# VYBO Electric a.s.

| Data Sheet | No. |
|---|---|
| Three Phase Induction Motor | Drawing No. |

| | |
|---|---|
| Customer | |
| Client reference | |
| Type | 2GDC-400LX-6 131,6kW-1076,1kW |
| Brand | VYBO Electric |

## Identification

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Type: | | 2GDC400LX-6 | | Frame: | 400 | | | | mm |
| Power: | | 131,6-1076,1 | kW | Poles: | 6 | | | | P |
| Speed range (base speed) at armature voltage | 400 V | 106-624 | rpm | Rated Voltage: | 400 | - | 620 | | V |
| | 620 V | 181-872 | | Connection: | | | | | |
| Arm. current: | | 452-2105 | A | Insulation Class: | H | | | | |
| Torque: | | 10806-12840 | Nm | Duty: | S1 | | | | |
| Resistance: | | 0,008-0,189 | Ω | Ambient Temperature: | -20~40°C | | | | |
| Inductance: | | 0,19-4,97 | mH | Altitude: | 1000 m | | | | |
| Efficiency: | | 67,7-93,1 | % | Protection Degree: | IP23 | | | | |
| Weight: | | 4300 | kg | Cooling: | IC06 | | | | |
| Moment of inertia: | | 54,0 | kg/m2 | Mounting: | IM B (On request) | | | | |
| | | | | Vibration: | 2,8 mm/s | | | | |
| | | | | Direction of Rotation: | Both | | | | |
| | | | | Coupling: | Flexible | | | | |
| | | | | Terminal Box: | | | | | |

### Bearing Information

| | DE | Commutator End |
|---|---|---|
| Bearing: | 6230-C3 | 6230-C3 |

### Blower motor data

| Electric supply | F.L.C. (A) | Output (kW) |
|---|---|---|
| 3x380-420 V 50 Hz | 31,57 | 18,96 |

### Notes / Accessories

### Deviation Sheet

| VYBO Electric | Customer |
|---|---|

### Standards

| | |
|---|---|
| Specification: | IEC60034-1 |
| Test: | IEC60034-2 |
| Noise: | IEC60034-9 |
| Vibration: | IEC60034-14 |

### Edition

| Performed | Checked | Date |
|---|---|---|
| | | |

| Item | Changes | Performed | Checked | Date |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Cont. output | Max. electrical speed | Base speed (min-1) at armature voltage (V) | | | | | | Rated armature current | Torque | Efficiency | Armature circuit | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Inductance | Resistance |
| (kW) | (min-1) | 400 | 440 | 470 | 520 | 550 | 620 | (A) | (Nm) | (%) | (mH) | (Ohm) |
| 131,6 | 500 | 106 | | | | | | 457 | 11630 | 67,7 | | |
| 148,9 | 565 | | 120 | | | | | 456 | 11648 | 70,5 | | |
| 163,2 | 615 | | | 130 | | | | 455 | 11754 | 72,2 | 4,97 | 0,189 |
| 186,7 | 700 | | | | 148 | | | 455 | 11791 | 74,7 | | |
| 198,9 | 750 | | | | | 158 | | 454 | 11814 | 76,0 | | |
| 230,5 | 780 | | | | | | 181 | 452 | 11943 | 78,5 | | |
| 184,6 | 660 | 139 | | | | | | 596 | 12428 | 73,4 | | |
| 208,1 | 745 | | 157 | | | | | 595 | 12387 | 75,6 | | |
| 225,4 | 810 | | | 169 | | | | 594 | 12483 | 77,1 | 3,10 | 0,118 |
| 255,0 | 830 | | | | 190 | | | 592 | 12566 | 79,1 | | |
| 272,3 | 830 | | | | | 203 | | 591 | 12574 | 80,2 | | |
| 312,1 | 835 | | | | | | 233 | 588 | 12557 | 82,3 | | |
| 238,7 | 770 | 178 | | | | | | 732 | 12534 | 77,6 | | |
| 267,2 | 770 | | 199 | | | | | 730 | 12565 | 79,5 | | |
| 288,7 | 775 | | | 215 | | | | 728 | 12558 | 80,7 | 2,00 | 0,079 |
| 323,3 | 780 | | | | 241 | | | 725 | 12572 | 82,5 | | |
| 344,8 | 780 | | | | | 256 | | 723 | 12616 | 83,3 | | |
| 392,7 | 785 | | | | | | 293 | 718 | 12563 | 85,1 | | |
| 307,0 | 1170 | 242 | | | | | | 888 | 11874 | 82,7 | | |
| 340,7 | 1245 | | 269 | | | | | 884 | 11845 | 84,1 | | |
| 366,2 | 1250 | | | 291 | | | | 880 | 11785 | 85,0 | 1,18 | 0,048 |
| 408,0 | 1255 | | | | 324 | | | 874 | 11790 | 86,3 | | |
| 432,5 | 1265 | | | | | 339 | | 870 | 11934 | 86,9 | | |
| 487,6 | 1280 | | | | | | 387 | 860 | 11800 | 88,2 | | |
| 409,0 | 1325 | 310 | | | | | | 1151 | 12369 | 85,6 | | |
| 452,9 | 1335 | | 344 | | | | | 1143 | 12316 | 86,7 | | |
| 484,5 | 1340 | | | 369 | | | | 1136 | 12269 | 87,4 | 0,78 | 0,030 |
| 536,5 | 1365 | | | | 412 | | | 1125 | 12201 | 88,5 | | |
| 567,1 | 1380 | | | | | 438 | | 1118 | 12120 | 89,0 | | |
| 636,5 | 1430 | | | | | | 498 | 1101 | 11953 | 90,0 | | |
| 509,0 | 1250 | 387 | | | | | | 1400 | 12327 | 87,6 | | |
| 560,0 | 1265 | | 428 | | | | | 1386 | 12245 | 88,6 | | |
| 596,7 | 1275 | | | 460 | | | | 1376 | 12163 | 89,2 | 0,52 | 0,020 |
| 657,9 | 1290 | | | | 512 | | | 1357 | 12012 | 90,1 | | |
| 692,6 | 1305 | | | | | 544 | | 1345 | 11923 | 90,5 | | |
| 770,1 | 1330 | | | | | | 617 | 1316 | 11693 | 91,4 | | |
| 617,1 | 1130 | 474 | | | | | | 1672 | 12200 | 89,3 | | |
| 676,3 | 1145 | | 525 | | | | | 1649 | 12064 | 90,1 | | |
| 718,1 | 1155 | | | 563 | | | | 1631 | 11931 | 90,6 | 0,32 | 0,014 |
| 784,4 | 1180 | | | | 626 | | | 1599 | 11731 | 91,3 | | |
| 821,1 | 1190 | | | | | 665 | | 1579 | 11573 | 91,7 | | |
| 902,7 | 1235 | | | | | | 754 | 1528 | 11215 | 92,4 | | |
| 752,8 | 1045 | 549 | | | | | | 2020 | 12840 | 90,3 | | |
| 821,1 | 1065 | | 608 | | | | | 1987 | 12655 | 91,0 | | |
| 870,1 | 1075 | | | 651 | | | | 1961 | 12500 | 91,4 | 0,27 | 0,010 |
| 944,5 | 1100 | | | | 725 | | | 1915 | 12210 | 92,1 | | |
| 987,4 | 1120 | | | | | 769 | | 1885 | 12021 | 92,4 | | |
| 1076,1 | 1170 | | | | | | 872 | 1810 | 11553 | 93,0 | | |
| 795,6 | 1490 | 624 | | | | | | 2105 | 11935 | 91,5 | | |
| 859,9 | 1525 | | 690 | | | | | 2056 | 11663 | 92,0 | | |
| 903,7 | 1535 | | | 740 | | | | 2018 | 11443 | 92,4 | 0,19 | 0,008 |
| 972,1 | 1610 | | | | 823 | | | 1950 | 11056 | 92,9 | | |
| 1005,7 | 1630 | | | | | 872 | | 1905 | 10806 | 93,1 | | |

Field loss (hot) = 10249 W