



MOTOR DATA SHEET

Motor type: **Sh90-8_2S**

Series: **MULTI SPEED**

24
68
POLES
MULTI
SPEED

03-02-2026

| ELECTRICAL PARAMETERS | | | | | | | | | | | | | | | | | |
|-----------------------|-------|----------|-----------|-----------|------|----------|------------|-----------|-------------|-------------|-------------|------------------------|-----|------|--------------------------|-----|------|
| <i>U</i> | CONN. | <i>f</i> | <i>P</i> | | Duty | <i>I</i> | <i>n</i> | <i>T</i> | <i>TL/T</i> | <i>TB/T</i> | <i>IL/I</i> | Efficiency at load [%] | | | Power factor at load [-] | | |
| <i>V</i> | - | Hz | <i>kW</i> | <i>HP</i> | - | A | <i>rpm</i> | <i>Nm</i> | - | - | - | 2/4 | 3/4 | 4/4 | 2/4 | 3/4 | 4/4 |
| 400 | Y | 50 | 0.18 | 0.24 | S1 | 0.8 | 690 | 2.5 | 1.5 | 1.9 | 2.5 | - | - | 55.0 | - | - | 0.46 |
| 400 | Y | 50 | 0.75 | 1.0 | S1 | 2.0 | 2750 | 2.61 | 1.5 | 1.6 | 3.0 | - | - | 61.0 | - | - | 0.90 |

GENERAL DATA

| | | | |
|---------------------------------------|-----------------|--------------------------------------|-----------|
| Efficiency class | - | Sound pressure level [dB] | - |
| Frame size | 90 | Sound power level [dB] | - |
| Number of poles | 8 2 | Terminal box position | top |
| Starting method | DOL / DOL | Possibility of terminal box rotation | yes |
| Insulation class | F | Bearing on D-side | 62052Z |
| Frequency converter supply | on demand | Bearing on ND-side | 62052Z |
| Mounting arrangement | IMB3/B5/B35/B14 | Bearings regreasing | no |
| Cooling method | IC411 | Housing - material | aluminium |
| Weight (IMB3) [kg] | 11 | Feet - material | aluminium |
| Moment of inertia [kgm ²] | 0.0024 | Bearing shields - material | aluminium |
| Direction of rotation | CW/CCW | Painting | RAL5010 |
| Degree of protection | IP 54/IP 55 | Climatic execution | U/2 |

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 | |
|-------------------------------|---|--|

STANDARDS

IEC 60034-1

CERTIFICATES

on demand