

MOTOR DATA SHEET

Motor type: **Ex3SIE90S4-2GT3**

Series: INCREASED SAFETY IE3



21-11-2025

| ELECTRICAL PARAME | | | | | | | | METER | S | | | | | | | | |
|-------------------|-------|----|-----|-----|------|-----|------|-------|------|------|------|--------|-------------|-------|-------|---------------|---------|
| U | CONN. | f | F | Þ | 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 | 1.1 | 1.5 | S1 | 2.5 | 1450 | 7.2 | 2.3 | 3.5 | 6.9 | 81.8 | 84.0 | 84.1 | | | 0.77 |

| GENERAL DATA | | | | | | |
|----------------------------|-----------------|--------------------------------------|-----------|--|--|--|
| Efficiency class | IE3 | Sound pressure level [dB] | 54 | | | |
| Frame size | 90 | Sound power level [dB] | 66 | | | |
| Number of poles | 4 | Terminal box position | top | | | |
| Starting method | DOL | Possibility of terminal box rotation | no | | | |
| Insulation class | F | Bearing on D-side | 62052Z | | | |
| Frequency converter supply | yes | Bearing on ND-side | 62052Z | | | |
| Mounting arrangement | IMB3/B5/B35/B14 | Bearings regreasing | no | | | |
| Cooling method | IC411 | Housing - material | aluminium | | | |
| Weight (IMB3) [kg] | 18 | Feet - material | aluminium | | | |
| Moment of inertia [kgm2] | 0.0036 | Bearing shields - material | aluminium | | | |
| Direction of rotation | CW/CCW | Painting | RAL5010 | | | |
| Degree of protection | IP55 | 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 | | | |

| STANDARDS |
|--|
| EN 60034-1, EN-IEC 60079-0, EN 60079-7 |

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

| | ADDITIO | NAL INFO | | | |
|--|---------|------------|--------------------|--|--|
| tE heating time up to T3 temperature [s] | 18 | Ex marking | II 2G Ex eb IIC T3 | | |

