

Technical drawing of a 6RD80MA2E3 IM3001 motor, showing front, side, and section A-A views.

**Front View Dimensions:**

- Overall width: 320
- Terminal box width: 139
- Terminal box height: 136
- Mounting foot diameter:  $\phi 12$
- Mounting foot spacing: 69,5
- Mounting foot angle:  $4 \times 90^\circ$

**Side View Dimensions:**

- Overall length: 181
- Terminal box height: 136
- Terminal box width: 115
- Terminal box mounting hole:  $\phi 130 j6$
- Terminal box mounting hole offset: 40
- Terminal box mounting hole offset: 8
- Terminal box mounting hole offset: 3,5

**Section A-A Dimensions:**

- Section A-A: SCALE 1:1
- Section A-A:  $\phi 19 j6$
- Section A-A: 6 h9
- Section A-A: 21,5

**Terminal Box Details:**

- 1x M25x1,5 WITH PTC-TRIP: + 1x M20x1,5
- Earthing terminal

**Table of Dimensions and Tolerances:**

| GEN TOLERANCE OF FORM AND POSITION ON MACHINED PARTS: | 0,5 - 3    | $\pm 0,1$ | > 120 - 400   | $\pm 0,5$ | ALL DIMENSIONS IN mm ACC. IEC/EN 60072-1 | THIRD ANGLE PROJECTION | MOTOR TYPE     | COOLING             | PAPER SIZE   |
|-------------------------------------------------------|------------|-----------|---------------|-----------|------------------------------------------|------------------------|----------------|---------------------|--------------|
| LINEAR DIM. ACC. DIN ISO 2768-1 m                     | > 3 - 6    | $\pm 0,1$ | > 400 - 1000  | $\pm 0,8$ |                                          |                        | 6RD80MA2E3     | IC411               | A3           |
|                                                       | > 6 - 30   | $\pm 0,2$ | > 1000 - 2000 | $\pm 1,2$ |                                          |                        | IM3001 / FF165 | PROTECTION Ex db/eb | SCALE: 1:2   |
| CLASS H - DIN ISO 2768-2                              | > 30 - 120 | $\pm 0,3$ | > 2000 - 4000 | $\pm 2$   |                                          |                        |                |                     | SHEET 1 OF 1 |

**Additional Information:**

- DRAWN: BW
- DATE: 22-07-2021
- CHK'D: Mors 1-5
- DATE: 7151 MX Eibergen NL
- GENERAL TOLERANCE ON MACHINED PARTS: LINEAR DIM. ACC. DIN ISO 2768-1 m

**rotor RegalRexnord**

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DRAWING NUMBER: 6RD80MA2E3 IM3001

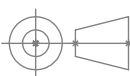
REVISION:

DESCRIPTION: Outline drawing

OPTIONS:

DO NOT SCALE DRAWING

|                                             |                               |                            |
|---------------------------------------------|-------------------------------|----------------------------|
| DRAWING NUMBER:<br><b>6RD80MA2E3 IM3001</b> |                               | REVISION                   |
| DESCRIPTION:<br><b>Outline drawing</b>      |                               |                            |
| OPTIONS:                                    |                               |                            |
|                                             |                               | DO NOT SCALE<br>DRAWING    |
| MOTOR TYPE<br><b>6RD80MA2E3</b>             | COOLING<br><b>IC411</b>       | PAPER SIZE<br><b>A3</b>    |
| MOUNTING<br><b>IM3001 / FF165</b>           | PROTECTION<br><b>Ex db/eb</b> | SCALE: 1:2<br>SHEET 1 OF 1 |

|                                                                |                                                                                                                                                                                |                                                                                     |                                                                                                                    |
|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| DRAWN<br><b>BW</b>                                             | <br> |                                                                                     |                                                                                                                    |
| DATE<br><b>22-07-2021</b>                                      | ROTOR BV      Tel: +31 (0)545-464640<br>Mors 1-5      E-mail:<br>7151 MX Eibergen NL      sales.nl@regalrexnord.com                                                            |                                                                                     |                                                                                                                    |
| CHK'D                                                          |                                                                                                                                                                                |                                                                                     |                                                                                                                    |
| DATE                                                           | GENERAL TOLERANCE<br>ON MACHINED PARTS:<br>LINEAR DIM. ACC. DIN ISO 2768-1 m                                                                                                   |                                                                                     | ALL DIMENSIONS<br>IN mm<br>ACC. IEC/EN 60072-                                                                      |
| GEN TOLERANCE OF<br>FORM AND POSITION<br>ON MACHINED<br>PARTS: | 0.5 - 3    ± 0.1<br>> 3 - 6    ± 0.1<br>> 6 - 30   ± 0.2<br>> 30 - 120 ± 0.3                                                                                                   | > 120 - 400 ± 0.5<br>> 400 - 1000 ± 0.8<br>> 1000 - 2000 ± 1.2<br>> 2000 - 4000 ± 2 | THIRD ANGLE<br>PROJECTION<br> |
| CLASS H - DIN ISO 2768-2                                       |                                                                                                                                                                                |                                                                                     |                                                                                                                    |