



## MOTOR DATA SHEET

Motor type: **2Sg315M8B-(2D,3D)**

Series: **GAS AND DUST - CATEGORY 2D, 3D, 3G**

27-09-2024

### 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 | 90 | 125 | S1   | 170 | 737 | 1166 | 2.4  | 1.9  | 6.5  | 92.5                   | 93.5 | 93.2 | 0.68                     | 0.78 | 0.82 |

### GENERAL DATA

|                                       |                       |                                      |               |
|---------------------------------------|-----------------------|--------------------------------------|---------------|
| Efficiency class                      | -                     | Sound pressure level [dB]            | 65            |
| Frame size                            | 315                   | Sound power level [dB]               | 75            |
| 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                    | 6318C3        |
| Frequency converter supply            | on demand             | Bearing on ND-side                   | 6318C3        |
| Mounting arrangement                  | IMB3/B5/B35           | Bearings regreasing                  | yes           |
| Cooling method                        | IC411                 | Housing - material                   | cast iron     |
| Weight [kg]                           | 890                   | Feet - material                      | cast iron     |
| Moment of inertia [kgm <sup>2</sup> ] | 2.86                  | Bearing shields - material           | cast iron     |
| Direction of rotation                 | CW/CCW                | Painting                             | RAL5010       |
| Degree of protection                  | IP66 (2D) / IP56 (3D) | Climatic execution                   | N             |

### ENVIRONMENTAL CONDITIONS

|                          |                    |                              |            |
|--------------------------|--------------------|------------------------------|------------|
| Ambient temperature [°C] | from -20 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 | 2 x PTC (1pc/bearing) |
| Cable glands/inlets            | 2 + 1   | Winding heaters                 | on demand             |
| Temperature sensors in winding | 3 x PTC | Optional accessories            | on demand             |

### STANDARDS

EN 60034-1, EN 60079-0, EN 60079-15, EN 60079-31

### CERTIFICATES

ATEX

### ADDITIONAL INFO

|            |   |  |
|------------|---|--|
| Ex marking | II 2D,3D Ex t IIIC,IIIB<br>T120°C Db / II 3G ExnA II<br>T4 Gc |  |
|------------|---|--|