



MOTOR DATA SHEET

Motor type: **ExSh90S-6-2GT4_2D**

Series: **GAS AND DUST - CATEGORY 2D, 3D, 3G**

22-12-2024

| 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 | 0.65 | 0.88 | S1 | 2 | 935 | 6.6 | 2.3 | 2.6 | 6.2 | 65.1 | 69.9 | 71.1 | 0.45 | 0.57 | 0.68 |

| GENERAL DATA | | | |
|---------------------------------------|-----------------|--------------------------------------|-----------|
| Efficiency class | - | Sound pressure level [dB] | 53 |
| Frame size | 90 | Sound power level [dB] | 63 |
| Number of poles | 6 | Terminal box position | top |
| Starting method | DOL | Possibility of terminal box rotation | yes |
| Insulation class | F | Bearing on D-side | 62052Z |
| Frequency converter supply | no | Bearing on ND-side | 62052Z |
| Mounting arrangement | IMB3/B5/B35/B14 | Bearings regreasing | no |
| Cooling method | IC411 | Housing - material | aluminium |
| Weight (IMB3) [kg] | 12.4 | Feet - material | aluminium |
| Moment of inertia [kgm ²] | 0.002 | Bearing shields - material | aluminium |
| Direction of rotation | CW/CCW | 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 | on demand |
| Temperature sensors in winding | 3 x PTC | Optional accessories | on demand |

| STANDARDS | |
|--|--|
| EN 60034-1, EN 60079-0, EN 60079-7, EN 60079-15, EN 60079-31 | |

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

| ADDITIONAL INFO | | |
|-----------------|---|--|
| Ex marking | II 2G Ex eb IIC T4 Gb / II 2D Ex tb IIIC T125°C Db | |