



Keeping Industry Turning

Your Solutions for the Oil & Gas industry



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Safe Area & Ex certified motors

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

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



Pump drives in a pipeline booster station Powered by a Schorch, Ex de IIB T4, 1450kW, 6kV, 2 pole motor

Brook Crompton explosion proof motors are used in many differing hazardous area applications within industry. Motors with flameproof enclosure, increased safety and pressurised apparatus are used for Zone 1 installations. Non-Sparking motors for Zone 2.

Variable speed drive solutions

Brook Crompton can offer safe area and hazardous area drive packages (including control panels).

For variable speed drive operations on motor frame sizes above a 280 frame size, insulated NDE bearings can be fitted, in-line with GAMBICA guidelines.

Variable speed drives can give significant energy savings. For example 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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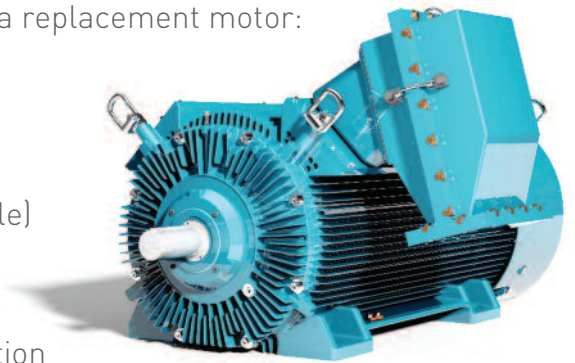
Oil & Gas industry solutions

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.

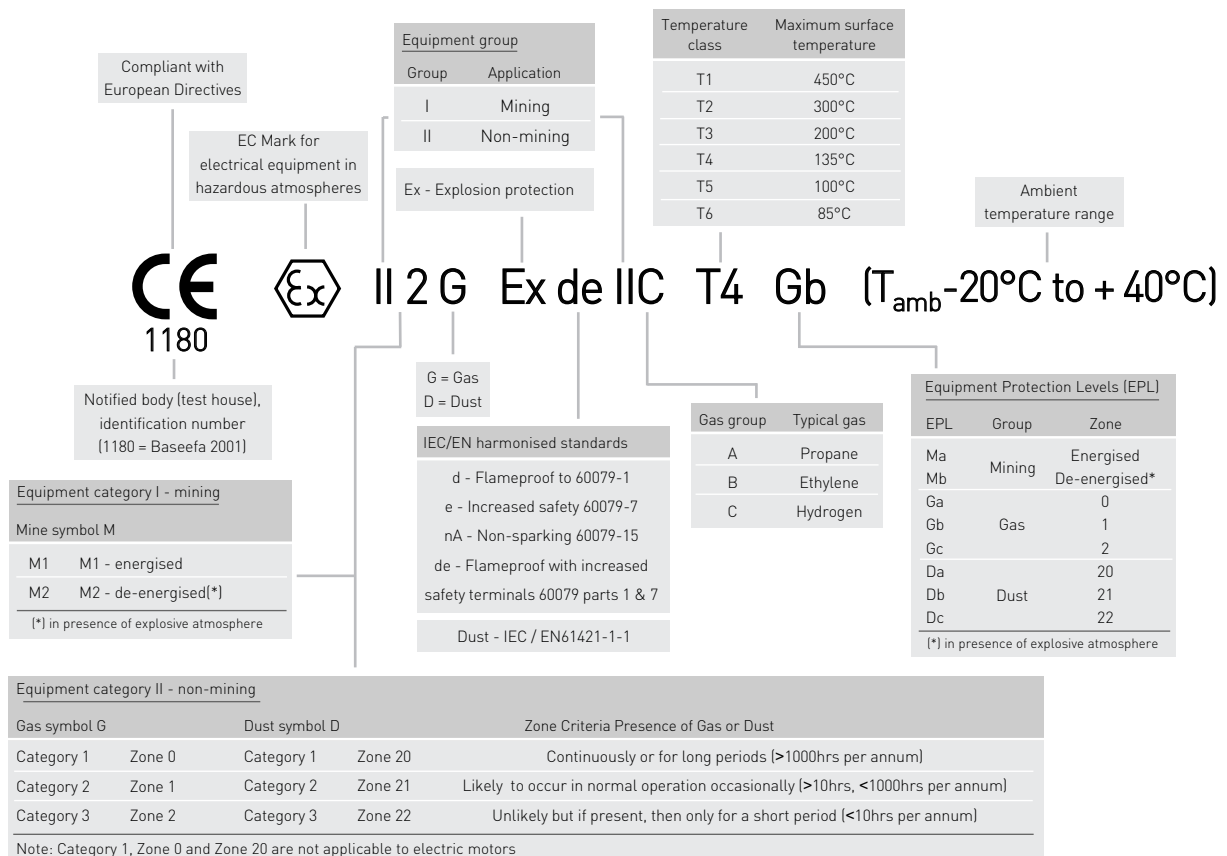
One out - One in

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

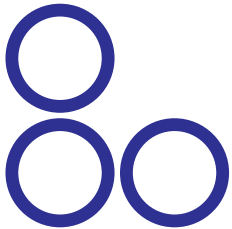
- Footprint and shaft dimensions
- Terminal box size and it's position
- Earth terminal size and it's position
- Stay within the original motors dimensions (where possible)
- Match the motor electrical performance
- Enhanced efficiency to latest IEC standards
- Meet or exceed the requirements of the current specification
- Provide auxiliary devices or special features
- Minimise switch over disruption and costs
- Stock modification



Ex ATEX markings



Note - M2 category equipment is to be de-energised or made safe, if firedamp is detected in it's vicinity and in a concentration exceeding 1.25% by volume in the general body of mine air.



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