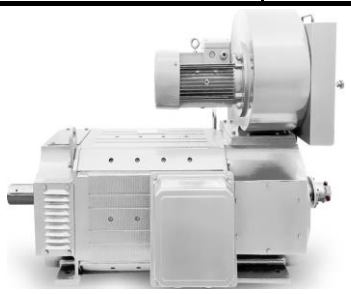
# VYBO Electric a.s.

| Data Sheet | No. |
|---|---|
| Direct Current Electric Motor | Drawing No. |

| | |
|---|---|
| Customer | |
| Client reference | |
| Type | 2GDC-200L-4 42kW-219,3kW |
| Brand | VYBO Electric |

## Identification

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Type: | | 2GDC-200L-4 | | Frame: | 200 | | | | mm |
| Power: | | 42-219,3 | kW | Poles: | 4 | | | | P |
| Speed range (base speed) at armature voltage | 400V | 385-2300 | rpm | Rated Voltage: | 400 | - | 500 | | V |
| | 500 V | 505-2110 | | Connection: | | | | | |
| Arm. current: | | 133-577 | A | Insulation Class: | H | | | | |
| Torque: | | 848-1033 | Nm | Duty: | S1 | | | | |
| Resistance: | | 0,01-0,63 | Ω | Ambient Temperature: | -20~40°C | | | | |
| Inductance: | | 0,5-14,5 | mH | Altitude: | 1000 m | | | | |
| Efficiency: | | 76,9-93,2 | % | Protection Degree: | IP23 | | | | |
| Weight: | | 660 | kg | Cooling: | IC06 | | | | |
| Moment of inertia: | | 0,31 | kg/m2 | Mounting: | IM B (On request) | | | | |
| Field loss: | | 2180-2830 | W | Vibration: | 2,8 mm/s | | | | |
| | | | | Direction of Rotation: | Both | | | | |
| | | | | Coupling: | Flexible | | | | |
| | | | | Terminal Box: | | | | | |



### Bearing Information

| | DE | Commutator End |
|---|---|---|
| Bearing: | 6216-C3 | 6214-C3 |

### Blower motor data

| Electric supply | F.L.C. (A) | Output (kW) |
|---|---|---|
| 3x380-420 V 50 Hz | 3,08 | 1,54 |

### Notes / Accessories

### Deviation Sheet

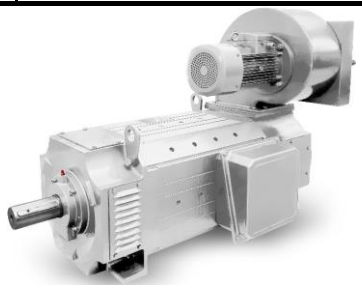
| VYBO Electric | Customer |
|---|---|

### 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 | | Field loss |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 400 | 440 | 460 | 500 | | | | Inductance | Resistance | |
| (kW) | (min-1) | | | | | (A) | (Nm) | (%) | (mH) | (Ohm) | (W) |
| 42,0 | 1340 | 385 | | | | 133 | 1022 | 76,9 | 14,5 | 0,631 | 2370 |
| 47,4 | 1370 | | 430 | | | 134 | 1033 | 78,7 | 14,5 | 0,634 | 2370 |
| 50,1 | 1370 | | | 455 | | 134 | 1031 | 79,6 | 14,5 | 0,634 | 2370 |
| 55,3 | 1370 | | | | 505 | 133 | 1025 | 81,1 | 14,5 | 0,634 | 2370 |
| 54,5 | 1680 | 505 | | | | 164 | 1010 | 81,0 | 9,7 | 0,411 | 2210 |
| 61,0 | 1650 | | 570 | | | 164 | 1002 | 82,5 | 9,7 | 0,411 | 2210 |
| 64,3 | 1620 | | | 600 | | 164 | 1003 | 83,1 | 9,7 | 0,012 | 2210 |
| 70,7 | 1570 | | | | 660 | 164 | 1003 | 84,3 | 9,7 | 0,412 | 2210 |
| 61,6 | 1640 | 570 | | | | 183 | 1012 | 82,5 | 8,1 | 0,335 | 2240 |
| 68,9 | 1580 | | 635 | | | 182 | 1015 | 83,9 | 8,1 | 0,336 | 2240 |
| 72,5 | 1550 | | | 670 | | 183 | 1013 | 84,5 | 8,1 | 0,336 | 2240 |
| 79,8 | 1480 | | | | 740 | 183 | 1009 | 85,5 | 8,1 | 0,337 | 2240 |
| 78,6 | 1370 | 735 | | | | 225 | 1002 | 85,4 | 5,2 | 0,219 | 2270 |
| 87,6 | 1370 | | 820 | | | 225 | 1000 | 86,4 | 5,2 | 0,220 | 2270 |
| 92,0 | 1350 | | | 865 | | 225 | 996 | 86,9 | 5,2 | 0,220 | 2270 |
| 101,0 | 1260 | | | | 950 | 225 | 995 | 87,7 | 5,2 | 0,221 | 2270 |
| 94,7 | 2080 | 900 | | | | 266 | 985 | 86,9 | 3,6 | 0,161 | 2180 |
| 105,1 | 2080 | | 1000 | | | 266 | 984 | 87,8 | 3,6 | 0,161 | 2180 |
| 110,2 | 2080 | | | 1050 | | 265 | 982 | 88,3 | 3,6 | 0,161 | 2180 |
| 120,4 | 2080 | | | | 1150 | 265 | 980 | 89,0 | 3,6 | 0,161 | 2180 |
| 108,1 | 3710 | 1060 | | | | 296 | 955 | 89,4 | 2,4 | 0,107 | 2510 |
| 120,4 | 3930 | | 1170 | | | 297 | 963 | 90,0 | 2,4 | 0,108 | 2510 |
| 125,5 | 3880 | | | 1230 | | 295 | 955 | 90,4 | 2,4 | 0,107 | 2510 |
| 137,7 | 3720 | | | | 1340 | 297 | 962 | 90,8 | 2,4 | 0,108 | 2510 |
| 132,6 | 3420 | 1270 | | | | 362 | 978 | 89,7 | 2,0 | 0,085 | 2240 |
| 146,9 | 3400 | | 1400 | | | 362 | 982 | 90,3 | 2,0 | 0,086 | 2240 |
| 154,0 | 3330 | | | 1470 | | 361 | 981 | 90,6 | 2,0 | 0,086 | 2240 |
| 168,3 | 3150 | | | | 1610 | 362 | 979 | 91,1 | 2,0 | 0,086 | 2240 |
| 151,0 | 3060 | 1490 | | | | 404 | 949 | 91,3 | 1,3 | 0,057 | 2540 |
| 167,3 | 3060 | | 1650 | | | 405 | 949 | 91,7 | 1,3 | 0,058 | 2540 |
| 175,4 | 3060 | | | 1730 | | 406 | 949 | 91,9 | 1,3 | 0,058 | 2540 |
| 190,7 | 2850 | | | | 1890 | 404 | 945 | 92,3 | 1,3 | 0,059 | 2540 |
| 161,2 | 4000 | 1670 | | | | 429 | 904 | 91,9 | 0,94 | 0,045 | 2760 |
| 177,5 | 4000 | | 1850 | | | 428 | 898 | 92,3 | 0,94 | 0,046 | 2760 |
| 185,6 | 4000 | | | 1930 | | 427 | 901 | 92,4 | 0,94 | 0,046 | 2760 |
| 202,0 | 4000 | | | | 2110 | 426 | 896 | 92,7 | 0,94 | 0,047 | 2760 |
| 203,0 | 4000 | 2090 | | | | 536 | 909 | 92,7 | 0,63 | 0,030 | 2800 |
| 218,3 | 4000 | | 2310 | | | 522 | 885 | 93,0 | 0,63 | 0,030 | 2800 |
| 218,3 | 4000 | | | 2410 | | 498 | 848 | 93,2 | 0,63 | 0,029 | 2800 |
| 219,3 | 4000 | 2300 | | | | 577 | 893 | 92,9 | 0,53 | 0,025 | 2830 |