


| VYBO Electric a.s. | | | | | | | | | |  | |
|-------------------------------|--|--------------|-------------------------|----|---------------------|-------------------|------------------------|-----|-------------------|---|---|
| Data Sheet | | | | | No. | | | | | | |
| Direct Current Electric Motor | | | | | Drawing No. | | | | | | |
| Customer | | | | | | | | | | | |
| Client reference | | | | | | | | | | | |
| Type | | | 1GDC-250-41 67KW-220 KW | | | | | | | | |
| Brand | | | VYBO Electric | | | | | | | | |
| Identification | | | | | | | | | | | |
| Type: | | 1GDC-250-41 | | | Frame: | | 250 | | | mm | |
| Power: | | 67-220 | | kW | Poles: | | | | | P | |
| Rated speed: | | 400V | 450-1360 | | rpm | Rated Voltage: | | 400 | - | 440 | V |
| | | / | / | | | Connection: | | | | | |
| | | 440V | 500-1500 | | | Insulation Class: | | H | | | |
| Speed with field weakened: | | 1600-2400 | | | rpm | | Duty: | | S1 | | |
| Arm. current: | | 201-539 | | | A | | Ambient Temperature: | | -20~40°C | | |
| Field power: | | 3000 | | | W | | Altitude: | | 1000 m | | |
| Resistance: | | 0,0102-0,195 | | | Ω | | Protection Degree: | | IP23 | | |
| Resistance: | | 0,93-5,1 | | | mH | | Cooling: | | IC06 | | |
| Inductance: | | 4,63-6,36 | | | mH | | Mounting: | | IM B (On request) | | |
| Efficiency: | | 80-91,7 | | | % | | Vibration: | | 2,8 mm/s | | |
| Weight: | | 1180 | | | kg | | Direction of Rotation: | | Both | | |
| Moment of inertia: | | 12,8 | | | kg/m ² | | Coupling: | | Flexible | | |
| | | | | | | | Terminal Box: | | VYBO-CB6 | | |
| Standards | | | | | Bearing Information | | | | | | |
| Specification: | | IEC60034-1 | | | | | Drive End | | Commutator End | | |
| Test: | | IEC60034-2 | | | Bearing: | | 6318/C3 | | 6216/C3 | | |
| Noise: | | IEC60034-9 | | | Blower motor data | | | | | | |
| Vibration: | | IEC60034-14 | | | | | | | | | |
| Notes / Accessories | | | | | Air volume: | | 3000 | | m ³ /h | | |
| | | | | | Static pressure: | | 1400 | | Pa | | |
| | | | | | Motor output: | | 3,0 | | kW | | |

Technical data for 1GDC

| Frame reference and size | Rated Power | Full load speed in revolutions per minute | | Speed with field weakened | Arm. current | Field power | Arm. circuit resistance | Arm. circuit resistance | Field inductance | Efficiency | Moment of Inertia | Weight | | | |
|--------------------------|-------------|---|------|---------------------------|--------------|-------------|-------------------------|-------------------------|------------------|------------|-------------------|--------|-----|------|-------|
| | | 400V | 440V | | | | | | | | | | NF | LN | PF |
| Type | KW | r/min | | r/min | A | W | (Ω (20°C)) | mH | H | % | kg.m ² | Kg | | | |
| 1GDC-250 | 41 | 198 | 1360 | 2400 | 539 | 3000 | 0,0237 | 0,93 | 6,19 | 91 | 12,8 | 1180 | | | |
| | | 220 | 1500 | | | | | | | 91,7 | | | | | |
| | 42 | 144 | 900 | 2000 | 401 | | | | | 0,0485 | | | 1,9 | 4,63 | 88,11 |
| | | 160 | 1000 | | | | | | | | | | | | 89,2 |
| | 41 | 99 | 680 | 1900 | 283 | | | | | 0,0102 | | | 2,6 | 5,3 | 85,8 |
| | | 110 | 750 | | | | | | | | | | | | 87,4 |
| | 41 | 81 | 540 | 1600 | 236 | | | | | 0,141 | | | 4,7 | 6,36 | 83,4 |
| | | 90 | 600 | | | | | | | | | | | | 85 |
| | 41 | 67 | 450 | 1800 | 201 | | | | | 0,195 | | | 5,1 | 4,97 | 80 |
| | | 75 | 500 | | | | | | | | | | | | 83,4 |