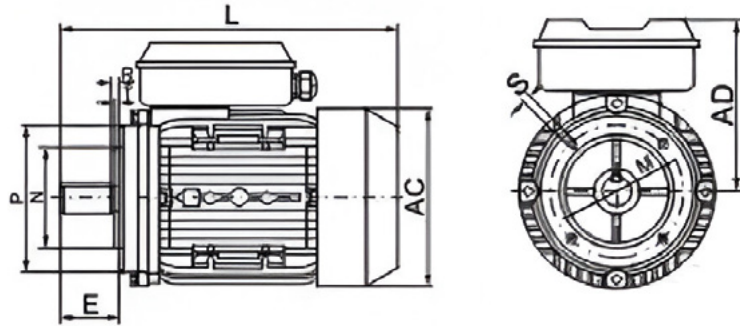




## INSTALLATION AND OVERALL DIMENSIONS

| Frame Size | Mounting Dimensions (mm) |     |     |     |      |     |     |     |   |        |   | Shaft |           |     |           |    |           |      |           | Overall Dimensions (mm) |     |     |      |      |           |
|------------|--------------------------|-----|-----|-----|------|-----|-----|-----|---|--------|---|-------|-----------|-----|-----------|----|-----------|------|-----------|-------------------------|-----|-----|------|------|-----------|
|            | A                        | B   | C   | H   | K    | M   | N   | P   | R | S      | T | D     |           | E   |           | F  |           | G    |           | AB                      | AC  | AD  | HD   | L    |           |
|            |                          |     |     |     |      |     |     |     |   |        |   | 2P    | 4,6,8,10P | 2P  | 4,6,8,10P | 2P | 4,6,8,10P | 2P   | 4,6,8,10P |                         |     |     |      | 2P   | 4,6,8,10P |
| 160M       | 254                      | 210 | 108 | 160 | 14.5 | 300 | 250 | 350 | 0 | 4-18.5 | 5 | 42    |           | 110 |           | 12 |           | 37   |           | 314                     | 314 | 264 | 424  |      | 610       |
| 160L       | 254                      | 254 | 108 | 160 | 14.5 | 300 | 250 | 350 | 0 | 4-18.5 | 5 | 42    |           | 110 |           | 12 |           | 37   |           | 314                     | 314 | 264 | 424  |      | 654       |
| 180M       | 279                      | 241 | 121 | 180 | 14.5 | 300 | 250 | 350 | 0 | 4-18.5 | 5 | 48    |           | 110 |           | 14 |           | 42.5 |           | 349                     | 354 | 283 | 463  |      | 686       |
| 180L       | 279                      | 279 | 121 | 180 | 14.5 | 300 | 250 | 350 | 0 | 4-18.5 | 5 | 48    |           | 110 |           | 14 |           | 42.5 |           | 349                     | 354 | 283 | 463  |      | 724       |
| 200L       | 318                      | 305 | 133 | 200 | 18.5 | 350 | 300 | 400 | 0 | 4-18.5 | 5 | 55    |           | 110 |           | 16 |           | 49   |           | 388                     | 396 | 312 | 512  |      | 769       |
| 225S       | 356                      | 286 | 149 | 225 | 18.5 | 400 | 350 | 450 | 0 | 8-18.5 | 5 | -     | 60        | -   | 140       | -  | 18        | -    | 53        | 431                     | 445 | 333 | 558  | -    | 823       |
| 225M       | 356                      | 311 | 149 | 225 | 18.5 | 400 | 350 | 450 | 0 | 8-18.5 | 5 | 55    | 60        | 110 | 140       | 16 | 18        | 49   | 53        | 431                     | 445 | 333 | 558  | 818  | 848       |
| 250M       | 406                      | 349 | 168 | 250 | 24   | 500 | 450 | 550 | 0 | 8-18.5 | 5 | 60    | 65        | 140 |           | 18 |           | 53   | 58        | 484                     | 484 | 367 | 617  |      | 909       |
| 280S       | 457                      | 368 | 190 | 280 | 24   | 500 | 450 | 550 | 0 | 8-18.5 | 5 | 65    | 75        | 140 |           | 18 | 20        | 58   | 67.5      | 542                     | 546 | 396 | 676  | 959  | 979       |
| 280M       | 457                      | 419 | 190 | 280 | 24   | 500 | 450 | 550 | 0 | 8-18.5 | 5 | 65    | 75        | 140 |           | 18 | 20        | 58   | 67.5      | 542                     | 546 | 396 | 676  | 1010 | 1030      |
| 315S       | 508                      | 406 | 216 | 315 | 28   | 600 | 550 | 660 | 0 | 8-24   | 6 | 65    | 80        | 140 | 170       | 18 | 22        | 58   | 71        | 628                     | 620 | 540 | 855  | 1193 | 1223      |
| 315M       | 508                      | 457 | 216 | 315 | 28   | 600 | 550 | 660 | 0 | 8-24   | 6 | 65    | 80        | 140 | 170       | 18 | 22        | 58   | 71        | 628                     | 620 | 540 | 855  | 1303 | 1333      |
| 315L       | 508                      | 508 | 216 | 315 | 28   | 600 | 550 | 660 | 0 | 8-24   | 6 | 65    | 80        | 140 | 170       | 18 | 22        | 58   | 71        | 628                     | 620 | 540 | 855  | 1303 | 1333      |
| 355M       | 610                      | 560 | 254 | 355 | 28   | 740 | 680 | 800 | 0 | 8-24   | 6 | 75    | 95        | 140 | 170       | 20 | 25        | 67.5 | 86        | 726                     | 701 | 666 | 1021 | 1509 | 1539      |
| 355L       | 610                      | 630 | 254 | 355 | 28   | 740 | 680 | 800 | 0 | 8-24   | 6 | 75    | 95        | 140 | 170       | 20 | 25        | 67.5 | 86        | 726                     | 701 | 666 | 1021 | 1509 | 1539      |

## TECHNICAL DATA IE3-2 POLES

| Model         | Rated Power |     | Rated Current (A) |      |      |      |      |      |      |      |      |      | Speed | Tn   | Eff. | P.F. | Tst/Ttn | Tmax/Tn | Ist/In | Wt. |
|---------------|-------------|-----|-------------------|------|------|------|------|------|------|------|------|------|-------|------|------|------|---------|---------|--------|-----|
|               | kW          | HP  | 220V              | 380V | 660V | 230V | 400V | 690V | 240V | 415V | 720V | rpm  | N.m   | η(%) | cosφ | kg   |         |         |        |     |
| VNKT3-180M-2  | 22          | 30  | 70.0              | 40.5 | 23.3 | 66.9 | 38.5 | 22.3 | 64.1 | 37.1 | 21.4 | 2945 | 71.3  | 92.7 | 0.89 | 2.7  | 3.2     | 8.8     | 198    |     |
| VNKT3-200L1-2 | 30          | 40  | 94.8              | 54.9 | 31.6 | 90.7 | 52.1 | 30.2 | 86.9 | 20.3 | 29.0 | 2950 | 97.1  | 93.3 | 0.89 | 2.0  | 2.7     | 8.2     | 244    |     |
| VNKT3-200L2-2 | 37          | 50  | 116               | 67.4 | 38.8 | 111  | 64.0 | 37.1 | 107  | 61.7 | 35.6 | 2950 | 120   | 93.7 | 0.89 | 2.7  | 3.0     | 8.4     | 261    |     |
| VNKT3-225M-2  | 45          | 60  | 141               | 81.7 | 47.1 | 135  | 77.6 | 45.0 | 19   | 74.8 | 43.1 | 2970 | 145   | 94.0 | 0.89 | 3.2  | 2.6     | 9.4     | 324    |     |
| VNKT3-250M-2  | 55          | 75  | 172               | 100  | 57.3 | 165  | 95   | 54.8 | 158  | 91.2 | 52.5 | 2965 | 177   | 94.3 | 0.89 | 2.5  | 3.2     | 7.8     | 407    |     |
| VNKT3-280S-2  | 75          | 100 | 234               | 135  | 77.8 | 223  | 128  | 74.5 | 214  | 124  | 71.4 | 2970 | 241   | 94.7 | 0.89 | 2.5  | 3.1     | 7.8     | 575    |     |
| VNKT3-280M-2  | 90          | 125 | 279               | 162  | 93.1 | 267  | 156  | 89.1 | 256  | 148  | 85.4 | 2970 | 289   | 95.0 | 0.89 | 2.6  | 3.0     | 7.5     | 600    |     |
| VNKT3-315S-2  | 110         | 150 | 337               | 195  | 112  | 322  | 182  | 107  | 309  | 179  | 103  | 2975 | 353   | 95.2 | 0.9  | 2.1  | 2.8     | 7.4     | 876    |     |
| VNKT3-315M-2  | 132         | 180 | 403               | 234  | 134  | 386  | 222  | 129  | 370  | 214  | 123  | 2975 | 424   | 95.4 | 0.9  | 2.0  | 2.7     | 7.0     | 974    |     |
| VNKT3-315L1-2 | 160         | 220 | 483               | 279  | 161  | 462  | 265  | 154  | 442  | 2556 | 147  | 2975 | 514   | 95.6 | 0.91 | 1.9  | 2.7     | 6.4     | 1009   |     |
| VNKT3-315L2-2 | 200         | 270 | 602               | 349  | 201  | 576  | 331  | 192  | 552  | 319  | 184  | 2975 | 642   | 95.8 | 0.91 | 2.1  | 2.8     | 8.6     | 1132   |     |
| VNKT3-355-2   | 250         | 340 | 753               | 436  | 251  | 820  | 414  | 240  | 690  | 399  | 230  | 2980 | 801   | 95.8 | 0.91 | 1.7  | 2.3     | 8.7     | 1643   |     |
| VNKT3-355L-2  | 315         | 430 | 948               | 549  | 316  | 907  | 522  | 302  | 869  | 503  | 290  | 2980 | 1009  | 95.8 | 0.91 | 1.7  | 2.3     | 6.6     | 1800   |     |

## TECHNICAL DATA IE3-4 POLES

| Model          | Rated Power |     | Rated Current (A) |      |      |      |      |      |      |      |      | Speed | Tn   | Eff. | P.F. | Tst/Ttn | Tmax/Tn | Ist/In | Wt.  |
|----------------|-------------|-----|-------------------|------|------|------|------|------|------|------|------|-------|------|------|------|---------|---------|--------|------|
|                | kW          | HP  | 220V              | 380V | 660V | 230V | 400V | 690V | 240V | 415V | 720V | rpm   | N.m  | η(%) | cosφ |         |         |        | kg   |
| VNKTm3-180M-4  | 18.5        | 25  | 61.0              | 35.3 | 20.3 | 58.3 | 33.5 | 19.4 | 55.9 | 32.3 | 18.6 | 1465  | 121  | 92.6 | 0.86 | 2.5     | 3.4     | 7.8    | 182  |
| VNKTm3-180L-4  | 22          | 30  | 71.2              | 41.8 | 24.1 | 69.0 | 39.7 | 23.0 | 66.2 | 28.3 | 22.1 | 1465  | 143  | 93.0 | 0.86 | 2.6     | 2.7     | 8.0    | 209  |
| VNKTm3-200L-4  | 30          | 40  | 97.8              | 56.6 | 32.6 | 93.6 | 53.8 | 31.2 | 89.7 | 51.8 | 29.9 | 1475  | 194  | 93.6 | 0.86 | 3.0     | 3.7     | 8.6    | 280  |
| VNKTm3-225S-4  | 37          | 50  | 120               | 69.6 | 40.1 | 115  | 66.1 | 38.3 | 110  | 63.7 | 36.7 | 1480  | 239  | 93.9 | 0.86 | 3.4     | 3.3     | 9.4    | 308  |
| VNKTm3-225M-4  | 45          | 60  | 146               | 84.4 | 48.6 | 139  | 80.2 | 46.5 | 134  | 77.3 | 44.5 | 1480  | 190  | 94.2 | 0.86 | 3.2     | 3.5     | 9.0    | 343  |
| VNKTm3-250M-4  | 55          | 75  | 177               | 103  | 59.1 | 170  | 97.6 | 56.6 | 163  | 94.1 | 54.2 | 1485  | 354  | 94.6 | 0.86 | 3.0     | 3.1     | 8.5    | 456  |
| VNKTm3-280S-4  | 75          | 100 | 235               | 136  | 78.5 | 225  | 129  | 75.1 | 216  | 125  | 71.9 | 1480  | 484  | 95.0 | 0.88 | 2.7     | 2.8     | 8.0    | 565  |
| VNKTm3-280M-4  | 90          | 125 | 282               | 163  | 94.0 | 270  | 155  | 89.9 | 258  | 149  | 86.1 | 1485  | 579  | 95.2 | 0.88 | 2.7     | 2.8     | 8.0    | 657  |
| VNKTm3-315S-4  | 110         | 150 | 344               | 199  | 115  | 329  | 189  | 110  | 315  | 182  | 105  | 1480  | 710  | 95.4 | 0.88 | 2.6     | 2.7     | 8.2    | 876  |
| VNKTm3-315M-4  | 132         | 180 | 412               | 238  | 137  | 394  | 226  | 131  | 377  | 218  | 126  | 1480  | 852  | 95.6 | 0.88 | 2.5     | 2.8     | 8.1    | 994  |
| VNKTm3-315L1-4 | 160         | 220 | 492               | 285  | 164  | 471  | 271  | 157  | 451  | 261  | 150  | 1480  | 1032 | 95.8 | 0.89 | 2.3     | 2.7     | 7.8    | 1078 |
| VNKTm3-315L2-4 | 200         | 270 | 614               | 356  | 205  | 588  | 338  | 196  | 563  | 326  | 188  | 1480  | 1291 | 96.0 | 0.89 | 2.1     | 2.5     | 7.3    | 1238 |
| VNKTm3-355M-4  | 250         | 340 | 759               | 440  | 253  | 726  | 418  | 242  | 696  | 403  | 232  | 1490  | 1602 | 96.0 | 0.9  | 2.1     | 2.5     | 7.3    | 1719 |
| VNKTm3-355L-4  | 315         | 430 | 957               | 554  | 319  | 915  | 526  | 305  | 877  | 507  | 292  | 1490  | 2019 | 96.0 | 0.9  | 2.3     | 2.5     | 7.5    | 1823 |

## IE3-6 POLES

| Model          | Rated Power |     | Rated Current (A) |      |      |      |      |      |      |      |      | Speed | Tn   | Eff. | P.F. | Tst/Ttn | Tmax/Tn | Ist/In | Wt.  |
|----------------|-------------|-----|-------------------|------|------|------|------|------|------|------|------|-------|------|------|------|---------|---------|--------|------|
|                | kW          | HP  | 220V              | 380V | 660V | 230V | 400V | 690V | 240V | 415V | 720V | rpm   | N.m  | η(%) | cosφ |         |         |        | kg   |
| VNKTm3-180L-6  | 15          | 20  | 53.3              | 30.9 | 17.8 | 51.0 | 29.3 | 17.0 | 48.8 | 28.2 | 16.3 | 980   | 146  | 91.2 | 0.81 | 2.2     | 2.6     | 6.0    | 186  |
| VNKTm3-200L1-6 | 18.5        | 25  | 65.4              | 37.8 | 21.8 | 62.5 | 35.9 | 20.8 | 59.9 | 34.7 | 20.0 | 980   | 180  | 91.7 | 0.81 | 2.2     | 2.5     | 6.5    | 235  |
| VNKTm3-200L2-6 | 22          | 30  | 76.4              | 44.2 | 25.5 | 73.0 | 42.0 | 24.3 | 70.0 | 40.5 | 23.3 | 980   | 214  | 92.2 | 0.82 | 2.4     | 2.8     | 7.0    | 253  |
| VNKTm3-225M-6  | 30          | 40  | 105               | 60.6 | 34.9 | 100  | 57.5 | 33.4 | 95.9 | 55.5 | 32.0 | 985   | 291  | 92.9 | 0.81 | 2.0     | 2.3     | 6.5    | 295  |
| VNKTm3-250M-6  | 37          | 50  | 124               | 71.7 | 41.3 | 119  | 68.1 | 39.5 | 114  | 65.7 | 37.9 | 985   | 359  | 93.3 | 0.84 | 2.1     | 2.3     | 6.8    | 398  |
| VNKTm3-280S-6  | 45          | 60  | 147               | 84.8 | 48.9 | 140  | 80.6 | 46.7 | 134  | 77.7 | 44.8 | 985   | 436  | 93.7 | 0.86 | 2.0     | 2.3     | 6.5    | 499  |
| VNKTm3-280M-6  | 55          | 75  | 178               | 103  | 59.5 | 171  | 98.1 | 56.9 | 163  | 94.6 | 54.5 | 985   | 533  | 94.1 | 0.86 | 2.0     | 2.3     | 6.0    | 576  |
| VNKTm3-315S-6  | 75          | 100 | 242               | 140  | 80.6 | 231  | 133  | 77.1 | 222  | 128  | 73.9 | 985   | 727  | 94.6 | 0.86 | 2.0     | 2.3     | 5.8    | 864  |
| VNKTm3-315M-6  | 90          | 125 | 289               | 168  | 96.5 | 277  | 159  | 92.3 | 265  | 153  | 88.4 | 985   | 873  | 94.9 | 0.86 | 1.9     | 2.2     | 5.7    | 970  |
| VNKTm3-315L1-6 | 110         | 150 | 353               | 204  | 118  | 338  | 194  | 113  | 324  | 187  | 108  | 985   | 1066 | 95.1 | 0.86 | 2.4     | 2.6     | 7.0    | 1064 |
| VNKTm3-315L2-6 | 132         | 180 | 422               | 244  | 141  | 404  | 232  | 135  | 387  | 224  | 129  | 985   | 1280 | 95.4 | 0.86 | 2.2     | 2.4     | 6.8    | 1174 |
| VNKTm3-355M1-6 | 160         | 220 | 505               | 292  | 168  | 483  | 278  | 161  | 463  | 168  | 154  | 990   | 1543 | 95.6 | 0.87 | 2.0     | 2.2     | 7.0    | 1565 |
| VNKTm3-355M2-6 | 200         | 270 | 630               | 365  | 210  | 602  | 346  | 201  | 577  | 334  | 192  | 990   | 1929 | 95.8 | 0.87 | 2.0     | 2.2     | 7.0    | 1720 |
| VNKTm3-355L-6  | 250         | 340 | 787               | 456  | 262  | 753  | 433  | 251  | 722  | 417  | 241  | 990   | 2412 | 95.8 | 0.87 | 2.0     | 2.2     | 7.0    | 1972 |

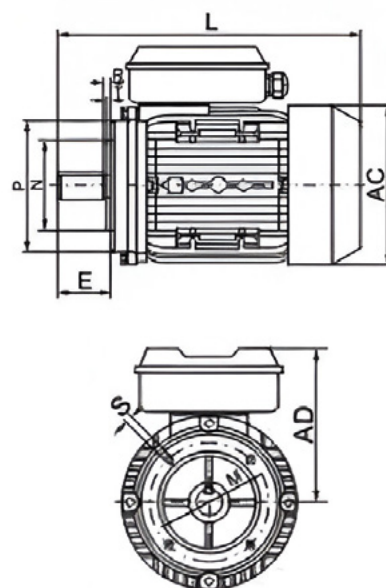
## TECHNICAL DATA

### IE3-8 POLES

| Model         | Rated Power |     | Rated Current (A) |      |      |      |      |      |      |      |      | Speed | Tn     | Eff. | P.F. | Tst/Ttn | Tmax/Tn | Ist/In | Wt.  |
|---------------|-------------|-----|-------------------|------|------|------|------|------|------|------|------|-------|--------|------|------|---------|---------|--------|------|
|               | kW          | HP  | 220V              | 380V | 660V | 230V | 400V | 690V | 240V | 415V | 720V | rpm   | N.m    | η(%) | cosφ |         |         |        | kg   |
| VNKT3-160M1-8 | 4           | 5   | 17.0              | 9.82 | 5.65 | 16.2 | 9.33 | 5.41 | 15.5 | 8.99 | 5.18 | 720   | 53.1   | 84.8 | 0.73 | 2.5     | 2.9     | 5.8    | 112  |
| VNKT3-160M2-8 | 5.5         | 7.5 | 22.6              | 13.1 | 7.54 | 21.6 | 12.4 | 7.21 | 20.7 | 12.0 | 6.91 | 720   | 73.0   | 86.2 | 0.74 | 2.6     | 2.8     | 6.0    | 113  |
| VNKT3-160L-8  | 7.5         | 10  | 30.1              | 17.4 | 10.0 | 28.8 | 16.5 | 9.58 | 27.6 | 15.9 | 9.19 | 720   | 98.9   | 87.3 | 0.75 | 2.7     | 2.9     | 6.5    | 140  |
| VNKT3-180L-8  | 11          | 15  | 42.9              | 24.8 | 14.3 | 41.0 | 23.6 | 13.7 | 39.3 | 22.7 | 13.1 | 730   | 144.6  | 88.6 | 0.76 | 2.6     | 2.7     | 6.7    | 166  |
| VNKT3-200L-8  | 15          | 20  | 57.8              | 33.5 | 19.3 | 55.3 | 31.8 | 18.4 | 53.0 | 30.6 | 17.7 | 730   | 195.8  | 89.6 | 0.76 | 2.6     | 2.7     | 6.7    | 214  |
| VNKT3-225S-8  | 18.5        | 25  | 70.9              | 41.0 | 23.6 | 67.8 | 39.0 | 22.6 | 65.0 | 37.6 | 21.7 | 740   | 240.9  | 90.1 | 0.76 | 2.1     | 2.6     | 7.0    | 255  |
| VNKT3-225M-8  | 22          | 30  | 81.7              | 47.3 | 27.2 | 78.1 | 44.9 | 26.0 | 74.9 | 43.3 | 25.0 | 740   | 286.5  | 90.6 | 0.78 | 2.2     | 2.6     | 5.7    | 284  |
| VNKT3-250M-8  | 30          | 40  | 109               | 63.2 | 36.4 | 104  | 60.0 | 34.8 | 100  | 57.9 | 33.4 | 740   | 390.8  | 91.3 | 0.79 | 2.0     | 2.6     | 5.8    | 380  |
| VNKT3-280S-8  | 37          | 50  | 134               | 77.5 | 44.6 | 128  | 73.6 | 42.7 | 123  | 71.0 | 40.9 | 740   | 480.2  | 91.8 | 0.79 | 2.2     | 2.4     | 6.7    | 496  |
| VNKT3-280M-8  | 45          | 60  | 162               | 93.9 | 54.0 | 155  | 89.2 | 51.7 | 149  | 85.9 | 49.5 | 740   | 584.7  | 92.2 | 0.79 | 1.9     | 2.0     | 6.8    | 520  |
| VNKT3-315S-8  | 55          | 75  | 193               | 112  | 64.2 | 184  | 106  | 61.4 | 177  | 102  | 58.9 | 740   | 714.6  | 92.5 | 0.81 | 1.8     | 2.0     | 6.0    | 900  |
| VNKT3-315M-8  | 75          | 100 | 261               | 151  | 87.0 | 250  | 144  | 83.2 | 239  | 138  | 79.8 | 740   | 968.2  | 93.1 | 0.81 | 1.9     | 2.3     | 6.4    | 1000 |
| VNKT3-315L1-8 | 90          | 125 | 308               | 179  | 103  | 295  | 170  | 98.3 | 283  | 163  | 94.2 | 740   | 1161.5 | 93.4 | 0.82 | 1.8     | 2.0     | 6.4    | 1060 |
| VNKT3-315L2-8 | 110         | 150 | 376               | 218  | 125  | 359  | 201  | 120  | 344  | 199  | 115  | 740   | 1419.6 | 93.7 | 0.82 | 1.8     | 2.0     | 6.4    | 1130 |
| VNKT3-355M1-8 | 132         | 180 | 449               | 260  | 150  | 430  | 247  | 143  | 412  | 238  | 137  | 740   | 1698.9 | 94.0 | 0.82 | 1.8     | 2.0     | 6.4    | 1500 |
| VNKT3-355M2-8 | 160         | 220 | 543               | 314  | 181  | 519  | 199  | 173  | 498  | 288  | 166  | 740   | 2059.3 | 94.3 | 0.82 | 1.8     | 2.0     | 6.4    | 1600 |
| VMKTM3-355L-8 | 200         | 270 | 668               | 387  | 223  | 639  | 368  | 213  | 613  | 354  | 204  | 740   | 2563.8 | 94.6 | 0.83 | 1.8     | 2.0     | 6.4    | 1700 |

## INSTALLATION AND OVERALL DIMENSIONS

| Frame Size | Mounting Dimensions (mm) |     |     |   |     |     | Shaft |     |    |      | Overall Dimensions |     |     |     |     |
|------------|--------------------------|-----|-----|---|-----|-----|-------|-----|----|------|--------------------|-----|-----|-----|-----|
|            | IMB14                    |     |     |   |     |     |       |     |    |      |                    |     |     |     |     |
|            | M                        | N   | P   | R | S   | T   | D     | E   | F  | G    | AB                 | AC  | AD  | HD  | L   |
| 56         | 65                       | 50  | 80  | 0 | M5  | 2,5 | 9     | 20  | 3  | 7,2  | 110                | 110 | 100 | 156 | 195 |
| 63         | 75                       | 60  | 90  | 0 | M5  | 2,5 | 11    | 23  | 4  | 8,5  | 122                | 120 | 104 | 167 | 213 |
| 63-34      | 75                       | 60  | 90  | 0 | M5  | 2,5 | 11    | 23  | 4  | 8,5  | 122                | 120 | 104 | 167 | 251 |
| 71         | 85                       | 70  | 105 | 0 | M6  | 2,5 | 14    | 30  | 5  | 11   | 138                | 139 | 115 | 186 | 250 |
| 80         | 100                      | 80  | 120 | 0 | M6  | 3   | 19    | 40  | 6  | 15,5 | 160                | 158 | 135 | 215 | 285 |
| 90S        | 115                      | 95  | 140 | 0 | M8  | 3   | 24    | 50  | 8  | 20   | 176                | 175 | 145 | 235 | 304 |
| 90L        | 115                      | 95  | 140 | 0 | M8  | 3   | 24    | 50  | 8  | 20   | 176                | 175 | 145 | 235 | 329 |
| 100L       | 130                      | 110 | 160 | 0 | M8  | 3,5 | 28    | 60  | 8  | 24   | 196                | 196 | 155 | 255 | 372 |
| 112M       | 130                      | 110 | 160 | 0 | M8  | 3,5 | 28    | 60  | 8  | 24   | 219                | 219 | 172 | 284 | 394 |
| 132S       | 165                      | 130 | 200 | 0 | M10 | 3,5 | 38    | 80  | 10 | 33   | 256                | 258 | 192 | 324 | 462 |
| 132M       | 165                      | 130 | 200 | 0 | M10 | 3,5 | 38    | 80  | 10 | 33   | 256                | 258 | 192 | 324 | 500 |
| 160M       | 215                      | 180 | 250 | 0 | M12 | 4   | 42    | 110 | 12 | 37   | 302                | 314 | 246 | 406 | 617 |
| 160L       | 215                      | 180 | 250 | 0 | M12 | 4   | 42    | 110 | 12 | 37   | 302                | 314 | 246 | 406 | 661 |



## TECHNICAL DATA (50Hz) IE1-2 POLES

| Model          | Rated Power |      | Rated Current (A) |      |      |      |      |      |      |      |      |      | Speed | Tn   | Eff. | P.F. | Tst/Ttn | Tmax/Tn | Ist/In | Wt. |
|----------------|-------------|------|-------------------|------|------|------|------|------|------|------|------|------|-------|------|------|------|---------|---------|--------|-----|
|                | kW          | HP   | 220V              | 380V | 660V | 230V | 400V | 690V | 240V | 415V | 720V | rpm  | N.m   | η(%) | cosφ | kg   |         |         |        |     |
| VNKTm1-561-2   | 0,09        | 0,12 | 0,59              | 0,34 | 0,20 | 0,56 | 0,32 | 0,19 | 0,54 | 0,31 | 0,18 | 2758 | 0,31  | 59,0 | 0,68 | 2,30 | 2,40    | 6,00    | 3,2    |     |
| VNKTm1-562-2   | 0,12        | 0,16 | 0,70              | 0,41 | 0,23 | 0,67 | 0,39 | 0,22 | 0,65 | 0,37 | 0,22 | 2780 | 41    | 63,0 | 0,71 | 2,30 | 2,40    | 6,00    | 3,4    |     |
| VNKTm1-631-2   | 0,18        | 0,25 | 0,91              | 0,53 | 0,30 | 0,87 | 0,50 | 0,29 | 0,83 | 0,48 | 0,28 | 2715 | 0,63  | 65,0 | 0,80 | 3,00 | 3,20    | 5,00    | 4      |     |
| VNKTm1-632-2   | 0,25        | 0,35 | 1,19              | 0,69 | 0,40 | 1,14 | 0,66 | 0,38 | 1,09 | 0,63 | 0,36 | 2715 | 0,88  | 68,0 | 0,81 | 3,20 | 3,30    | 5,00    | 4,5    |     |
| VNKTm1-711-2   | 0,37        | 0,5  | 1,71              | 0,99 | 0,57 | 1,64 | 0,94 | 0,55 | 1,57 | 0,91 | 0,52 | 2690 | 1,31  | 70,0 | 0,81 | 2,80 | 3,00    | 5,00    | 6      |     |
| VNKTm1-712-2   | 0,55        | 0,75 | 2,41              | 1,40 | 0,80 | 2,31 | 1,33 | 0,77 | 2,21 | 1,28 | 0,74 | 2715 | 1,93  | 73,0 | 0,82 | 3,30 | 3,50    | 5,00    | 6,5    |     |
| VNKTm1-801-2   | 0,75        | 1    | 3,29              | 1,90 | 1,10 | 3,15 | 1,81 | 1,05 | 3,01 | 1,74 | 1,00 | 2730 | 2,62  | 72,1 | 0,83 | 2,80 | 3,80    | 7,00    | 9,3    |     |
| VNKTm1-802-2   | 1,1         | 1,5  | 4,58              | 2,65 | 1,53 | 4,38 | 2,52 | 1,46 | 4,20 | 2,43 | 140  | 2746 | 3,83  | 75,0 | 0,84 | 2,80 | 3,50    | 7,00    | 10     |     |
| VNKTm1-803-2   | 1,5         | 2    | 6,07              | 3,51 | 2,02 | 5,81 | 3,34 | 1,94 | 5,56 | 3,22 | 1,85 | 2770 | 5,17  | 77,2 | 0,84 | 3,00 | 4,00    | 7,50    | 11,5   |     |
| VNKTm1-90S-2   | 1,5         | 2    | 6,07              | 3,51 | 2,02 | 5,81 | 3,34 | 1,94 | 5,56 | 3,22 | 1,85 | 2715 | 5,28  | 77,2 | 0,84 | 2,40 | 2,80    | 7,50    | 14     |     |
| VNKTm1-90L-2   | 2,2         | 3    | 8,52              | 4,93 | 2,84 | 8,15 | 4,69 | 2,72 | 7,81 | 4,52 | 2,60 | 2772 | 7,58  | 79,7 | 0,85 | 2,50 | 2,80    | 7,50    | 16     |     |
| VNKTm1-90L2-2  | 3           | 4    | 11,1              | 6,43 | 3,70 | 10,6 | 6,11 | 3,54 | 10,1 | 5,89 | 3,39 | 2800 | 10,2  | 81,5 | 0,87 | 3,00 | 3,20    | 7,50    | 18,5   |     |
| VNKTm1-100L-2  | 3           | 4    | 11,1              | 6,43 | 3,70 | 10,6 | 6,11 | 3,54 | 10,1 | 5,89 | 3,39 | 2870 | 10,0  | 81,5 | 0,87 | 2,60 | 3,20    | 7,30    | 21     |     |
| VNKTm1-100L2-2 | 4           | 5,5  | 14,4              | 8,31 | 4,78 | 13,7 | 7,90 | 4,58 | 13,1 | 7,61 | 4,39 | 2880 | 13,3  | 83,1 | 0,88 | 2,50 | 2,70    | 7,00    | 26     |     |
| VNKTm1-112M-2  | 4           | 5,5  | 14,4              | 8,31 | 4,78 | 13,7 | 7,90 | 4,58 | 13,1 | 7,61 | 4,39 | 2890 | 13,2  | 83,1 | 0,88 | 2,50 | 2,70    | 7,00    | 27     |     |
| VNKTm1-112M2-2 | 5,5         | 7,5  | 19,4              | 11,2 | 6,45 | 18,5 | 10,6 | 6,17 | 17,7 | 10,2 | 5,93 | 2900 | 18,1  | 84,7 | 0,88 | 2,50 | 2,70    | 7,00    | 30     |     |
| VNKTm1-112M3-2 | 7,5         | 10   | 26,0              | 15,0 | 8,7  | 24,8 | 14,3 | 8,29 | 23,8 | 13,7 | 7,95 | 2900 | 24,7  | 86,0 | 0,88 | 2,50 | 2,70    | 7,50    | 38     |     |
| VNKTm1-132S1-2 | 5,5         | 7,5  | 19,4              | 11,2 | 6,45 | 18,5 | 10,6 | 6,17 | 17,7 | 10,2 | 5,92 | 2910 | 18,0  | 84,7 | 0,88 | 2,50 | 2,70    | 7,50    | 39     |     |
| VNKTm1-132S2-2 | 7,5         | 10   | 26,0              | 15,0 | 8,67 | 24,8 | 14,3 | 8,29 | 23,8 | 13,7 | 7,95 | 2900 | 24,7  | 86,0 | 0,88 | 2,50 | 2,70    | 7,50    | 44     |     |
| VNKTm1-132M1-2 | 9,2         | 12,5 | 30,8              | 17,8 | 10,2 | 29,4 | 16,9 | 9,83 | 28,2 | 16,3 | 9,42 | 2910 | 30,2  | 88,0 | 0,89 | 2,50 | 2,70    | 7,50    | 51     |     |
| VNKTm1-132M2-2 | 11          | 15   | 37,0              | 21,4 | 12,3 | 35,4 | 20,3 | 11,8 | 33,9 | 19,6 | 11,3 | 2919 | 26,0  | 87,6 | 0,89 | 2,50 | 2,70    | 7,50    | 55,5   |     |
| VNKTm1-132M3-2 | 15          | 20   | 49,9              | 28,8 | 16,6 | 47,7 | 27,4 | 15,9 | 45,7 | 26,4 | 15,2 | 2920 | 24,1  | 88,7 | 0,89 | 2,50 | 2,70    | 7,50    | 61     |     |
| VNKTm1-160M1-2 | 11          | 15   | 37,0              | 21,4 | 12,3 | 35,4 | 20,3 | 11,8 | 33,9 | 19,6 | 11,3 | 2950 | 35,6  | 87,6 | 0,89 | 2,70 | 3,00    | 7,80    | 86     |     |
| VNKTm1-160M2-2 | 15          | 20   | 49,9              | 28,8 | 16,6 | 47,7 | 27,4 | 15,9 | 45,7 | 26,4 | 15,2 | 2970 | 48,2  | 88,7 | 0,89 | 2,70 | 3,00    | 7,80    | 87     |     |
| VNKTm1-160L-2  | 18,5        | 25   | 60,4              | 34,9 | 20,1 | 57,7 | 33,2 | 19,2 | 55,3 | 32,0 | 18,4 | 2970 | 59,5  | 89,3 | 0,90 | 2,70 | 3,00    | 7,80    | 94     |     |

## TECHNICAL DATA (50Hz)

### IE1-4 POLES

| Model          | Rated Power |      | Rated Current (A) |      |      |      |      |      |      |      |      | Speed | Tn   | Eff.       | P.F.       | Tst/Ttn | Tmax/Tn | Ist/In | Wt.  |
|----------------|-------------|------|-------------------|------|------|------|------|------|------|------|------|-------|------|------------|------------|---------|---------|--------|------|
|                | kW          | HP   | 220V              | 380V | 660V | 230V | 400V | 690V | 240V | 415V | 720V | rpm   | N.m  | $\eta(\%)$ | $\cos\phi$ |         |         |        | kg   |
| VNKTM1-561-4   | 0,06        | 0,08 | 0,50              | 0,29 | 0,17 | 0,48 | 0,28 | 0,16 | 0,46 | 0,27 | 0,15 | 1371  | 0,42 | 53,0       | 0,59       | 2,30    | 2,40    | 4,50   | 3    |
| VNKTM1-562-4   | 0,09        | 0,12 | 0,70              | 0,41 | 0,23 | 0,67 | 0,39 | 0,22 | 0,65 | 0,37 | 0,22 | 1350  | 0,64 | 55,0       | 0,61       | 2,30    | 2,40    | 4,50   | 3,4  |
| VNKTM1-563-4   | 0,12        | 0,16 | 0,77              | 0,44 | 0,26 | 0,73 | 0,42 | 0,24 | 0,70 | 0,41 | 0,23 | 1380  | 0,83 | 57,0       | 0,72       | 2,30    | 2,40    | 4,50   | 3,5  |
| VNKTM1-631-4   | 0,12        | 0,16 | 0,77              | 0,44 | 0,26 | 0,73 | 0,42 | 0,24 | 0,70 | 0,41 | 0,23 | 1350  | 0,85 | 57,0       | 0,72       | 2,20    | 2,40    | 4,50   | 4    |
| VNKTM1-632-4   | 0,18        | 0,25 | 1,08              | 0,62 | 0,36 | 1,03 | 0,59 | 0,34 | 0,99 | 0,57 | 0,33 | 1340  | 1,28 | 60,0       | 0,73       | 2,20    | 2,40    | 4,50   | 4,9  |
| VNKTM1-633-4   | 0,25        | 0,35 | 1,36              | 0,79 | 0,45 | 1,30 | 0,75 | 0,43 | 1,25 | 0,72 | 0,42 | 1350  | 1,77 | 65,0       | 0,74       | 2,20    | 2,40    | 4,50   | 5,5  |
| VNKTM1-711-4   | 0,25        | 0,35 | 1,36              | 0,79 | 0,45 | 1,30 | 0,75 | 0,43 | 1,25 | 0,72 | 42   | 1390  | 1,72 | 65,0       | 0,74       | 2,40    | 2,80    | 4,50   | 6    |
| VNKTM1-712-4   | 0,37        | 0,5  | 1,93              | 1,12 | 0,64 | 1,85 | 1,06 | 0,62 | 1,77 | 1,02 | 0,59 | 1375  | 2,57 | 67,0       | 0,75       | 2,40    | 2,80    | 4,50   | 6,4  |
| VNKTM1-713-4   | 0,55        | 0,75 | 2,71              | 1,57 | 0,90 | 2,59 | 1,49 | 0,86 | 2,48 | 1,44 | 0,83 | 1380  | 3,81 | 71,0       | 0,75       | 2,50    | 2,80    | 5,00   | 7,5  |
| VNKTM1-801-4   | 0,55        | 0,75 | 2,71              | 1,57 | 0,90 | 2,59 | 1,49 | 0,86 | 2,48 | 1,44 | 0,83 | 1370  | 3,83 | 71,0       | 0,75       | 2,40    | 2,60    | 5,00   | 9    |
| VNKTM1-802-4   | 0,75        | 1    | 3,59              | 2,08 | 1,20 | 3,44 | 1,98 | 1,15 | 3,29 | 1,90 | 1,10 | 1380  | 5,19 | 72,1       | 0,76       | 2,40    | 2,60    | 500    | 10,5 |
| VNKTM1-803-4   | 1,1         | 1,5  | 5,00              | 2,89 | 1,67 | 4,78 | 2,75 | 1,59 | 4,58 | 2,65 | 1,53 | 1380  | 7,61 | 75,0       | 0,77       | 2,40    | 2,60    | 5,00   | 11,5 |
| VNKTM1-90S-4   | 1,1         | 1,5  | 5,00              | 2,89 | 1,67 | 4,78 | 2,75 | 1,59 | 4,58 | 2,65 | 1,53 | 1390  | 7,56 | 75,0       | 0,77       | 2,20    | 2,40    | 6,00   | 13,5 |
| VNKTM1-90L-4   | 1,5         | 2    | 645               | 3,74 | 2,15 | 6,17 | 3,55 | 2,06 | 5,92 | 3,42 | 1,97 | 1400  | 10,2 | 77,2       | 0,79       | 2,20    | 240     | 6,00   | 16   |
| VNKTM1-90L1-4  | 1,85        | 2,5  | 7,88              | 4,56 | 2,63 | 7,54 | 4,33 | 2,51 | 7,22 | 4,18 | 2,41 | 1400  | 12,6 | 78,0       | 0,79       | 2,20    | 2,40    | 6,00   | 17   |
| VNKTM1-90L2-4  | 2,2         | 3    | 8,94              | 5,18 | 2,98 | 8,55 | 4,92 | 2,85 | 8,20 | 4,74 | 2,73 | 1400  | 15,0 | 79,7       | 0,81       | 2,50    | 2,70    | 6,00   | 18   |
| VNKTM1-100L-4  | 2,2         | 3    | 8,94              | 5,18 | 2,98 | 8,55 | 4,92 | 2,85 | 8,20 | 4,74 | 2,73 | 1430  | 14,7 | 79,7       | 0,81       | 2,20    | 2,30    | 7,00   | 20   |
| VNKTM1-100L2-4 | 3           | 4    | 11,8              | 6,82 | 3,93 | 11,2 | 6,48 | 3,76 | 10,8 | 6,25 | 3,60 | 1430  | 20,0 | 81,5       | 0,82       | 2,20    | 2,30    | 7,00   | 24   |
| VNKTM1-100L3-4 | 4           | 5,5  | 15,4              | 8,92 | 5,14 | 14,7 | 8,47 | 4,91 | 14,1 | 8,17 | 4,71 | 1420  | 26,9 | 83,1       | 0,82       | 2,50    | 2,70    | 7,00   | 29   |
| VNKTM1-112M-4  | 4           | 5,5  | 15,4              | 8,92 | 5,14 | 14,7 | 8,47 | 4,91 | 14,1 | 8,17 | 4,71 | 1430  | 26,7 | 83,1       | 82         | 2,40    | 3,00    | 7,00   | 30,5 |
| VNKTM1-112M2-4 | 5,5         | 7,5  | 20,5              | 11,8 | 6,84 | 19,6 | 11,2 | 6,55 | 18,8 | 10,8 | 6,27 | 1435  | 36,6 | 84,7       | 0,83       | 2,70    | 3,00    | 7,00   | 41   |
| VNKTM1-132S-4  | 5,5         | 7,5  | 20,5              | 11,8 | 6,84 | 19,6 | 11,2 | 6,55 | 18,8 | 10,8 | 6,27 | 1440  | 36,5 | 84,7       | 0,83       | 2,80    | 3,20    | 7,50   | 44   |
| VNKTM1-132M-4  | 7,5         | 10   | 27,2              | 15,7 | 9,08 | 26,0 | 14,9 | 8,69 | 24,9 | 14,4 | 8,33 | 1450  | 49,4 | 86,0       | 0,84       | 2,80    | 3,20    | 7,50   | 54,5 |
| VNKTM1-132M2-4 | 9,2         | 12,5 | 32,8              | 19,0 | 10,9 | 31,4 | 18,0 | 10,4 | 30,1 | 17,4 | 10,0 | 1460  | 60,2 | 87,5       | 0,84       | 2,80    | 3,20    | 750    | 62   |
| VNKTM1-132M3-4 | 11          | 15   | 39,2              | 22,7 | 13,0 | 37,5 | 21,5 | 12,5 | 35,9 | 20,8 | 11,9 | 1460  | 72,0 | 87,6       | 0,84       | 2,50    | 2,70    | 7,00   | 66   |
| VNKTM1-160M-4  | 11          | 15   | 39,2              | 22,7 | 13,0 | 37,5 | 21,5 | 12,5 | 35,9 | 20,8 | 11,9 | 1460  | 72,0 | 87,6       | 0,84       | 2,40    | 3,50    | 7,50   | 89   |
| VNKTM1-160L-4  | 15          | 20   | 52,2              | 30,2 | 17,4 | 49,9 | 28,7 | 16,6 | 47,8 | 27,6 | 15,9 | 1460  | 98,1 | 88,7       | 0,85       | 2,40    | 3,50    | 7,50   | 108  |