



MOTOR DATA SHEET

Motor type: **3Sg160M8B-(2D,3D)**

Series: **Gas and Dust - category 2D, 3D, 3G**

16-06-2025

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 | Δ | 50 | 5.5 | 7.5 | S1 | 12.8 | 705 | 74 | 2.5 | 3.1 | 5.5 | 81.7 | 83.1 | 82.5 | 0.55 | 0.68 | 0.75 |

GENERAL DATA

| | | | |
|---------------------------------------|-----------------------|--------------------------------------|-----------|
| Efficiency class | - | Sound pressure level [dB] | 52 |
| Frame size | 160 | Sound power level [dB] | 62 |
| Number of poles | 8 | Terminal box position | top |
| Starting method | DOL or Y/Δ | Possibility of terminal box rotation | yes |
| Insulation class | F | Bearing on D-side | 63092Z |
| Frequency converter supply | on demand | Bearing on ND-side | 63092Z |
| Mounting arrangement | IMB3/B5/B35 | Bearings regreasing | no |
| Cooling method | IC411 | Housing - material | cast iron |
| Weight (IMB3) [kg] | 142 | Feet - material | cast iron |
| Moment of inertia [kgm ²] | 0.08 | Bearing shields - material | cast iron |
| Direction of rotation | CW/CCW | Painting | RAL5010 |
| Degree of protection | IP66 (2D) / IP56 (3D) | 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 | 1 x PTC (D-side) |
| Cable glands/inlets | 2 + 1 | Winding heaters | on demand |
| Temperature sensors in winding | 3 x PTC | Optional accessories | on demand |

STANDARDS

EN 60034-1, EN 60079-0, EN 60079-15, EN 60079-31

CERTIFICATES

ATEX

ADDITIONAL INFO

| | | | |
|------------|---|--|--|
| Ex marking | II 2D,3D Ex t IIIC, IIB T100°C Db / II 3G ExnA II T5 Gc | | |
|------------|---|--|--|