



MOTOR DATA SHEET

Motor type: **Sh90S-2**

Series: **IE1**

08-06-2025

ELECTRICAL PARAMETERS

| U | CONN. | f | P | | Duty | I | n | T | TL/T | TB/T | IL/I | Efficiency at load [%] | | | Power factor at load [-] | | |
|-----|-------|----|-----|-----|------|-----|------|------|------|------|------|------------------------|------|------|--------------------------|------|------|
| | | | kW | HP | | | | | | | | - | - | - | 2/4 | 3/4 | 4/4 |
| 230 | Δ | 50 | 1.5 | 2.0 | S1 | 5.6 | 2835 | 5.05 | 3.0 | 3.1 | 6.15 | 80.7 | 82.1 | 81.1 | 0.65 | 0.77 | 0.83 |
| 400 | Y | 50 | 1.5 | 2.0 | S1 | 3.2 | 2835 | 5.05 | 3.0 | 3.1 | 6.15 | 80.7 | 82.1 | 81.1 | 0.65 | 0.77 | 0.83 |

GENERAL DATA

| | | | |
|---------------------------------------|-----------------|--------------------------------------|-----------|
| Efficiency class | - | Sound pressure level [dB] | 69 |
| Frame size | 90 | Sound power level [dB] | 79 |
| Number of poles | 2 | Terminal box position | top |
| Starting method | DOL | Possibility of terminal box rotation | yes |
| 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] | 14 | Feet - material | aluminium |
| Moment of inertia [kgm ²] | 0.0013 | Bearing shields - material | aluminium |
| 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