



## MOTOR DATA SHEET

Motor type: **2Sg280M8**

Series: **IE1**

04-12-2025

### ELECTRICAL PARAMETERS

| U   | CONN. | f  | P  |    | Duty | I  | n   | T   | TL/T | TB/T | IL/I | Efficiency at load [%] |      |      | Power factor at load [-] |      |      |
|-----|-------|----|----|----|------|----|-----|-----|------|------|------|------------------------|------|------|--------------------------|------|------|
| V   | -     | Hz | kW | HP | -    | A  | rpm | Nm  | -    | -    | -    | 2/4                    | 3/4  | 4/4  | 2/4                      | 3/4  | 4/4  |
| 400 | Δ     | 50 | 45 | 60 | S1   | 84 | 737 | 583 | 2.1  | 2.0  | 5.4  | 92.0                   | 92.8 | 92.5 | 0.75                     | 0.82 | 0.84 |
| 690 | Y     | 50 | 45 | 60 | S1   | 48 | 737 | 583 | 2.1  | 2.0  | 5.4  | 92.0                   | 92.8 | 92.5 | 0.75                     | 0.82 | 0.84 |

### 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]                    | 590         | Feet - material                      | cast iron     |
| Moment of inertia [kgm <sup>2</sup> ] | 1.8         | 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