 | 157 | 67  | 90  |
| 100L        | 160 | 32  | 192 | 229 | 182 | 170 | 140 | -   | 120  | 50    | 50    | 63    | 15   | 398  | 338  | 72  | 122 | 157 | 67  | 90  |
| 112M        | 190 | 38  | 222 | 256 | 202 | 170 | 140 | -   | 114  | 56    | 56    | 70    | 15   | 399  | 339  | 67  | 146 | 195 | 81  | 114 |
| 132S/M      | 216 | 40  | 255 | 295 | 224 | 210 | 140 | 178 | 130  | 81    | 81    | 89    | 16   | 503  | 423  | 105 | 146 | 195 | 81  | 136 |
| 160M/L      | 254 | 65  | 315 | 353 | 264 | 294 | 210 | 254 | 177  | 97    | 97    | 108   | 20   | 660  | 550  | 150 | 171 | 230 | 94  | 136 |
| 180M/L      | 279 | 75  | 354 | 399 | 278 | 360 | 241 | 279 | 207  | 98    | 136   | 121   | 17   | 742  | 632  | 103 | 171 | 230 | 94  | 140 |
| 200L        | 318 | 80  | 398 | 446 | 315 | 361 | 305 | -   | 213  | 115   | 125   | 133   | 23   | 774  | 664  | 90  | 202 | 241 | 114 | 127 |
| 225S/M 2p   | 356 | 90  | 446 | 491 | 350 | 405 | 286 | 311 | 220  | 114   | 139   | 161.5 | 47   | 832  | 722  | 94  | 202 | 241 | 114 | 127 |
| 225S/M 4-8p | 398 | 90  | 446 | 491 | 350 | 405 | 286 | 311 | 220  | 114   | 139   | 161.5 | 47   | 862  | 722  | 94  | 202 | 241 | 114 | 127 |
| 250S/M 2p   | 406 | 100 | 506 | 542 | 396 | 467 | 311 | 349 | 252  | 148   | 165   | 168   | 50   | 978  | 838  | 92  | 233 | 271 | 129 | 142 |
| 250S/M 4-8p | 406 | 100 | 506 | 542 | 396 | 467 | 311 | 349 | 252  | 148   | 165   | 168   | 50   | 978  | 838  | 92  | 233 | 271 | 129 | 142 |
| 280S/M 2p   | 457 | 100 | 557 | 595 | 421 | 570 | 368 | 419 | 312  | 208   | 208   | 190   | 50.5 | 1151 | 1011 | 110 | 233 | 271 | 129 | 142 |
| 280S/M 4-8p | 457 | 100 | 557 | 595 | 421 | 570 | 368 | 419 | 312  | 208   | 208   | 190   | 50.5 | 1151 | 1011 | 110 | 233 | 271 | 129 | 142 |
| 315S/M 2p   | 508 | 120 | 628 | 654 | 512 | 606 | 406 | 457 | 339  | 193   | 193   | 216   | 74.5 | 1174 | 1034 | 67  | 351 | 436 | 216 | 220 |
| 315S/M 4-8p | 508 | 120 | 628 | 654 | 512 | 606 | 406 | 457 | 339  | 193   | 193   | 216   | 74.5 | 1204 | 1034 | 67  | 351 | 436 | 216 | 220 |
| 315L 2p     | 508 | 120 | 628 | 654 | 512 | 718 | 508 | -   | 429  | 209   | 209   | 216   | 80   | 1287 | 1147 | 67  | 351 | 436 | 216 | 220 |
| 315L 4-8p   | 508 | 120 | 628 | 654 | 512 | 718 | 508 | -   | 429  | 140   | 209   | 216   | 80   | 1317 | 1147 | 67  | 351 | 436 | 216 | 220 |
| 355M/L 2p   | 610 | 130 | 730 | 784 | 637 | 770 | 560 | 630 | 465  | 235   | 235   | 254   | 70   | 1533 | 1393 | 100 | 421 | 535 | 264 | 271 |
| 355M/L 4-8p | 610 | 130 | 730 | 784 | 637 | 770 | 560 | 630 | 465  | 235   | 235   | 254   | 70   | 1533 | 1393 | 100 | 421 | 535 | 264 | 271 |



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