



MOTOR DATA SHEET

Motor type: **Sg160L-4**

Series: **IE1**

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 [-] | | |
|-----|-------|----|----|----|------|------|------|-------|------|------|------|------------------------|------|------|--------------------------|------|------|
| | | | kW | HP | | | | | | | | - | - | - | 2/4 | 3/4 | 4/4 |
| 400 | Δ | 50 | 15 | 20 | S1 | 27.8 | 1460 | 98.12 | 2.4 | 3.2 | 7.3 | 89.1 | 89.9 | 89.5 | 0.73 | 0.82 | 0.87 |
| 690 | Y | 50 | 15 | 20 | S1 | 16.1 | 1460 | 98.12 | 2.4 | 3.2 | 7.3 | 89.1 | 89.9 | 89.5 | 0.73 | 0.82 | 0.87 |

GENERAL DATA

| | | | |
|---------------------------------------|-----------------|--------------------------------------|-----------|
| Efficiency class | - | Sound pressure level [dB] | 66 |
| Frame size | 160 | Sound power level [dB] | 77 |
| Number of poles | 4 | 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 | yes | Bearing on ND-side | 63092Z |
| Mounting arrangement | IMB3/B5/B35/B14 | Bearings regreasing | on demand |
| Cooling method | IC411 | Housing - material | cast iron |
| Weight (IMB3) [kg] | 125 | Feet - material | cast iron |
| Moment of inertia [kgm ²] | 0.075 | Bearing shields - material | cast iron |
| Direction of rotation | CW/CCW | Painting | RAL5010 |
| Degree of protection | IP55 | Climatic execution | N |

ENVIRONMENTAL CONDITIONS

| | | | |
|--------------------------|-----------|------------------------------|------------|
| Ambient temperature [°C] | 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 | 1 | Winding heaters | on demand |
| Temperature sensors in winding | on demand | Optional accessories | on demand |

STANDARDS

IEC 60034-1

CERTIFICATES

on demand