

### GENERAL INFORMATION

|                    |              |                        |        |
|--------------------|--------------|------------------------|--------|
| Type               | D3EG315M6AB3 | Efficiency Class       | IE3    |
| Pout [kW]          | 110          | Vibration Class        | A      |
| Speed [rpm]        | 992          | Weight [kg]            |        |
| Frame              | 315M         | Degree of Protection   | IP55   |
| Current [A]        | 221          | Cooling Method         | IC 411 |
| cos φ              | 0,76         | Insulation Class       | H      |
| Rotation           | CW-CCW       | Temperature Class      | B      |
| Duty               | S1           | Construction           | IM B3  |
| Ambient Temp. [°C] | -20...+40    | Altitude above sea [m] | 1000   |

|              |         |                |          |
|--------------|---------|----------------|----------|
| TSE          |         | CE             |          |
| 3~MOT        |         | Type DM 315L-6 |          |
| S1           |         | IM B3          | IP 55    |
| I.C.L.H      |         | η% IE3 - 95,1  |          |
| V            | Hz      | A              | kW       |
| Δ 400        | 50      | 221            | 110      |
| Y 690        | 50      | 127,6          | 110      |
| cos φ        | 1 / min | LOAD           | EFF.     |
| 0,76         | 992     | %75            | 95       |
| 0,76         | 992     | %50            | 94,3     |
| BEARING      |         | GREASE         | QUANTITY |
| DE           | 6318    | POLYREX EM     | 30 GR    |
| NDE          | 6318    | POLYREX EM     | 30 GR    |
| CYCLE(HOURS) |         |                | 4000     |
| CYCLE(HOURS) |         |                | 4000     |

### ELECTRICAL DATA ( RAW MEASUREMENT DATA )

| V1  | %Load | T [Nm]  | I [A] | rpm | P2 [W] | cos φ | Efficiency | Hz |
|-----|-------|---------|-------|-----|--------|-------|------------|----|
| 400 | 100   | 1058,97 | 221   | 992 | 110000 | 0,76  | 95,1       | 50 |
| 400 | 75    | 792,63  | 180,7 | 994 | 82500  | 0,69  | 95         | 50 |
| 400 | 50    | 527,36  | 147   | 996 | 55000  | 0,57  | 94,3       | 50 |

  

|                      |         |      |                  |         |       |
|----------------------|---------|------|------------------|---------|-------|
| Locked Rotor Current | Ia [A]  | 1435 | Breakdown Torque | Mk [Nm] | 3112  |
|                      | Ia / In | 6,49 |                  | Mk / Mn | 2,94  |
| Locked Rotor Torque  | Ma [Nm] | 2540 | No Load Current  | [A]     | 109,4 |
|                      | Ma / Mn | 2,40 | No Load Power    | [W]     | 2549  |

### MECHANICAL DATA

|               |                |   |           |
|---------------|----------------|---|-----------|
| DE Bearing    | 6318-ZZ        | Sound Pressure - 50 Hz - dB[B]                      | 100       |
| NDE Bearing   | 6318-ZZ        | Sound Pressure - 60 Hz - dB[B]                      | 104       |
| Fixed Bearing | YES            | Housing Material                                    | Cast Iron |
| Lubrication   | YES            | DE Shield Material                                  | Cast Iron |
| Grease Amount | 30 gr          | Terminal Box Material                               | Aluminium |
| Grease Type   | POLYREX EM     | Cable Entry   | M63       |
| Feather Key   | 22*14*140      | Cable Gland Position                                | 4         |
| Balance       | G 2,5 Half Key | *Shaft-end diameter (D) is 80 mm for Export Motors. |           |

### MECHANICAL DIMENSIONS

|     |     |     |     |       |     |     |      |     |     |    |     |     |     |    |    |
|-----|-----|-----|-----|-------|-----|-----|------|-----|-----|----|-----|-----|-----|----|----|
| A   | AA  | AB  | AC  | AD    | B   | B'  | BA   | BB  | C   | D  | d   | E   | EB  | F  | GA |
| 508 | 125 | 115 | 615 | -     | 457 | 406 | 115  | 550 | 216 | 80 | M20 | 170 | 140 | 22 | 85 |
| GD  | H   | HA  | HC  | HD    | K   | K1  | L    | LA  | LB  | M  | N   | P   | S   | S1 | T  |
| 14  | 315 | 50  | 613 | 817,1 | 28  | 28  | 1156 | -   | -   | -  | -   | -   | -   | -  | -  |

