

MOTOR DATA SHEET

Motor type: 2Sg280S2

Series: **IE1**



30-11-2025

| | ELECTRICAL PARAMETERS | | | | | | | | | | | | | | | | |
|-----|-----------------------|----|----|-----|------|-----|------|-----|------|------|------|------------------------|------|-------|--------------------------|------|------|
| U | CONN. | f | F | Þ | Duty | 1 | n | Т | TL/T | TB/T | IL/I | Efficiency at load [%] | | Power | Power factor at load [-] | | |
| V | - | Hz | kW | HP | - | Α | rpm | Nm | - | - | - | 2/4 | 3/4 | 4/4 | 2/4 | 3/4 | 4/4 |
| 400 | Δ | 50 | 75 | 100 | S1 | 128 | 2977 | 241 | 2.1 | 3.3 | 7.5 | 91.9 | 93.6 | 94.0 | 0.80 | 0.87 | 0.90 |
| 690 | Y | 50 | 75 | 100 | S1 | 74 | 2977 | 241 | 2.1 | 3.3 | 7.5 | 91.9 | 93.6 | 94.0 | 0.80 | 0.87 | 0.90 |

| GENERAL DATA | | | | | | |
|----------------------------|-------------|--------------------------------------|---------------|--|--|--|
| Efficiency class | - | Sound pressure level [dB] | 81 | | | |
| Frame size | 280 | Sound power level [dB] | 91 | | | |
| Number of poles | 2 | 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 | 6315C3 | | | |
| Frequency converter supply | yes | Bearing on ND-side | 6315C3 | | | |
| 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 [kgm2] | 0.76 | 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 | |

