

# Datenblatt für IEC Motoren

## Data sheet for IEC motors



### Bestell-Daten / Ordering Data

|                                        |                               |
|----------------------------------------|-------------------------------|
| Artikelnummer<br>item number           | 225-8-18,5-B3-3               |
| Artikelbezeichnung<br>item description | 225S-8-B3-18,5-400~690V (IE3) |

### Elektrische Daten / Electrical Data

|                                                                                                      |             |       |          |
|------------------------------------------------------------------------------------------------------|-------------|-------|----------|
| Bemessungsspannung<br>Rated motor voltage                                                            | 400/690V    | /     | 460V     |
| Bemessungsfrequenz<br>Rated Frequency                                                                | 50/60Hz     |       |          |
| Bemessungsleistung P <sub>n</sub><br>Rated motor power P <sub>n</sub>                                | 18,5kW      | /     | 21,275kW |
| Bemessungsdrehzahl<br>Rated motor speed                                                              | 735/882 rpm |       |          |
| Bemessungsmoment<br>Rated motor torque                                                               | 238,8 Nm    |       |          |
| Bemessungsstrom<br>Rated motor current                                                               | 39,2/22,6A  | /     | 41,04A   |
| Anzugs-/ Bemessungsstrom<br>Starting-/ Rated motor current                                           | 6,6         |       |          |
| Kipp-/ Bemessungsmoment<br>Breakdown/ Rated motor torque                                             | 2           |       |          |
| Anzugs-/Bemessungsmoment<br>Starting-/ Rated motor torque                                            | 1,9         |       |          |
| Wirkungsgrad bei 50Hz/60Hz<br>Efficiency at 50Hz/60Hz                                                | 90,1%       | 90,1% | 88,3%    |
| 100 % P <sub>n</sub> , 75 % P <sub>n</sub> , 50 % P <sub>n</sub><br>100 %, 75 % and 50 % rated power | 90,2%       | 91,7% | 91,4%    |
| Wirkungsgradklasse<br>Efficiency class                                                               | IE3         | /     | IE3      |
| Leistungsfaktor<br>Power factor                                                                      | 0,76%       |       | 0,78%    |

### Mechanische Daten / Mechanical Data

|                                                                    |                               |    |           |
|--------------------------------------------------------------------|-------------------------------|----|-----------|
| Schalldruckpegel (L <sub>p</sub> A) 50 Hz/60Hz<br>Noise 50Hz/60 Hz | IEC 60034-9                   |    |           |
| Trägheitsmoment<br>Moment of inertia                               | 0,656 kgm <sup>2</sup>        |    |           |
| Lager AS<br>Bearing AS                                             | 6313.2Z.C3                    |    |           |
| Lager BS<br>Bearing BS                                             | 6313.2Z.C3                    |    |           |
| Art der Lagerung<br>Locating bearing                               | Loslager                      | /  | Festlager |
| Lagerlebensdauer<br>Bearing life time                              | 20.000 h                      |    |           |
| Nachschmiereinrichtung<br>Regreasing device                        | nein                          |    |           |
| Schmiermittel<br>Type of lubrication                               | bearing Lebensdauerschmierung |    |           |
| Fettgebrauchsdauer bei 40°C<br>Relubrication interval at 40°C      | 20.000 h                      |    |           |
| Fettmenge Nachschmierung<br>Quantity of grease for relubrication   | nein                          |    |           |
| Außere Erdungsklemme<br>External earthing                          | nein                          |    |           |
| Kondenswasserlöcher<br>Drain Holes                                 | nein                          |    |           |
| Anstrich<br>Paintwork                                              | RAL7030                       | C2 | glänzend  |

### Allgemeine Daten / General Data

|                                                                   |           |
|-------------------------------------------------------------------|-----------|
| Baugröße<br>Frame size                                            | 225       |
| Bauform<br>Type of construction                                   | IM B3     |
| Gewicht in kg , ohne Zubehör<br>Weight in kg, without accessories | 300,00 kg |
| Gehäusematerial<br>Frame material                                 | Grauguss  |
| Schutzart<br>Degree of protection                                 | IP55      |
| Kühlart, TEFC<br>Method of cooling, TEFC                          | IC 411    |
| Vibrationsklasse<br>Vibration class                               | A         |
| Wärmeklasse<br>Insulation                                         | F         |
| Betriebsart<br>Duty type                                          | S1        |
| Drehrichtung<br>Direction of rotation                             | rechts    |

### Klemmenkasten / Terminal box

|                                                                    |                   |
|--------------------------------------------------------------------|-------------------|
| Klemmenkastenmaterial<br>Material of terminal box                  | Aluminium         |
| Typ<br>Typ                                                         | standard(200/225) |
| Gewinde Kontaktschraube<br>Terminal screw thread                   | M8                |
| Max. Leiterquerschnitt<br>Max. cable diameter                      | 25                |
| Kabeldurchmesser von ... bis ...<br>Cable diameter from ... to ... |                   |
| Kabeleinführung Gewinde<br>Cable entry thread                      | 2xM50X1,5         |
| Kabelverschraubung<br>Cable gland                                  | Blindstopfen      |

### Explosionsschutz / Explosion protection

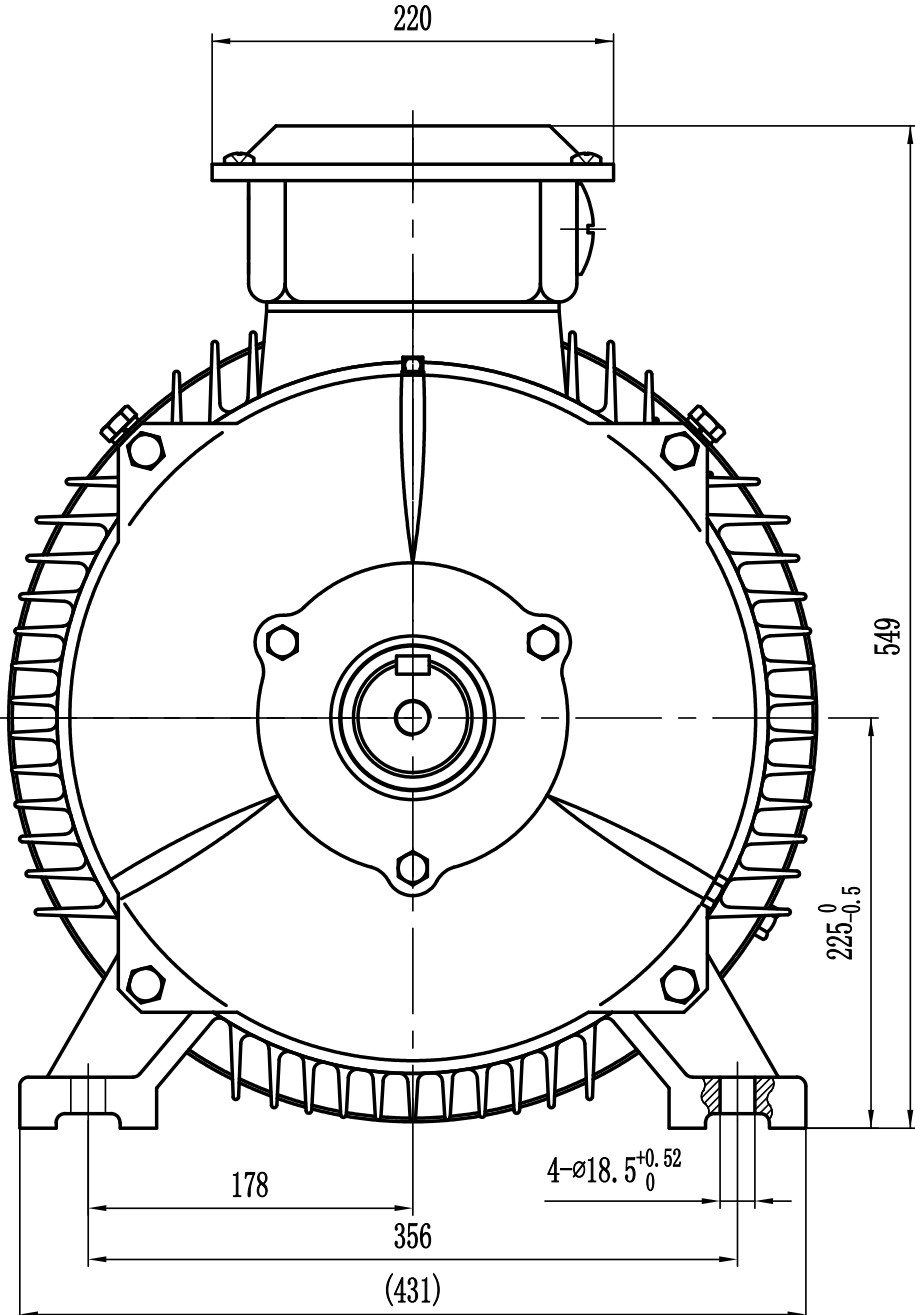
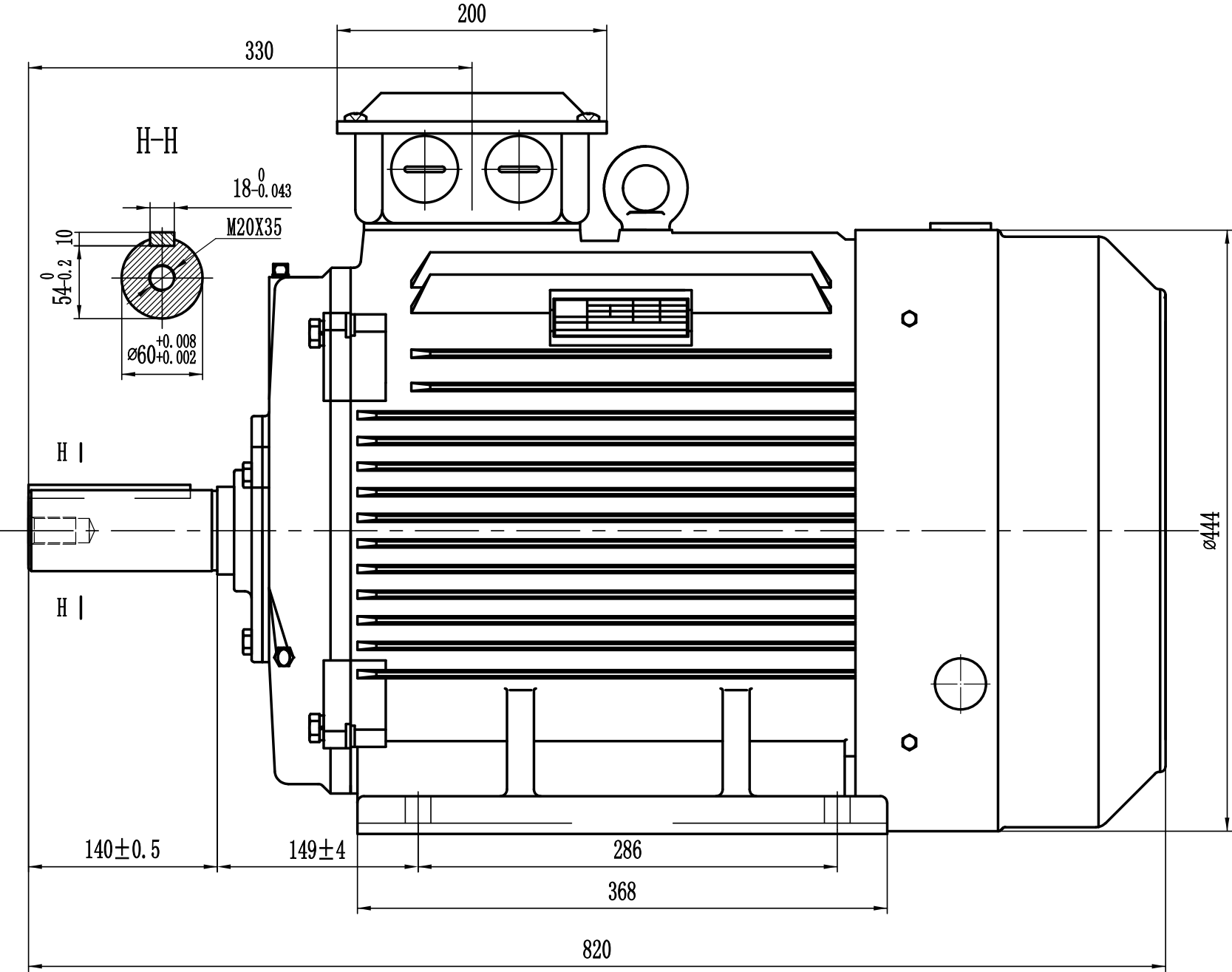
|                                     |  |
|-------------------------------------|--|
| Zündschutzart<br>Type of protection |  |
|-------------------------------------|--|

### Umgebungsbedingungen / Site conditions

|                                                         |                            |
|---------------------------------------------------------|----------------------------|
| Umgebungstemperatur<br>Ambient temperature              | -20 bis +40°C              |
| Höhe über Meeresspiegel<br>Altitude above sea level     | <1.000 m                   |
| Normen und Vorschriften<br>Standards and specifications | IEC / DIN / ISO / VDE / EN |

### Sonderausführungen / Special configurations

|                                                          |      |
|----------------------------------------------------------|------|
| Schutzeinrichtung Wicklung<br>thermal protection winding | 3PTC |
|                                                          |      |
|                                                          |      |



technical requirement  
Shaft extension keyC18x120(GB/T1096)

|            |                        |                 |                                                     |  |  |               |        |            |
|------------|------------------------|-----------------|-----------------------------------------------------|--|--|---------------|--------|------------|
|            |                        |                 | IE3-225S-8-B3-<br>18.5-400/690V<br>overview Drawing |  |  | 1DDT.070.3012 |        |            |
|            |                        |                 |                                                     |  |  | Pattern mark  | Weight | proportion |
| sign       | Change document number | date            |                                                     |  |  | S             |        |            |
| Design     |                        | Standardization |                                                     |  |  |               |        |            |
| Proofread  |                        | Approved by     |                                                     |  |  |               |        |            |
| to examine |                        | approval        |                                                     |  |  |               |        |            |
| technology |                        | date            |                                                     |  |  |               |        |            |