

## **MOTOR DATA SHEET**

Motor type: **ExSh80-2AT4** 

Series: Increased safety



01-11-2025

| ELECTRICAL PARAMETERS |       |    |      |      |      |     |      |      |      |      |      |        |             |       |       |               |         |
|-----------------------|-------|----|------|------|------|-----|------|------|------|------|------|--------|-------------|-------|-------|---------------|---------|
| U                     | CONN. | f  | F    | D    | Duty | 1   | n    | Т    | TL/T | TB/T | IL/I | Effici | ency at loa | d [%] | Power | r factor at l | oad [-] |
| V                     | -     | Hz | kW   | HP   | -    | Α   | rpm  | Nm   | -    | -    | -    | 2/4    | 3/4         | 4/4   | 2/4   | 3/4           | 4/4     |
| 400                   | Y     | 50 | 0.55 | 0.75 | S1   | 1.4 | 2830 | 1.86 | 2.8  | 2.9  | 6.2  | -      | -           | 72.0  | -     | -             | 0.79    |

| GENERAL DATA               |                 |                                      |           |  |  |  |  |
|----------------------------|-----------------|--------------------------------------|-----------|--|--|--|--|
| Efficiency class           | -               | Frame size                           | 80        |  |  |  |  |
| Number of poles            | 2               | Terminal box position                | top       |  |  |  |  |
| Starting method            | DOL             | Possibility of terminal box rotation | yes       |  |  |  |  |
| Insulation class           | F               | Bearing on D-side                    | 62042Z    |  |  |  |  |
| Frequency converter supply | no              | Bearing on ND-side                   | 62042Z    |  |  |  |  |
| Mounting arrangement       | IMB3/B5/B35/B14 | Bearings regreasing                  | no        |  |  |  |  |
| Cooling method             | IC411           | Housing - material                   | aluminium |  |  |  |  |
| Weight (IMB3) [kg]         | 7.8             | Feet - material                      | aluminium |  |  |  |  |
| Bearing shields - material | aluminium       | Painting                             | RAL5010   |  |  |  |  |
| Degree of protection       | IP66            | Climatic execution                   | N         |  |  |  |  |

| ENVIRONMENTAL CONDITIONS |                    |                              |            |  |  |  |  |
|--------------------------|--------------------|------------------------------|------------|--|--|--|--|
| Ambient temperature [°C] | from -20 up to +40 | Altitude above sea level [m] | up to 1000 |  |  |  |  |
| Relative humidity [%]    | up to 95           |                              |            |  |  |  |  |

| ACCESSORY                      |           |                                 |           |  |  |  |  |
|--------------------------------|-----------|---------------------------------|-----------|--|--|--|--|
| Number of terminals or cables  | 6         | Temperature sensors in bearings | on demand |  |  |  |  |
| Cable glands/inlets            | 2         | Winding heaters                 | no        |  |  |  |  |
| Temperature sensors in winding | on demand | Optional accessories            | on demand |  |  |  |  |

| STA            | NDARDS               |
|----------------|----------------------|
| EN 60079-0, EN | 60079-31, EN 60079-7 |

| CERTIFICATES |  |
|--------------|--|
| ATEX         |  |

| ADDITIONAL INFO                          |    |            |  |  |  |  |  |
|--|----|------------|--|--|--|--|--|
| tE heating time up to T4 temperature [s] | 10 | Ex marking | II 2G Ex eb T4 / II 2D Ex<br>tb T125st.C |  |  |  |  |

