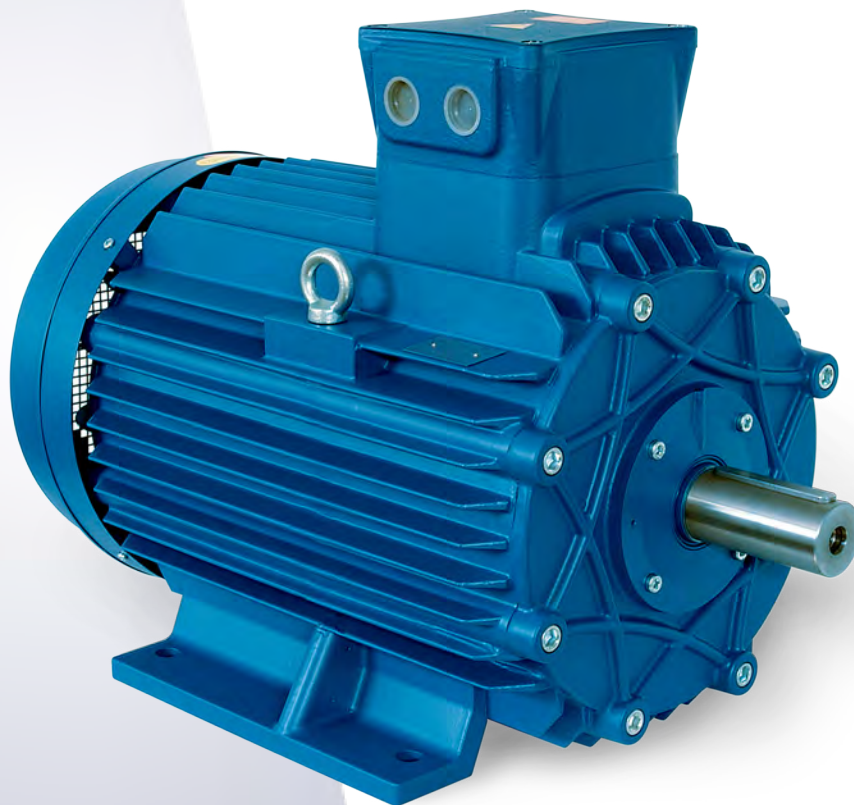


# cemp

Flameproof  
Motors

Atex - IECEx



A Regal Brand

**REGAL**

Quality System  
ISO 9001.2008

CSQ - IQNet

CISQ

LCIE

Production Quality  
Assurance Notification

Atex (Cesi)

IECEX (Cesi)

CUTR (Nanio)

Atex (LCIE)

International Standards

Atex directives

IEC

CUTR



# A comprehensive range



## Flameproof motors

### Series F, Aluminum

- To norms IEC 60079-0, 1, 7
- EX d, EX de / Ex-tb, Extc
- ATEX category 2D, 2G, 2GD
- Group IIB, IIC
- Temperature Class T3, T4, T5, T6
- To norm IEC 60079-31
- Zones 1,2 / 21, 22;
- Max surface temperature [°C]  
T150, T135, T100, T85
- Protection IP55, IP65
- To norms IEC 60034-1, 5, 6, 7, 8,  
9, 12, 14, 60072
- Frame size from 56 to 80 (IEC)
- Power from 0.06 to 1.5 kW
- Three phase 1 or 2 speed
- Single phase
- 400V, 50 Hz
- Pole 2, 4, 6, 8
- Ventilated & unventilated
- PAD mounting

### Series A, Cast iron

- To norms IEC 60079-0, 1, 7
- EX d, EX de
- ATEX category 2G
- Group IIB, IIC
- Temperature Class T3, T4, T5, T6
- To norms IEC 61241-0, 1
- Protection IP55, IP65
- To norms IEC 60034-1, 5, 6, 7, 8,  
9, 12, 14, 60072
- Frame size from 63 to 315 (IEC)
- Power from 0.12 to 200 kW
- Three phase 1 or 2 speed
- Single phase (frame size 63-100)
- 400V, 50 Hz
- Pole 2, 4, 6, 8
- Ventilated & with forced  
ventilation

### Series AM for mines

- To norms IEC 60079-0, 1, 7
- EX d, EX de
- ATEX category 1M2
- Group I (mine)
- Protection IP55, IP65, IP66
- To norms IEC 60034-1, 5, 6, 7, 8,  
9, 12, 14, 60072
- Power from 0.18 to 200 kW
- Three phase 1 or 2 speed
- 400V, 50 Hz
- Pole 2, 4, 6, 8
- Ventilated & with forced  
ventilation

## With brake

### Series D, H Cast iron

- To norms IEC 60079-0, 1, 7
- EX d, EX de - EX tb, EX tc
- ATEX category 2G - 2D, 3D
- Group IIB, IIC - IIIB, IIIC
- Temperature Class T3, T4 - T135°C
- To norms IEC 61241-0, 1 - IEC  
60079-31
- Protection IP55 - IP66
- To norms IEC 60034-1, 5, 6, 7, 8,  
9, 12, 14, 60072
- Frame size from 71 to 315 (IEC)
- Power from 0.12 to 110 kW
- Three phase 1 or 2 speed
- 400V, 50 Hz
- Pole 2, 4, 6, 8
- Ventilated, unventilated & with  
forced ventilation
- AC or DC disk brake

M A I N O

## Mechanical variants

- Motors protection IP56, IP65, IP66
- Low temperature
- Special flanges and shafts
- Without terminal box (loose leads, armored  
cables)
- Uni-directional bearings, locked bearings,  
roller bearings or special bearings
- Terminal box on side
- SPM probe (vibrations measurement)
- Double ended shafts

- Cable gland fitted to terminal box
- Condensation drain valve
- Grade A or B balancing
- Rain cap or sun shield water shredding disk
- Low noise
- Auxiliary terminal box

## Electrical

- Special voltage and frequency
- Heaters
- Bimetallic thermal protection (NC, NO),  
thermistors (PTC), platinum resistor(PT100)
- Three phase 2 speeds
- Single phase with permanent capacitor
- Single phase with centrifugal switch
- Motors for tropical climates
- Low (-60°C) temperature motors (CUTR)
- Electrical special designs
- Class H insulation
- Anti-condensation heaters

## Products certification

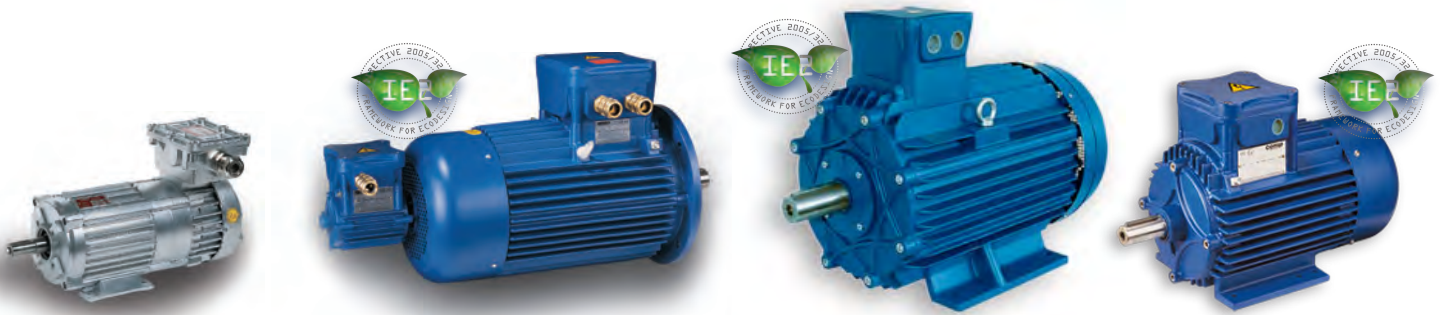
### Standards Shipping classification Societies

Bureau Veritas	Lloyd Register
Korean Register of Shipping	R.I.Na.
Nippon Kaiji Kyokai	Det Norske Veritas
Germanischer Lloyd	American Bureau of Shipping

## Fiduciary Test Room

Cesi
Bureau Veritas
Korean Register of Shipping

# Range of motors for hazardous areas



### Frequency converter

### Non Sparking

### Dust proof

#### Series F-F, Aluminum

- To norms IEC 60079-0, 1, 7
- EX d, EX de / Ex-tb, Extc
- ATEX category 2D, 2G, 2GD
- Group IIB, IIC
- Temperature Class T4, T5
- To norm IEC 60079-31
- Zones 1,2 / 21, 22;
- Max surface temperature [°C] T125, T70
- Protection IP55, IP65
- To norms IEC 60034-1, 5, 6, 7, 8, 9, 12, 14, 60072
- Frame size from 63 to 80 (IEC)
- Power from 0.06 to 1.5 kW
- Three phase 1 or 2 speed
- 400V, 50 Hz
- Pole 2, 4, 6, 8
- Ventilated & unventilated
- AC or DC disk brake

#### Series A, Cast iron

- To norms IEC 60079-0, 1, 7
- EX d, EX de
- ATEX category 2G
- Group IIB, IIC
- Temperature Class T3, T4
- Protection IP55, IP65
- To norms IEC 60034-1, 5, 6, 7, 8, 9, 12, 14, 60072
- Frame size from 63 to 315 (IEC)
- Power from 0.12 to 200 kW
- Three phase 1 or 2 speed
- 400V, 50 Hz
- Pole 2, 4, 6, 8
- Ventilated & with forced ventilation

#### Series AN, Cast iron

- To norms IEC 60079-0, 1, 7
- EX nA
- ATEX category 3G
- Group IIB, IIC
- Temperature Class T3
- To norms IEC 60079-31
- Protection IP55
- To norms IEC 60034-1, 5, 6, 7, 8, 9, 12, 14, 60072
- Frame size from 63 to 315 (IEC)
- Power from 0.12 to 200 kW
- Three phase 1 or 2 speed
- 400V, 50 Hz
- Pole 2, 4, 6, 8
- Ventilated & with forced ventilation

#### Series AD, Cast iron

- To norms IEC 60079-0, 1, 7
- EX tb, EX tc
- ATEX category 3D
- Group IIIB, IIIC
- Temperature Class T135 °C
- To norms IEC 60079-31
- Protection IP55, IP65
- To norms IEC 60034-1, 5, 6, 7, 8, 9, 12, 14, 60072
- Frame size from 63 to 315 (IEC)
- Power from 0.12 to 200 kW
- Three phase 1 or 2 speed
- 400V, 50 Hz
- Pole 2, 4, 6, 8
- Ventilated & with forced ventilation

#### Series AQ, Cast iron (Gas + Dust)

- EXnA + EXtb, EXtc
- ATEX category 3G + 2D,3D
- Temperature C. T3 + T135°C

## P T I O N S

### Accessories

- Suitable for frequency converter drives
- Forced ventilation (IC416)
- Encoders (100 – 10000 ppr)
- Thachogenerator
- Bearing sensors
- Suitable for AC drives

### Brakes

- AC disc brakes
- DC disc brakes
- Brake hand release
- Braking when energized

### Engineering services

- Start-up behavior analysis
- Superimposed curve (motor + driven machine)

# cemp

Flameproof  
Motors

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