

Invicta EBK Flameproof Base Mount Vibrators - TECO Electric Motors Australia and New Zealand

Canonical: <https://electricmotors.teco.com.au/product/invicta-ebk-flameproof-base-mount-vibrators/>

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Invicta EBK Flameproof Base Mount Vibrators

Introducing the Electric Flameproof EBK Series Rotary Vibrator, a versatile and efficient equipment designed to meet your industrial needs. This high-quality vibrator boasts adjustable out-of-balance weights ranging from 0% to 100% at both ends, ensuring optimal performance and precision. Crafted as a Squirrel Cage Induction Type motor adhering to BS4999 / IEC60034 standards, this rotary vibrator is built to last. Its total enclosure, IC410, and IP66 specifications guarantee protection against dust and water ingress, enabling its seamless operation in various conditions.

Engineered for versatility, the base mount position (IM1081) vibrator motors included in this series are ATEX certified for both Zone 1 and Zone 2 environments. You can trust their reliability and safety in hazardous areas.

The Electric Flameproof EBK Series Rotary Vibrator has been meticulously designed to comply with the Ex db standard, ensuring its suitability even in ambient temperatures ranging from -20°C to +40°C. This robust equipment can handle voltages up to 690V, showcasing its versatility and reliability across power requirements.

Notably, the EBK20-40 model is approved for Gas Groups IIA and IIB, while the EBK45-75 model is approved for Gas Group IIA only. This classification further guarantees its suitability for various industrial environments, ensuring compatibility and safety.

For enhanced temperature monitoring and protection, the rotary vibrator comes with fixed speed T3 rated and 160°C thermistors, and T4 rated thermistors at 120°C. These vital components ensure optimal performance and prevent overheating, keeping your operations smooth and efficient.

Whether you require direct-on-line (DOL) starting or continuous duty S1 rating, or even VVVF inverter duty (subject to overspeed limitations), the Electric Flameproof EBK Series Rotary Vibrator has you covered. Its versatile design caters to different operational requirements, providing flexibility and convenience.

When it comes to insulation and temperature considerations, this rotary vibrator excels with its Class F insulation and class B temperature rise. Even in a 40°C ambient environment, this equipment maintains exemplary performance and ensures safety.

If you're working with higher temperature requirements, we have you covered with the EBKH range, capable of operating in temperatures up to 55°C. This extended range offers additional versatility for specific industrial applications.

The Electric Flameproof EBK Series Rotary Vibrator features an integral cast top-mounted terminal box for streamlined installation and maintenance convenience. This thoughtful design element allows for easy access, ensuring efficient wiring and troubleshooting.

In terms of aesthetics, the standard paint finish of this rotary vibrator boasts the timeless Hammertone Silver color, adding a touch of visual appeal to your industrial setup.

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Electric Flameproof EBK series rotary vibrator with adjustable out of balance weights (0-100%) at both end

Squirrel Cage Induction Type to BS4999 / AS1359

Total enclosed, IC410, IP66

Base mount (IM1081) vibrator motors ATEX certified for Zone 1 and Zone 2

Designed to Ex db standard in ambient temps of -20deg C to +40 deg C up to 690V

EBK20-40 approved for Gas Groups IIA and IIB and EBK45-75 for IIA only

Fixed speed T3 rated and 160 deg C thermistors must be connected and 120 deg C thermistors for T4 DOL starting, Duty S1 continuous rated or *VVVF Inverter duty (subject to overspeed limitations)

Class F insulation with class B temperature rise in a 40°C ambient

EBKH range available for temperatures to 55 deg C

Integral cast top mounted terminal box

Standard paint with finish colour Hammertone Silver

Enhanced Productivity resulting in improved efficiency and optimized performance in various industrial applications.

Reliable Motor Design ensures durability and longevity, minimizing downtime and maintenance costs.

Protection against Harsh Environments provide comprehensive protection against dust and water ingress, enabling reliable operation even in challenging working conditions.

The ATEX certification of the base mount position (IM1081) vibrator motors for Zone 1 and Zone 2 environments ensures adherence to stringent safety regulations, promoting a secure working environment.

Versatility in Temperature Range: Designed to comply with the Ex db standard, this rotary vibrator functions reliably in temperatures from -20°C to +40°C, accommodating various ambient conditions and expanding its operational versatility.

Approval for Multiple Gas Groups: The EBK20-40 model approved for Gas Groups IIA and IIB, and the EBK45-75 model approved for Gas Group IIA, guarantee its suitability for a wide range of hazardous industrial environments.

Efficient Temperature Monitoring: Fixed speed T3 rated and 160°C thermistors, along with 120°C thermistors for T4, ensure effective temperature control, preventing overheating and promoting stable and secure operation.

Flexible Operation and Usage: Whether it's direct-on-line (DOL) starting, duty S1 continuous rated, or VVVF inverter duty (subject to overspeed limitations), the Electric Flameproof EBK rotary vibrator offers versatile operating options for seamless integration into your specific application needs.

High-Level Insulation: The Class F insulation with class B temperature rise in a 40°C ambient environment guarantees excellent safety and reliability, minimizing the risk of electrical failures and ensuring long-term performance.

Extended Temperature Range: The availability of the EBKH range for temperatures up to 55°C provides a solution for applications requiring higher temperature tolerance, enabling reliable operation in demanding industrial settings.

Convenient Installation and Maintenance: The integral cast top-mounted terminal box facilitates easy installation and maintenance, ensuring streamlined wiring and hassle-free access for service and

repairs.

Aesthetically Pleasing Design: The standard paint finish with Hammertone Silver color adds a visually pleasing touch to the rotary vibrator, making it not only functional but also visually appealing in your industrial setup.

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