



**GENERAL INFORMATION**

|                    |                |                        |        |
|--------------------|----------------|------------------------|--------|
| Type               | D3EA80M2AB34YY | Efficiency Class       | IE3    |
| Pout [kW]          | 0,75           | Vibration Class        | A      |
| Speed [rpm]        | 2870           | Weight [kg]            |        |
| Frame              | 80M            | Degree of Protection   | IP55   |
| Current [A]        | 2,6            | Cooling Method         | IC 411 |
| cos φ              | 0,84           | Insulation Class       | F      |
| Rotation           | CW-CCW         | Temperature Class      | B      |
| Duty               | S1             | Construction           | IM B34 |
| Ambient Temp. [°C] | -20...+40      | Altitude above sea [m] | 1000   |

|   |    |       |        |         |          |      |            |  |
|---|----|-------|--------|---------|----------|------|------------|--|
|   |    | 3~MOT | Type   | DM 80-2 |          |      | η%         |  |
|   |    | S1    | IM B34 | IP 55   | I.C.L.F. |      | IE3 - 85,5 |  |
| V   | Hz | A     | kW     | cos φ   | 1 / min  | LOAD | EFF.       |  |
| Δ 230   | 50 | 2,6   | 0,75   | 0,85    | 2860     | %75  | 86         |  |
| Y 400   | 50 | 1,5   | 0,75   | 0,85    | 2860     |      |            |  |
| Y 460   | 60 | 1,3   | 0,75   | 0,85    | 3437     | %50  | 85,2       |  |
| Y 480   | 60 | 1,5   | 0,9    | 0,85    | 3435     |      |            |  |

**ELECTRICAL DATA ( RAW MEASUREMENT DATA )**

| V1  | %Load | T [Nm] | I [A] | rpm  | P2 [W] | cos φ | Efficiency | Hz |
|-----|-------|--------|-------|------|--------|-------|------------|----|
| 400 | 100   | 2,52   | 1,6   | 2840 | 750    | 0,84  | 80,7       | 50 |
| 400 | 75    | 1,85   | 1,3   | 2885 | 560    | 0,77  | 81         | 50 |
| 400 | 50    | 1,22   | 1,1   | 2925 | 375    | 0,61  | 80,3       | 50 |

|                      |         |      |                  |         |      |
|----------------------|---------|------|------------------|---------|------|
| Locked Rotor Current | Ia [A]  | 9,5  | Breakdown Torque | Mk [Nm] | 7,8  |
|                      | Ia / In | 3,65 |                  | Mk / Mn | 3,09 |
| Locked Rotor Torque  | Ma [Nm] | 7    | No Load Current  | [A]     | 0,9  |
|                      | Ma / Mn | 2,78 | No Load Power    | [W]     | 86   |

**MECHANICAL DATA**

|               |                |                                |           |
|---------------|----------------|--------------------------------|-----------|
| DE Bearing    | 6204-ZZ        | Sound Pressure - 50 Hz - dB[B] | 80        |
| NDE Bearing   | 6204-ZZ        | Sound Pressure - 60 Hz - dB[B] | 87        |
| Fixed Bearing | YES            | Housing Material               | Aluminium |
| Lubrication   | -              | DE Shield Material             | Aluminium |
| Grease Amount | -              | Terminal Box Material          | Polyamide |
| Grease Type   | -              | Cable Entry                    | PG 11     |
| Feather Key   | 6*6*32         | Cable Gland Position           | 4         |
| Balance       | G 1,6 Half Key |                                |           |

**MECHANICAL DIMENSIONS**

|     |       |       |       |       |     |    |       |        |     |    |    |    |    |    |      |
|-----|-------|-------|-------|-------|-----|----|-------|--------|-----|----|----|----|----|----|------|
| A   | AA    | AB    | AC    | AD    | B   | B' | BA    | BB     | C   | D  | d  | E  | EB | F  | GA   |
| 125 | 35,07 | 32,03 | 158,2 | -     | 100 | -  | 32,03 | 125,07 | 50  | 19 | M6 | 40 | 32 | 6  | 21,5 |
| GD  | H     | HA    | HC    | HD    | K   | K1 | L     | LA     | LB  | M  | N  | P  | S  | S1 | T    |
| 6   | 80    | 14    | 159,5 | 207,5 | 15  | 10 | 264   | 24     | 240 | -  | -  | -  | -  | -  | -    |

