



Keeping Industry Turning

Your Solutions for the quarry industry

# Your Solutions for the quarry industry

IE4 efficiency  
motors  
available

## Reliably and efficiently driving the quarry industry

Reliability is considered to be one of the critical factors within the quarry industry. The high quality of build and proven robustness of Brook Crompton motors is ideally suited to the quarry industry.

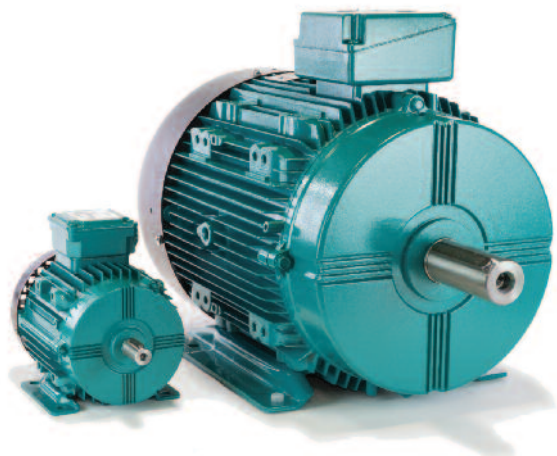
Over 90 % of all industrial electrical energy consumed within the quarry industry is used to drive electric motors, to help with this high demand of energy Brook Crompton can supply motors that meet IE3 or IE4 efficiency levels.

## The Brook Crompton range of AC motors:

Brook Crompton's range of adaptable AC electric motors meet international standards for outputs, performance, dimensions and mounting with efficiency levels that meet the latest ErP directive.

Brook Crompton's range of Safe Area and Ex certified motors are available from 0.09kW to 25MW to the following specifications:

- Low voltage & High voltage up to 11kV.
- Gas or Dust protection.
- Zone 1 Ex db / db eb
- Zone 2 Ex nA non sparking
- IIB or IIC enclosure classes
- Increased outputs
- Brake motors
- Variable speed compliant
- Certified to: ATEX, IECEx, PTB, NEPSI, TestSafe.



## Variable speed drives and the quarry industry

Variable speed drives can give significant energy savings by reducing the speed of a motor when used to drive a centrifugal fan / pump.

A 10% speed reduction would result in a 30% reduction in energy.



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## Quarry Industry Solutions

Brook Crompton can match existing motors both mechanically and electrically. This can provide a more cost effective solution where fitting a standard electric motor could lead to expensive equipment modification or a reduction in performance.

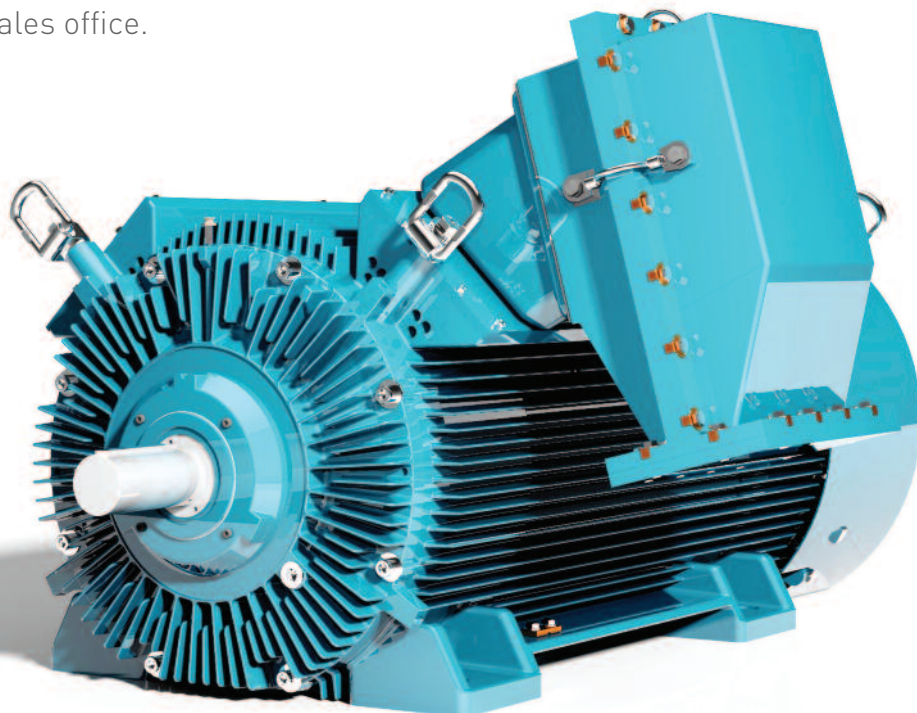
The following points should be considered when looking for a replacement motor:

- One out – one in
- Match the motor footprint or motor shaft
- Match the motor terminal box size and it's position
- Match the motor earth terminal size and it's position
- Stay within the original motors dimensions (where possible)
- Match the motor electrical performance
- Improve efficiency (where possible)
- Meet or exceed the requirements of the current specification
- Provide auxiliary devices or special features
- Minimise switch over disruption and costs



## High voltage

Brook Crompton can supply a range of high voltage motors in either 3.3kV, 6.6kV and 11kV. For more details on high voltage motors or any points within this leaflet then please contact your local sales office.





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