

## THREE-PHASE-ASYNCHRONOUS-MOTOR AWR 315 LB 4 /PHE

IE3OM31LB405

### General data

|                          |                                |
|--------------------------|--------------------------------|
| Type of motor            | 3~                             |
| Type designation         | AWR                            |
| Frame size               | 315                            |
| Mounting                 | B3                             |
| Frame execution          | L                              |
| Frame material           | Grauguß                        |
| Insulationclass          | F/B                            |
| Terminal box location    | right DE                       |
| Terminal box orientation | cable gland to the bottom side |
| Weight (kg)              | 1200                           |
| Rotation Direction       | right /left                    |
| Vibration level          | A                              |
| Balancing method         | half key                       |
| cooling type             | IC411                          |
| Executed acc. to         | IEC 60034-1                    |
| noise level              | IEC 60034-9                    |

### Influential factors

|                          |               |
|--------------------------|---------------|
| Duty                     | S1            |
| Ambient temperature (°C) | -20 up to +40 |
| Height of location (m)   | 1000          |

### Electrical specification

|                                                           |               |
|-----------------------------------------------------------|---------------|
| Power 1 50Hz (kW)                                         | 200           |
| Power 1 60Hz (kW)                                         | 200           |
| Frequency (Hz)                                            | 50/60         |
| Voltage 50Hz (V)                                          | 400/690       |
| Voltage 60Hz (V)                                          | 460/795       |
| Voltage/Frequency tolerance (not valid for range voltage) | +/-10%        |
| Connection                                                | Δ/Y           |
| Poles                                                     | 4             |
| Efficiency 100% 50Hz (%)                                  | 96,0          |
| Efficiency 75% 50Hz (%)                                   | 96,1          |
| Efficiency 50% 50Hz (%)                                   | 93,1          |
| Efficiency 100% 60Hz (%)                                  | 96,2          |
| Power factor                                              | 0,87          |
| Starting current factor                                   | 6,9           |
| Starting torque factor                                    | 2,1           |
| Tilting moment factor                                     | 2,2           |
| Rated current 50Hz (A)                                    | 341,70/198,10 |
| Rated current 60Hz (A)                                    | 299,94/173,96 |
| Eff.Cl.50Hz                                               | IE3           |
| Eff.Cl.60Hz                                               | IE3           |

### Mechanical data

|                                     |                 |
|-------------------------------------|-----------------|
| Torque (Nm)                         | 1286,20/1075,62 |
| Rotation speed (1/min)              | 1480/1776       |
| Bearing DE                          | NU319           |
| Bearing NDE                         | 6319.C3         |
| Mounting of bearing DE              | loose bearing   |
| Mounting of bearing NDE             | fixed bearing   |
| Bearing lifetime                    | 20000           |
| allow. Radial load (X/2)            | 22800           |
| allow. Radial load (X0)             | 22000           |
| allow. Axial load B3,B5,B35,B14,B34 | 7875            |
| allow. Axial load V1,V3,V19,V18     | 4430            |
| Moment of inertia                   | 4,47            |

### Motor properties

|                                     |             |
|-------------------------------------|-------------|
| Color                               | RAL7030     |
| Paint surface                       | shiny       |
| Protection class                    | IP55        |
| Cable gland size (cable connection) | 2xM63x1,5   |
| Cable gland size (option)           | M20x1,5     |
| Cable gland type                    | Standard    |
| Shaft end                           | 80 x 170    |
| Shaft material                      | C45         |
| Specification NDE                   | Plastic fan |

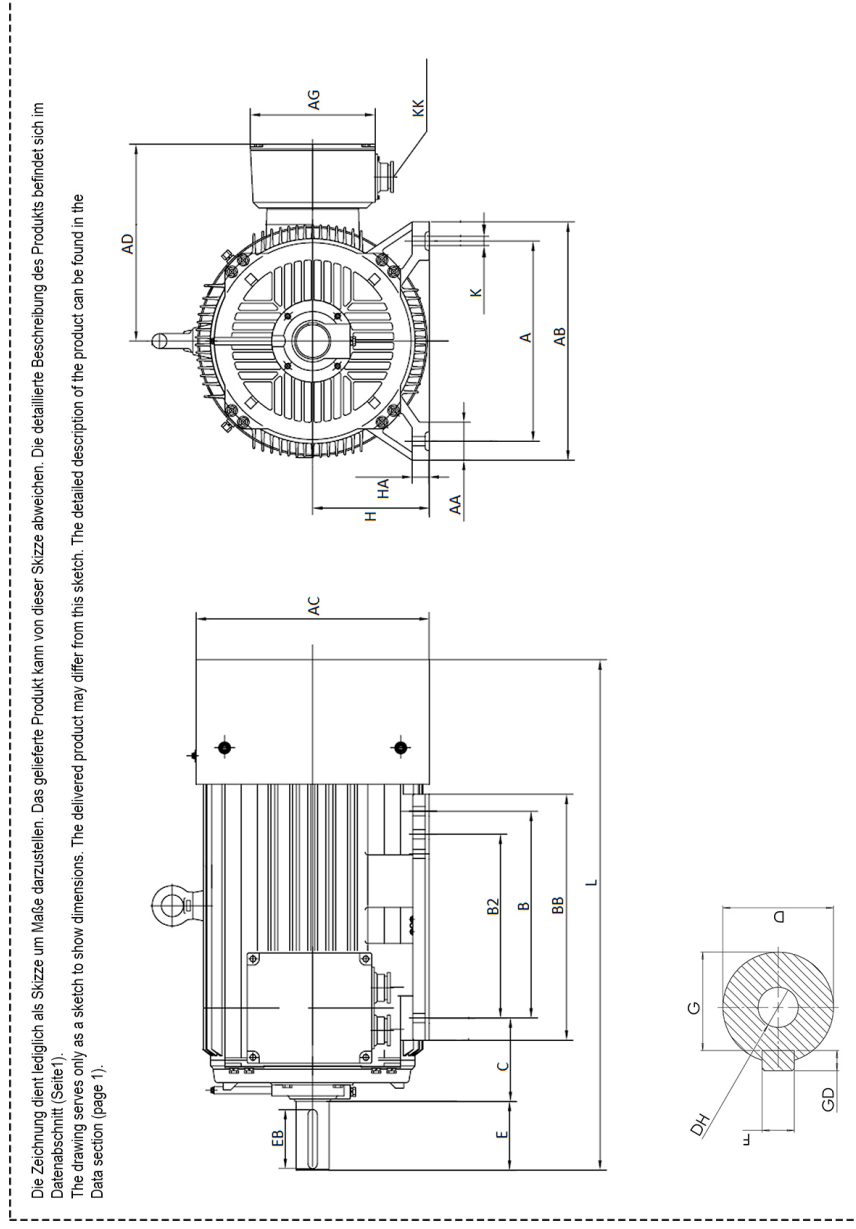
### Additional operating points

|                                    |         |
|------------------------------------|---------|
| Voltage operating point 2          | 460/795 |
| Power operating point 2 (kW)       | 240     |
| Connection operating point 2       | Δ/Y     |
| Frequency operating point 2        | 60      |
| Efficiency class operating point 2 | IE2     |

### Additional option

|                                        |           |
|----------------------------------------|-----------|
| Protection winding                     | PTC 150°C |
| Regreasing device                      | AS+BS     |
| Condensate draining hole               | ✓         |
| Condensate draining hole sealing screw | ✓         |
| Oil sealed                             | ✓         |

Three-Phase-Asynchronous-  
Motor AWR 315 LB 4 /PHE  
IE3OM31LB405

[illegible]