

MOTOR DATA SHEET

Motor type: **Sh90S-8_4**

Series: MULTI SPEED



22-10-2025

| | ELECTRICAL PARAMETERS | | | | | | | | | | | | | | | | |
|-----|-----------------------|----|------|-----|------|-----|------|------|------|------|------|--------|-------------|-------|-------|-------------|---------|
| U | CONN. | f | ŀ | • | Duty | 1 | n | Т | TL/T | TB/T | IL/I | Effici | ency at loa | d [%] | Power | factor at l | oad [-] |
| V | - | Hz | kW | HP | - | Α | rpm | Nm | - | - | - | 2/4 | 3/4 | 4/4 | 2/4 | 3/4 | 4/4 |
| 400 | Δ | 50 | 0.37 | 0.5 | S1 | 1.7 | 705 | 5.01 | 2.15 | 2.3 | 2.95 | 42.0 | 50.6 | 55.2 | 0.39 | 0.47 | 0.55 |
| 400 | YY | 50 | 0.75 | 1.0 | S1 | 1.7 | 1385 | 5.17 | 1.55 | 1.8 | 4.15 | 74.0 | 75.2 | 72.9 | 0.69 | 0.81 | 0.87 |

| GENERAL DATA | | | | | | |
|----------------------------|-----------------|--------------------------------------|-----------|--|--|--|
| Efficiency class | - | Sound pressure level [dB] | 60 65 | | | |
| Frame size | 90 | Sound power level [dB] | 87 87 | | | |
| Number of poles | 8 4 | 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] | 14.9 | Feet - material | aluminium | | | |
| Moment of inertia [kgm2] | 0.0025 | Bearing shields - material | aluminium | | | |
| Direction of rotation | CW/CCW | Painting | RAL5010 | | | |
| Degree of protection | IP 55 | 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 | |

