



## MOTOR DATA SHEET

Motor type: **2Sg315M4B**

Series: **IE1**

15-01-2025

### 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 | 160 | 220 | S1   | 281 | 1489 | 1026 | 2.7  | 2.4  | 8.5  | 94.5                   | 95.3 | 95.4 | 0.73                     | 0.82 | 0.86 |
| 690 | Y     | 50 | 160 | 220 | S1   | 163 | 1489 | 1026 | 2.7  | 2.4  | 8.5  | 94.5                   | 95.3 | 95.4 | 0.73                     | 0.82 | 0.86 |

### GENERAL DATA

|                                       |             |                                      |               |
|---------------------------------------|-------------|--------------------------------------|---------------|
| Efficiency class                      | -           | Sound pressure level [dB]            | 77            |
| Frame size                            | 315         | Sound power level [dB]               | 87            |
| Number of poles                       | 4           | 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                    | 6318C3        |
| Frequency converter supply            | yes         | Bearing on ND-side                   | 6318C3        |
| Mounting arrangement                  | IMB3/B5/B35 | Bearings regreasing                  | yes           |
| Cooling method                        | IC411       | Housing - material                   | cast iron     |
| Weight (IMB3) [kg]                    | 870         | Feet - material                      | cast iron     |
| Moment of inertia [kgm <sup>2</sup> ] | 2.24        | 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