


| VYBO Electric a.s. | | | | | | | | | |  | |
|-----------------------------|--|----------------|--------------------------|----|---------------------|-------------------|------------------------|-----|-------------------|---|---|
| Data Sheet | | | | | No. | | | | | | |
| Three Phase Induction Motor | | | | | Drawing No. | | | | | | |
| Customer | | | | | | | | | | | |
| Client reference | | | | | | | | | | | |
| Type | | | 1GDC-315-32 118KW-355 KW | | | | | | | | |
| Brand | | | VYBO Electric | | | | | | | | |
| Identification | | | | | | | | | | | |
| Type: | | 1GDC-315-32 | | | Frame: | | 315 | | | mm | |
| Power: | | 118-355 | | kW | Poles: | | | | | P | |
| Rated speed: | | 400V | 360-900 | | rpm | Rated Voltage: | | 400 | - | 440 | V |
| | | / | / | | | Connection: | | | | | |
| | | 440V | 400-1000 | | | Insulation Class: | | H | | | |
| Speed with field weakened: | | 1200-1600 | | | rpm | | Duty: | | S1 | | |
| Arm. current: | | 344-867 | | | A | | Ambient Temperature: | | -20~40°C | | |
| Field power: | | 4650 | | | W | | Altitude: | | 1000 m | | |
| Resistance: | | 0,01658-0,1002 | | | Ω | | Protection Degree: | | IP23 | | |
| Resistance: | | 0,39-2,1 | | | mH | | Cooling: | | IC06 | | |
| Inductance: | | 21,5-31,6 | | | mH | | Mounting: | | IM B (On request) | | |
| Efficiency: | | 83,2-92 | | | % | | Vibration: | | 2,8 mm/s | | |
| Weight: | | 2290 | | | kg | | Direction of Rotation: | | Both | | |
| Moment of inertia: | | 27,2 | | | kg/m ² | | Coupling: | | Flexible | | |
| | | | | | | | Terminal Box: | | VYBO-CB6 | | |
| Standards | | | | | Bearing Information | | | | | | |
| Specification: | | IEC60034-1 | | | | | Drive End | | Commutator End | | |
| Test: | | IEC60034-2 | | | Bearing: | | 6321/C3 | | 6220/C3 | | |
| Noise: | | IEC60034-9 | | | Blower motor data | | | | | | |
| Vibration: | | IEC60034-14 | | | | | | | | | |
| Notes / Accessories | | | | | Air volume: | | 4680 | | m ³ /h | | |
| | | | | | Static pressure: | | 1600 | | Pa | | |
| | | | | | Motor output: | | 5,5 | | 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 | | | | | | | | | |
| Type | KW | r/min | | r/min | A | W | (Ω (20°C)) | mH | H | % | kg.m ² | Kg |
| 1GDC-315-32 | 320 | 900 | | 1600 | 867 | 4650 | 0,01658 | 0,39 | 23,1 | 91 | 27,2 | 2290 |
| | 355 | | 1000 | | | | | | | 92 | | |
| | 252 | 680 | | 1600 | 697 | | 0,03043 | 0,82 | 21,5 | 89,1 | | |
| | 280 | | 750 | | | | | | | 89,8 | | |
| | 180 | 540 | | 1500 | 501 | | 0,04536 | 0,95 | 31,6 | 88,2 | | |
| | 200 | | 600 | | | | | | | 89,4 | | |
| 1GDC-315-31 | 118 | 360 | | 1200 | 344 | 0,1002 | 2,1 | 23,3 | 83,2 | | | |
| | 132 | | 400 | | | | | | 85,3 | | | |