

MOTOR DATA SHEET

Motor type: **2Sg280S8**



Series: **IE1**

IE1 STANDARD EFFICIENCY

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 | Δ | 50 | 37 | 50 | S1 | 69 | 737 | 479 | 2.0 | 1.8 | 5.3 | 92.0 | 93.1 | 92.8 | 0.70 | 0.78 | 0.83 |
| 690 | Y | 50 | 37 | 50 | S1 | 40 | 737 | 479 | 2.0 | 1.8 | 5.3 | 92.0 | 93.1 | 92.8 | 0.70 | 0.78 | 0.83 |

GENERAL DATA

| | | | |
|---------------------------------------|-------------|--------------------------------------|---------------|
| Efficiency class | - | Sound pressure level [dB] | 62 |
| Frame size | 280 | Sound power level [dB] | 72 |
| Number of poles | 8 | Terminal box position | on right side |
| Starting method | DOL or Y/Δ | Possibility of terminal box rotation | yes |
| Insulation class | F | Bearing on D-side | 6317C3 |
| Frequency converter supply | yes | Bearing on ND-side | 6317C3 |
| Mounting arrangement | IMB3/B5/B35 | Bearings regreasing | yes |
| Cooling method | IC411 | Housing - material | cast iron |
| Weight (IMB3) [kg] | 535 | Feet - material | cast iron |
| Moment of inertia [kgm ²] | 1.47 | 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 | 2 + 1 | Winding heaters | on demand |
| Temperature sensors in winding | 3 x PTC | Optional accessories | on demand |

STANDARDS

IEC 60034-1

CERTIFICATES

on demand