



MOTOR DATA SHEET

Motor type: **Ex3SIE_80-4B**

Series: **INCREASED SAFETY IE3**

04-12-2025

ELECTRICAL PARAMETERS

| U | CONN. | f | P | | Duty | I | n | T | TL/T | TB/T | IL/I | Efficiency at load [%] | | | Power factor at load [-] | | |
|-----|-------|----|------|----|------|-----|------|------|------|------|------|------------------------|-----|------|--------------------------|-----|------|
| V | - | Hz | kW | HP | - | A | rpm | Nm | - | - | - | 2/4 | 3/4 | 4/4 | 2/4 | 3/4 | 4/4 |
| 400 | Y | 50 | 0.75 | 1 | S1 | 2.1 | 1430 | 5.01 | 3.8 | 3.7 | 5.7 | - | - | 82.5 | - | - | 0.63 |

GENERAL DATA

| | | | |
|---------------------------------------|-----------------|--------------------------------------|-----------|
| Efficiency class | IE3 | Sound pressure level [dB] | - |
| Frame size | 80 | Sound power level [dB] | - |
| Number of poles | 4 | Terminal box position | top |
| Starting method | DOL | Possibility of terminal box rotation | no |
| Insulation class | F | Bearing on D-side | 6204 2Z |
| Frequency converter supply | no | Bearing on ND-side | 6204 2Z |
| Mounting arrangement | IMB3/B5/B35/B14 | Bearings regreasing | no |
| Cooling method | IC411 | Housing - material | aluminium |
| Weight (IMB3) [kg] | 11.8 | Feet - material | aluminium |
| Moment of inertia [kgm ²] | - | Bearing shields - material | aluminium |
| Direction of rotation | CW/CCW | Painting | RAL5010 |
| Degree of protection | IP66 | Climatic execution | NU/2 |

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 | no |
| Cable glands/inlets | 2 | Winding heaters | no |
| Temperature sensors in winding | on demand | Optional accessories | no |

STANDARDS

PN-EN 60079-7:2016

CERTIFICATES

ATEX

ADDITIONAL INFO

| | | | |
|--|---------------------------|--|---|
| tE heating time up to T3 temperature [s] | 21 | tE heating time up to T4 temperature [s] | 7 |
| Ex marking | Ex II 2 G Ex eb IIC Tx Gb | | |