## Motor type NP500KS IC06-17-37-86W

| Wind. | Base speed (rpm) | | | | | | | | P | Max | I | T | η | $R_{arm}$ | $L_{arm}$ | Select. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N°. | 400 | 440 | 460 | 500 | 520 | 600 | 700 | 750 | (kW) | rpm* | (A) | (Nm) | (%) | (Ohm) | (mH) | code |
| | 742 | | | | | | | | **828** | 1310 | 2215 | 10669 | 93,49 | | 0,078 | |
| | | 819 | | | | | | | **905** | 1350 | 2194 | 10552 | 93,79 | | 0,078 | |
| 52 | | | 859 | | | | | | **945** | 1350 | 2184 | 10507 | 94,03 | 0,007 | 0,078 | 7 |
| | | | | 937 | | | | | **1020** | 1370 | 2163 | 10397 | 94,29 | | 0,079 | |
| | | | | | 977 | | | | **1057** | 1370 | 2153 | 10343 | 94,41 | | 0,079 | |
| | 692 | | | | | | | | **802** | 1310 | 2152 | 11083 | 93,23 | | 0,088 | |
| | | 765 | | | | | | | **882** | 1320 | 2141 | 11017 | 93,61 | | 0,088 | |
| 53 | | | 801 | | | | | | **922** | 1330 | 2136 | 10996 | 93,86 | 0,008 | 0,088 | 7 |
| | | | | 875 | | | | | **995** | 1330 | 2115 | 10874 | 94,14 | | 0,089 | |
| | | | | | 912 | | | | **1031** | 1340 | 2104 | 10815 | 94,26 | | 0,089 | |
| | | | | | | 1057 | | | **1170** | 1380 | 2062 | 10573 | 94,60 | | 0,090 | |
| | 648 | | | | | | | | **754** | 1280 | 2025 | 11115 | 93,06 | | 0,100 | |
| | | 717 | | | | | | | **832** | 1300 | 2025 | 11098 | 93,41 | | 0,099 | |
| 54 | | | 750 | | | | | | **869** | 1310 | 2019 | 11063 | 93,58 | 0,009 | 0,099 | 7 |
| | | | | 819 | | | | | **941** | 1320 | 2003 | 10976 | 93,97 | | 0,100 | |
| | | | | | 853 | | | | **977** | 1320 | 1998 | 10938 | 94,06 | | 0,100 | |
| | | | | | | 991 | | | **1112** | 1350 | 1961 | 10718 | 94,50 | | 0,100 | |
| | 608 | | | | | | | | **692** | 1320 | 1871 | 10889 | 92,49 | | 0,115 | |
| | | 672 | | | | | | | **759** | 1330 | 1855 | 10787 | 92,99 | | 0,116 | |
| 55 | | | 705 | | | | | | **793** | 1340 | 1850 | 10752 | 93,19 | 0,011 | 0,116 | 7 |
| | | | | 769 | | | | | **861** | 1340 | 1839 | 10690 | 93,60 | | 0,116 | |
| | | | | | 802 | | | | **891** | 1340 | 1829 | 10623 | 93,76 | | 0,116 | |
| | | | | | | 931 | | | **1019** | 1370 | 1802 | 10450 | 94,22 | | 0,117 | |
| | 543 | | | | | | | | **643** | 1150 | 1744 | 11331 | 92,25 | | 0,139 | |
| | | 601 | | | | | | | **708** | 1150 | 1733 | 11263 | 92,86 | | 0,138 | |
| | | | 630 | | | | | | **742** | 1150 | 1733 | 11260 | 93,07 | | 0,138 | |
| 57 | | | | 687 | | | | | **805** | 1160 | 1723 | 11177 | 93,42 | 0,013 | 0,138 | 6 |
| | | | | | 717 | | | | **835** | 1160 | 1717 | 11133 | 93,54 | | 0,138 | |
| | | | | | | 833 | | | **955** | 1180 | 1691 | 10952 | 94,15 | | 0,140 | |
| | | | | | | | 979 | | **1101** | 1200 | 1664 | 10754 | 94,54 | | 0,141 | |
| | | | | | | | | 1051 | **1168** | 1210 | 1643 | 10616 | 94,80 | | 0,142 | |
| | 483 | | | | | | | | **576** | 1070 | 1569 | 11387 | 91,72 | | 0,173 | |
| | | 535 | | | | | | | **637** | 1100 | 1569 | 11380 | 92,29 | | 0,172 | |
| | | | 561 | | | | | | **666** | 1150 | 1564 | 11338 | 92,56 | | 0,172 | |
| 59 | | | | 613 | | | | | **725** | 1200 | 1558 | 11301 | 93,06 | 0,016 | 0,171 | 6 |
| | | | | | 639 | | | | **753** | 1250 | 1553 | 11252 | 93,20 | | 0,172 | |
| | | | | | | 744 | | | **865** | 1270 | 1537 | 11119 | 93,79 | | 0,172 | |
| | | | | | | | 874 | | **1001** | 1270 | 1516 | 10944 | 94,31 | | 0,173 | |
| | | | | | | | | 939 | **1064** | 1300 | 1500 | 10831 | 94,61 | | 0,174 | |
| | 450 | | | | | | | | **542** | 1100 | 1479 | 11488 | 91,58 | | 0,197 | |
| | | 499 | | | | | | | **600** | 1100 | 1479 | 11486 | 92,21 | | 0,195 | |
| | | | 523 | | | | | | **629** | 1100 | 1479 | 11475 | 92,41 | | 0,195 | |
| 60 | | | | 572 | | | | | **686** | 1150 | 1479 | 11456 | 92,76 | 0,018 | 0,194 | 6 |
| | | | | | 596 | | | | **716** | 1200 | 1479 | 11466 | 93,05 | | 0,193 | |
| | | | | | | 693 | | | **825** | 1230 | 1468 | 11359 | 93,62 | | 0,193 | |
| | | | | | | | 816 | | **958** | 1240 | 1452 | 11228 | 94,26 | | 0,194 | |
| | | | | | | | | 877 | **1021** | 1250 | 1442 | 11129 | 94,41 | | 0,194 | |
| | 395 | | | | | | | | **474** | 1000 | 1304 | 11448 | 90,85 | | 0,254 | |
| | | 439 | | | | | | | **525** | 1000 | 1304 | 11432 | 91,46 | | 0,252 | |
| | | | 460 | | | | | | **551** | 1000 | 1304 | 11449 | 91,91 | | 0,251 | |
| 62 | | | | 503 | | | | | **602** | 1050 | 1304 | 11436 | 92,36 | 0,023 | 0,250 | 6 |
| | | | | | 524 | | | | **628** | 1100 | 1304 | 11430 | 92,56 | | 0,249 | |
| | | | | | | 611 | | | **729** | 1100 | 1304 | 11411 | 93,22 | | 0,247 | |
| | | | | | | | 718 | | **853** | 1110 | 1299 | 11349 | 93,88 | | 0,246 | |
| | | | | | | | | 772 | **913** | 1110 | 1293 | 11291 | 94,10 | | 0,246 | |

* by field weakening at constant power

## Motor type NP500KS IC06-17-37-86W

| Wind. | Base speed (rpm) | | | | | | | | P | Max | I | T | η | $R_{arm}$ | $L_{arm}$ | Select. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N°. | 400 | 440 | 460 | 500 | 520 | 600 | 700 | 750 | (kW) | rpm* | (A) | (Nm) | (%) | (Ohm) | (mH) | Code |
| | 350 | | | | | | | | **409** | 870 | 1140 | 11157 | 89,77 | | 0,328 | |
| | | 389 | | | | | | | **454** | 900 | 1140 | 11143 | 90,49 | | 0,325 | |
| | | | 409 | | | | | | **476** | 950 | 1140 | 11137 | 90,80 | | 0,324 | |
| 64 | | | | 447 | | | | | **522** | 1000 | 1140 | 11149 | 91,53 | 0,030 | 0,322 | 6 |
| | | | | | 466 | | | | **544** | 1050 | 1140 | 11144 | 91,77 | | 0,321 | |
| | | | | | | 544 | | | **633** | 1110 | 1140 | 11125 | 92,56 | | 0,317 | |
| | | | | | | | 640 | | **744** | 1110 | 1140 | 11109 | 93,29 | | 0,314 | |
| | | | | | | | | 688 | **796** | 1120 | 1134 | 11048 | 93,58 | | 0,315 | |
| | 328 | | | | | | | | **384** | 800 | 1076 | 11170 | 89,16 | | 0,371 | |
| | | 365 | | | | | | | **426** | 840 | 1076 | 11165 | 90,01 | | 0,367 | |
| | | | 383 | | | | | | **447** | 900 | 1076 | 11163 | 90,38 | | 0,366 | |
| 66 | | | | 419 | | | | | **490** | 920 | 1076 | 11158 | 91,03 | 0,034 | 0,363 | 6 |
| | | | | | 438 | | | | **511** | 950 | 1076 | 11157 | 91,32 | | 0,362 | |
| | | | | | | 511 | | | **595** | 1050 | 1076 | 11132 | 92,12 | | 0,358 | |
| | | | | | | | 602 | | **697** | 1200 | 1071 | 11076 | 93,07 | | 0,356 | |
| | | | | | | | | 648 | **746** | 1200 | 1065 | 11013 | 93,40 | | 0,356 | |

* by field weakening at constant power

**When required max speed at constant power by field weakening is higher than speed indicated in column "max. rpm", please contact SICMEMOTORI**

### Main features

| | | NP500KS6 | NP500KS7 |
|---|---|---|---|
| Field power | W | 5000 | |
| Inertia | $Kgm^2$ | 107 | 109 |
| Max mechanical speed | rpm | 1700 | |
| Weight IC06 | kg | 5770 | 5835 |
| Weight IC17-IC37 | kg | 5500 | 5565 |
| Weight IC86W | kg | 6150 | 6215 |
| DE bearing | roller | NU234-C3 | |
| NDE bearing | ball | 6234-C3 | |

### Blowers data (3x400 V – 50 Hz)

| | | IC06 | IC17-37 | IC86W |
|---|---|---|---|---|
| Blower ac motor | type | 160M4A | -- | 160M2A |
| Power | kW | 11 | -- | 11 |
| Current | A | 21.5 | -- | 20 |
| Poles | N°. | 4 | -- | 2 |
| Dissipated losses | kW | -- | -- | 56 |
| Water flow rate | $m^3/h$ | -- | -- | 13 |
| Water flanges | DIN2566 | -- | -- | DN65 |
| Air flow rate | $m^3/sec$ | -- | 3,55 | -- |
| Static pressure | Pa | -- | 1300 | -- |