

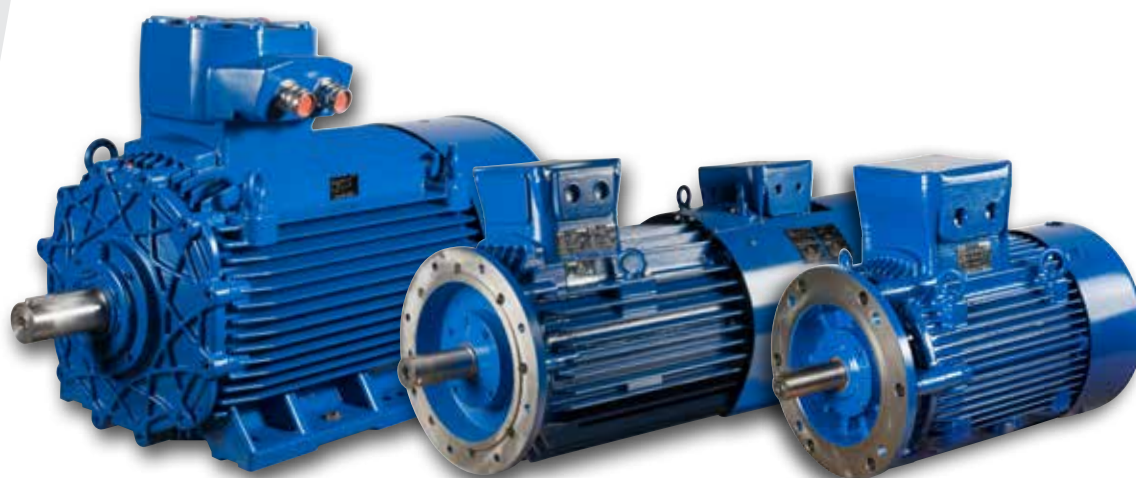
**cemp**

Flameproof  
Motors



# INDUSTRIAL ATEX - IECEX MOTORS FOR HAZARDOUS LOCATIONS

NOVEMBER 2021 | EUROPE



**RegalRexnord**<sup>™</sup>

# A COMPREHENSIVE RANGE OF

## TYPE OF MOTOR



### FLAMEPROOF ELECTRIC MOTOR

#### E3.../E4A... Series - IE3/IE4 Gas & Dust Version

- According to standards:
  - IEC®/EN 600079-0, 1, 7, 31
  - IEC 60034-1, 2, 5, 6, 7, 8, 9, 12, 14, 30
  - IEC 60072
- Ex db, Ex db eb, Ex tb, Ex tc
  - Terminal box Ex db or Ex eb available
  - Continuous duty or intermittent duty
- ATEX® category I M2, II2G, II2D, II2GD
- Gas group I, IIB, IIC
- Dust group IIIB, IIIC
- Temperature classes T3, T4, T5, T6
- Surface temperature classes (Dust) T150°C - T135°C - T125°C - T100°C - T85°C
- Protection IP55, IP56, IP65, IP66
- Frame size from 80 to 355 (IEC)
- Power 0,75 - 375 kW
- 400V, 50Hz (multi voltage 380-400- 415V/50Hz and 460V/60Hz)
- Pole 2, 4, 6, 8
- Self-cooling (IC411); Forced cooling (IC416); Not ventilated (IC410); Totally enclosed air over (IC418)
- Premium efficiency IE3; Super-premium efficiency IE4 available, as well as IE1/IE2
- Certified ATEX and IECEx®\*
- Certified GMEE®\*



### TerraMAX® DUST AND NON-SPARKING ELECTRIC MOTORS

#### TCN/TCT/TCE Series Gas & Dust Version

- According to standards:
  - IEC/EN 600079-0, 15, 31
  - IEC 60034-1, 2, 5, 6, 7, 8, 9, 12, 14, 30
  - IEC 60072
- Ex ec, Ex tb, Ex tc, Ex eb
- ATEX category II2G, II3G, II3GD, II2D
- Gas group IIB, IIC
- Dust group IIIB, IIIC
- Temperature classes T3
- Surface temperature classes (Dust) T150°C - T135°C - T120°C - T100°C - T85°C
- Protection IP55, IP56, IP65, IP66
- Frame size from 80 to 355 (IEC)
- Power 0,75 - 375 kW
- 400V, 50Hz and 460V/60Hz
- Pole 2, 4, 6, 8
- Self-cooling (IC411); Forced cooling (IC416); Not ventilated (IC410); Totally enclosed air over (IC418)
- Premium efficiency IE3; Super-premium efficiency IE4 available
- Certified ATEX and IECEx
- Certified GMEE



### FLAMEPROOF ELECTRIC MOTORS WITH BRAKE

#### E3...H/D-E4...H/D Series - IE3/IE4 Gas & Dust Version

- According to standards:
  - IEC/EN 600079-0, 1, 7, 31
  - IEC 60034-1, 2, 5, 6, 7, 8, 9, 12, 14, 30
  - IEC 60072
- Motor enclosure Ex db (flameproof) and brake in separate Ex db enclosure
- Terminal box Ex db or Ex eb available
- Multiple choice for brake torque available
- \*Continuous duty or intermittent duty
- Ex db, Ex db eb, Ex tb, Ex tc
- ATEX category II2G, II2D, II2GD
- Gas group IIB, IIC
- Dust group IIIB, IIIC
- Temperature classes T3, T4, T5, T6
- Surface temperature classes (Dust) T150°C - T135°C - T125°C - T100°C - T85°C
- Protection IP55, IP56, IP65, IP66
- Frame size from 80 to 315 (IEC)
- Power 0,75 - 200 kW
- 400V, 50Hz (multi voltage 380-400- 420V/50Hz and 460V/60Hz)
- Pole 2, 4, 6, 8 and dual speed motor (separate windings or Dahlander)
- Self-cooling (IC411); Forced cooling (IC416); Not ventilated (IC410)
- Premium efficiency IE3; Super-premium efficiency IE4 available, as well as IE1/IE2
- Certified ATEX and IECEx
- Certified GMEE



### ALUMINUM FRAME 56

#### AAB30/AAC30 Series Gas & Dust Version

- According to standards:
  - IEC/EN 600079-0, 1, 31
  - IEC 60034-1, 2, 5, 6, 7, 8, 9, 12, 14, 30
  - IEC 60072
- Ex db, Ex tb
- ATEX category II2G, II2GD
- Gas group IIB, IIC
- Dust group IIIB, IIIC
- Temperature classes T3, T4, T5, T6
- Surface temperature classes (Dust) T150°C - T135°C - T125°C - T100°C - T85°C
- Protection IP55, IP56, IP65, IP66
- Frame size 56 (IEC)
- Mounting B3, B14, B34, B5, B35, PAD mounted
- Power 0,06 - 0,12 kW
- Three phase
- 400V, 50Hz (multi voltage 380-400-415V/50Hz and 460V/60Hz)
- Pole 2, 4, 6
- Not ventilated (IC410) / Terminal box on the back side
- PTC for inverter use
- Certified ATEX and IECEx

# MOTORS FOR HAZARDOUS AREAS

## MAIN OPTIONS

### MECHANICAL

- Special flanges and shafts
- Plate with cables gland, or seal joints and conduit (terminal box not included)
- Locked bearings, roller bearings or special bearings
- Terminal box on side
- SPM probe (vibration measurement)
- Double ended shafts
- Cable gland fitted to terminal box
- Condensation drain valve
- Grade A or B vibration levels
- Rain cap, sun shield or water shredding disk
- Low noise
- Auxiliary terminal box
- Low (-60°C) temperature motors

### ACCESSORIES

- Forced ventilation (IC416)
- Encoders (100 – 10000 ppr)
- Bearing sensors
- Bimetallic thermal protection (NC, NO), thermistors (PTC), platinum resistor (PT100)
- Anti-condensation heaters

### ELECTRICAL

- Special voltage and frequency
- Three phase 2 speeds
- Single phase with permanent capacitor
- Motors for tropical climates
- Electrical special designs
- Class H insulation
- Suitable for frequency converter drives

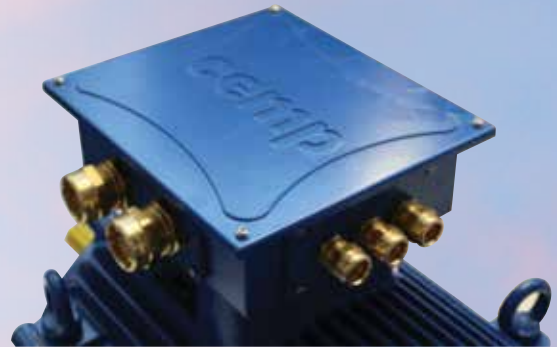
### BRAKE

- AC disc brakes
- DC disc brakes
- Brake hand release
- Braking when not energized
- Micro switch available from frame 90 and above

### ENGINEERING SERVICES

- Start-up behavior analysis
- Superimposed curve (Motor-driven machine)
- Load test and thermal test as per IEC 60034-2-1
- Torque speed curve measurement (Dynamic method)
- Insulation test
- ATEX, IEC Ex and UL approved for thermal test
- Bureau Veritas and Korean Register approved

### Ex eb increased safety stainless steel terminal box



### Totally enclosed fan ventilated



### Oversized terminal box



### Brake enclosure





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