



# Keeping Industry Turning

**WIMES**

Motors for the water industry



### Understanding WIMES

WIMES (Water Industry Mechanical and Electrical Specification) is a standard developed by 'The Pump Centre' in conjunction with the UK water utilities. To comply with WIMES, motors must meet or exceed the minimum defined standards.

### Energy Efficiency

IE3 up to and including 55kW and above 200kW. IE4 for 75kW to 200kW. This is the WIMES specification. Brook Crompton can offer a full range of IE4 and IE5 (PM & SYnRM) motors.

### Build Specification

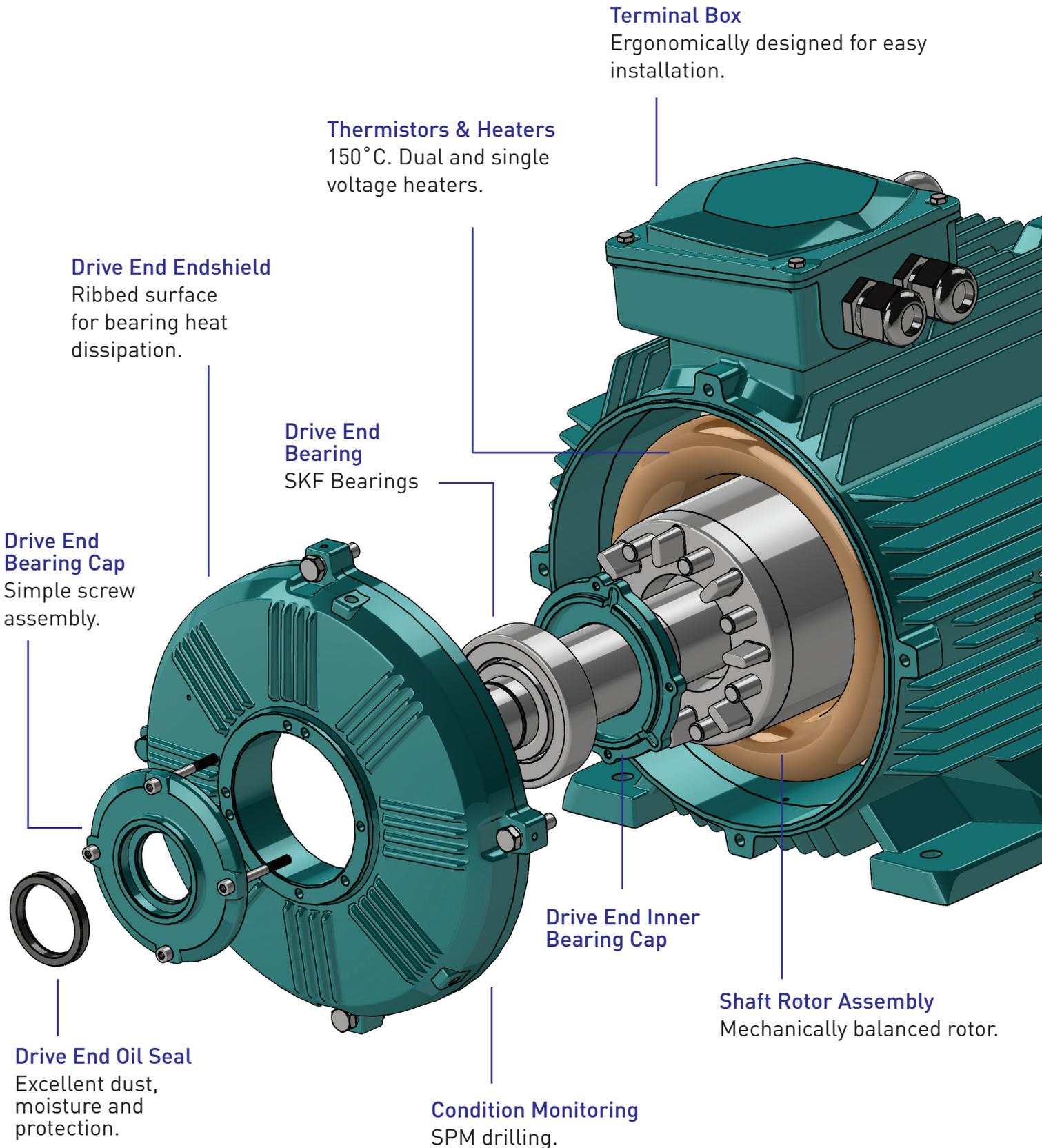
Brook Crompton WIMES motors are designed to have a low environmental impact, features include: Low maintenance costs, low noise levels, low running costs and including 3 years warranty and 5 year warranty on re-greasable bearings.

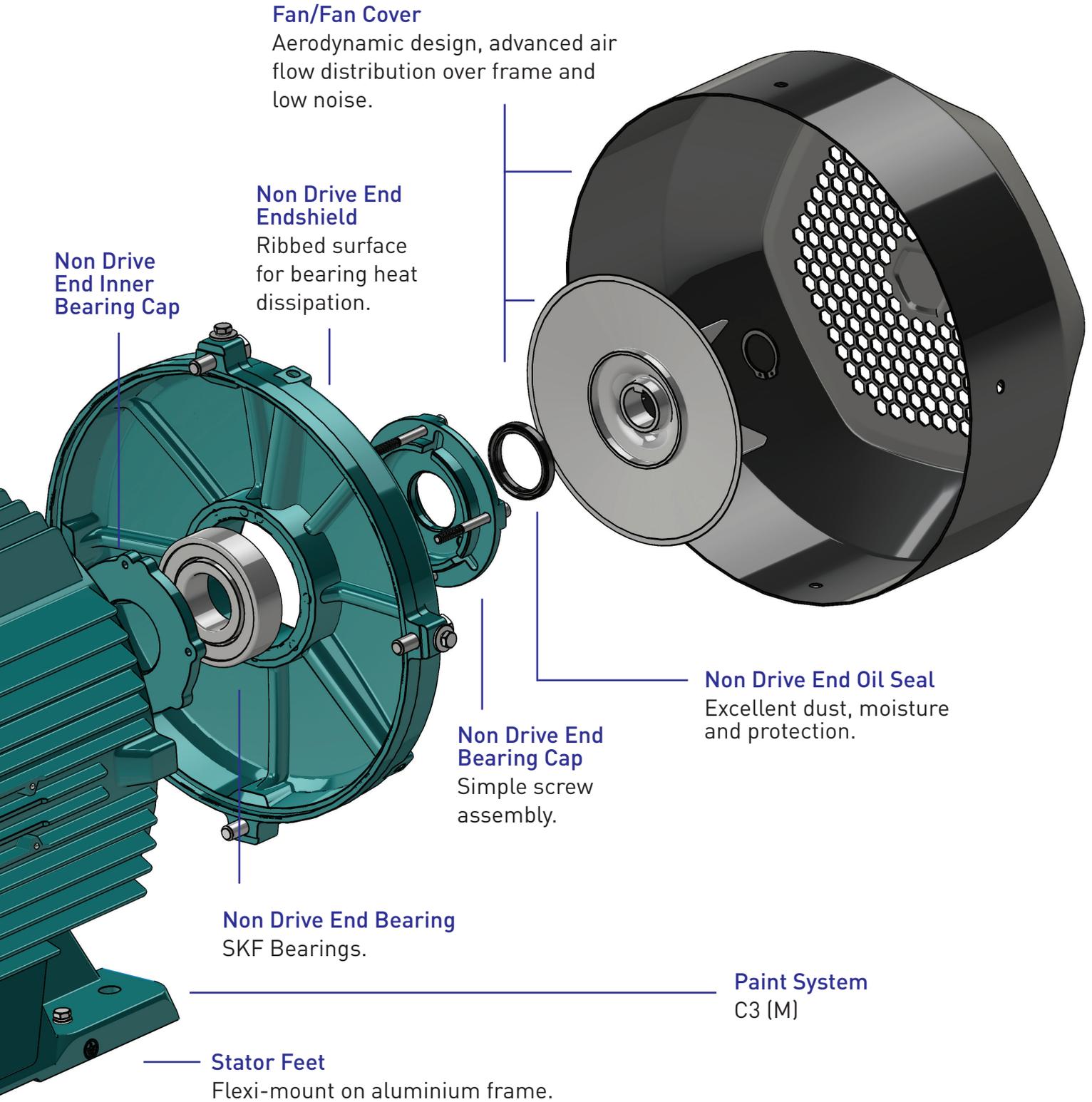
### Variable speed drives and the water industry

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.

Brook Crompton offers a wide range of drives for water industry application. Contact our sales team for more information.







**Fan/Fan Cover**

Aerodynamic design, advanced air flow distribution over frame and low noise.

**Non Drive End Endshield**

Ribbed surface for bearing heat dissipation.

**Non Drive End Inner Bearing Cap**

**Non Drive End Bearing Cap**

Simple screw assembly.

**Non Drive End Bearing**

SKF Bearings.

**Non Drive End Oil Seal**

Excellent dust, moisture and protection.

**Paint System**

C3 (M)

**Stator Feet**

Flexi-mount on aluminium frame.

- > PTC thermistors fitted in the windings to provide thermal protection against overheating.
- > Optional extra dual voltage heaters (110 / 230V) to protect against condensation.
- > High quality seals to protect the bearings from water and solids.
- > Steel fan cover with the option of a drip proof canopy for shaft down mounted applications.
- > WIMES Compliant sticker affixed to the fan cover to identify compliance.
- > High quality paint finish to comply with WIMES requirements.

### WIMES Nameplate

The Brook Crompton range of WIMES motors will include a stainless steel nameplate so the motor can be identified after long periods.

 <b>BROOK CROMPTON</b> <small>a WOLONG company</small> Shangyu, 312300 CN		 <b>WIMES</b>		3 ~ AC MOTOR IEC 60034  					
TYPE <b>WE3-90-2 NL</b>			P/No <b>090WN500001</b>		IM <b>B3</b>	YR <b>24</b>			
S/N: <b>2404328/001/001</b>		S <b>1</b>	IP <b>55</b>	23 kg	DE <b>6205 ZZ C3</b>				
Th.cl. <b>155 (F)</b>	AMB <b>40°C</b>	RISE <b>80 K</b>	Ref:		NDE <b>6203 ZZ C3</b>				
$\Delta$ / Y	Hz	kW	A	COS $\phi$	r/min	$\eta$ %	1.0	0.75	0.5
230 / 400	50	1.50	5.30 / 3.06	0.84	2885	IE3	84.2	84.9	84.1
460 Y	60	1.50	2.62	0.84	3462	IE3	85.5	85.9	85.1

### Durability

This life of an electric motor can range from a few years to several decades, depending on maintenance and other factors. Brook Crompton WIMES motors 5-year warranty is backed by the comprehensive build specifications.

### Reducing Cost of Ownership

Brook Crompton WIMES motors are designed from ground up to operate throughout their life with low consumption, providing high levels of energy savings and productivity in continuous and demanding applications. Brook Crompton, the original innovator in electric motor development, is a leading provider of energy efficient electric motors. With over 120 years of technical and design expertise.

### Energy Savings

Brook Crompton WIMES motors have high efficiency ratings of IE3 and IE4, meaning they convert a larger portion of electrical energy into mechanical power, reducing wasted energy and heat. Brook Crompton WIMES motors can achieve significant energy savings, especially when paired with a variable speed drive (VSD), by allowing precise speed control based on application needs, leading to reduced energy consumption compared to running a motor at a constant speed, particularly in scenarios where only partial power is required; this can result in energy savings ranging from 10% to 50% depending on the application.

### Brook Crompton WIMES Motor Range

**Material:** Cast Iron

**Frame Sizes:** 63-355

**Power:** 0.18kW - 375kW

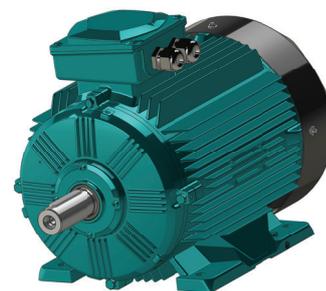
**Speed:** 2P / 4P / 6P / 8P

**Protection:** IP55

**Efficiency:** IE3 / IE4

**Standard Features:**

- > 150°C Thermistors
- > C3 (M) Paint System
- > Earths (Int. & Ext.)
- > Rotatable T.Box (90° x 4)
- > Sealed for life bearings (80 - 180 frame)
- > Re-greasable bearings (200 - 355 frame)
- > Vibration - Grade A
- > Metal Fan Cover



**Optional Extra Features:**

- > Single voltage heaters
- > Dual voltage heaters
- > Drip Proof Canopy (V1)
- > Inverter rating plate
- > Insulated bearing
- > (280+) SPM drilling
- > Jacking bolts

**BROOK  
CROMPTON**   
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