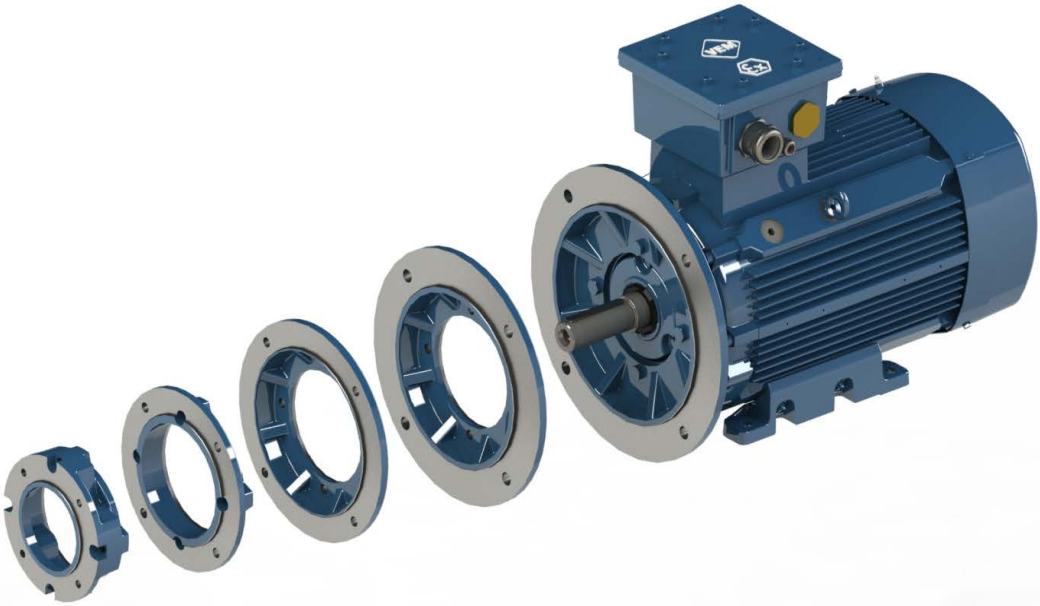
Made in Germany

# Flameproof Encapsulated Asynchronous Motors

VEM
ELECTRIC DRIVES
FOR EVERY DEMAND

Typ: IE3-W4 ... R ... Ex db (eb)
Typ: IE3-KP(E)RD ... Ex db (eb)
Typ: IE4-W6 ... R ... Ex db (eb)



## Highlights

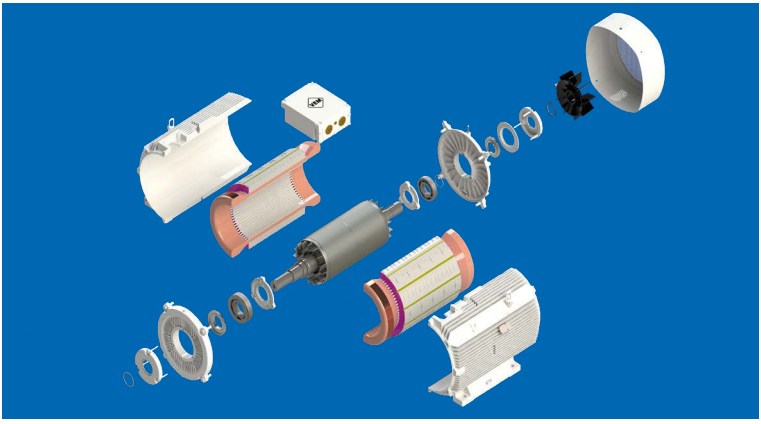
- Variable flange mounting
- Removable motor feet
- Modifiable terminal box

CE Ex

VEM eKAT V10

## At a Glance

- variable flange mounting
- terminal box in Ex db or Ex eb version available
- cable outlet directions D-S, N-S, left and right are directions D-S, N-S, left and right in transverse direction possible
- connection technology is available as a terminal board, WAGO TOP-JOB terminals and as free stranded wires available
- further add-on components:
  e.g. feedback systems, brakes and forced cooling fans in the corresponding type of protection
- Energy efficiency class IE3 and IE4 available
- Number of poles available: 2, 4, 6 and 8; others on request
- Screw-on feet are available in different lengths and heights
- suitable for FI operation

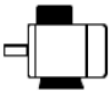
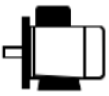


## Special features of the VEM FLEX version

1 - motor feet can be removed
2 - flange ring can be dismantled; without opening the flaming proof chamber
- special flange dimension can be realized subsequently
3 - terminal box can be rotated by 90°C; thus cable entry left/ right/ DE side/ NDE side
- terminal box can be changed at a later date (right/ left/ top/ bottom)

## Application examples

In the IM V15 (FLEX) version, the following desgins can be realized with minor conversion measures without haveing to open the flameproof chamber:

| IM B3 | IM B35 | IM V1 | IM V5 | IM V15 |
|---|---|---|---|---|
|  |  | | | |

| Technical facts | IE-W4 … R ….. Ex db (eb)<br>IE3-KP (E) RD ….. Ex db (eb)<br>IE4-W6 … R ….. Ex db (eb) |
|---|---|
| Voltage | 230/400 V, 400/690 V, 290/500 V or on request (max. 690 V) |
| Frequency | 50/ 60 Hz |
| Explosion protection | Ex db, Ex db eb, Ex tb, IIC, IIIC, temperature class: IIC T4 (T6) |
| Types of protection | IP 55, IP 56, IP 65, IP 66 |
| Sizes | 63 to 315 |
| Design | IM B3, IM B5, IM B35, IM V1, other sizes on request |
| Application range | Zone 1<br>optional Zone 21/22 |
| Efficiency | IE 3 or IE 4 |
| Operating modes | S1 (S9)<br>other operating modes on request |
| Ambient temerature | (-40 °C), -20°C to +40°C (+55°C) |
| Certificates/ Standards/ Recommendations | ATEX product directive 2014/34/EU (IBExU)<br>IECEx (in preperation)<br>IEC 60079-1:2014<br>IEC 60079-7:2015<br>IEC 60079-31:2013<br>Optional according to VIK 01/2018 („db eb“) |