



MOTOR DATA SHEET

Motor type: **Sg180M-4_2**

Series: **MULTI SPEED**

12-11-2024

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 |
| 400 | Δ | 50 | 14.5 | 19.40 | S1 | 30.1 | 1470 | 94.2 | 2.4 | 2.8 | 7.0 | 84.9 | 87.4 | 88.0 | 0.59 | 0.72 | 0.79 |
| 400 | YY | 50 | 19.5 | 26.4 | S1 | 35.8 | 2930 | 63.56 | 1.7 | 2.5 | 6.5 | 81.6 | 84.5 | 85.5 | 0.84 | 0.89 | 0.92 |

GENERAL DATA

| | | | |
|---------------------------------------|-----------------|--------------------------------------|-----------|
| Efficiency class | - | Sound pressure level [dB] | 68 81 |
| Frame size | 180 | Sound power level [dB] | 74 82 |
| Number of poles | 4 2 | Terminal box position | top |
| Starting method | DOL / DOL | Possibility of terminal box rotation | yes |
| Insulation class | F | Bearing on D-side | 63112Z |
| Frequency converter supply | on demand | Bearing on ND-side | 63112Z |
| Mounting arrangement | IMB3/B5/B35/B14 | Bearings regreasing | on demand |
| Cooling method | IC411 | Housing - material | cast iron |
| Weight [kg] | 155 | Feet - material | cast iron |
| Moment of inertia [kgm ²] | 0.133 | Bearing shields - material | cast iron |
| 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