

SLEx IE3 FLAMEPROOF CAST IRON PREMIUM EFFICIENCY MOTOR

ENGINEERED FOR MINING AND GENERAL
HAZARDOUS AREA, OIL & GAS.

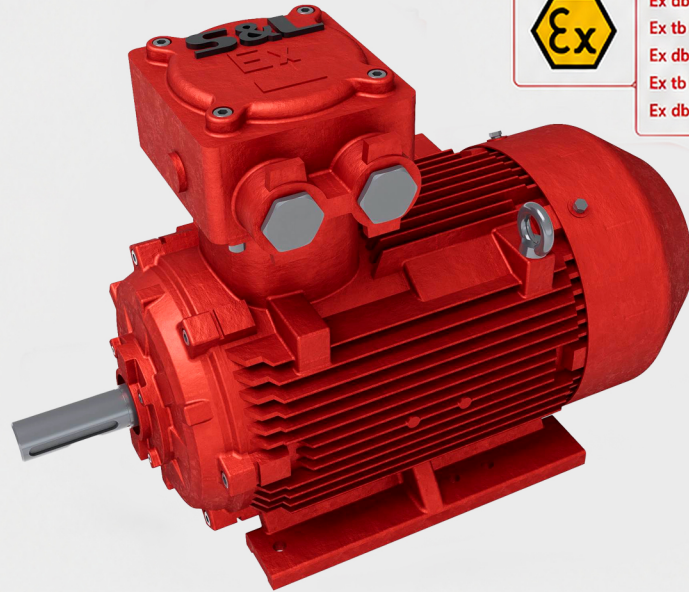


SLEx FLAME-PROOF IE3 MOTOR FEATURES

- ✓ 5 Year warranty (Excluding Bearing Failures)
- ✓ Full cast iron construction for durability & reliability
- ✓ Foot & Flange mounting options available on request
- ✓ Thermistors in windings as standard
- ✓ Lamination steel: High quality silicon steel is used on all motors (400°C)
- ✓ All motors are fully vacuum pressure impregnated (VPI)
- ✓ VSD (variable speed drive) compatible insulation system
- ✓ High Quality SKF bearings
- ✓ Suitable for operation in both surface and underground environments.
- ✓ S&L Final Colour – RED (RAL 3020)

FEATURES & BENEFITS

- FLAMEPROOF SAFETY**
Certified Ex db enclosure prevents the propagation of internal explosions, ensuring a safe operating environment in hazardous areas.
- PREMIUM EFFICIENCY (IE3)**
Higher efficiency means lower energy consumption and reduced operating costs.
- THERMAL PERFORMANCE**
H Class insulation (180°C) with Class B temperature rise for superior thermal endurance and extended motor life.
- IP66 PROTECTION**
Totally enclosed, dust tight and protected against powerful water jets for reliable performance in the harshest conditions.
- SKF PREMIUM BEARINGS**
Longer bearing life, reduced maintenance and enhanced motor reliability.
- RUGGED & RELIABLE**
Built for extreme mining conditions above and underground. Designed for non-stop performance and long service life.



CERTIFIED FOR HAZARDOUS LOCATIONS



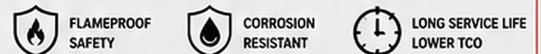
Ex db IIB T3...T4 Gb;
Ex tb IIIC T130°C...T195°C Db
Ex db IIC T3...T4 Gb;
Ex tb IIIC T130°C...T195°C Db
Ex db I Mb

IE3 PREMIUM EFFICIENCY	H CLASS INSULATION (180°C)	B CLASS TEMP RISE	IP66 PROTECTION	SKF PREMIUM BEARINGS	MEPS VC9133 IEC 60034-1	 SANS 60079 CERTIFIED
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ENGINEERED FOR MINING AND GENERAL HAZARDOUS AREA, OIL & GAS.



Engineered for safe and reliable performance in upstream, midstream and downstream oil & gas applications, including offshore platforms, refineries, petrochemical plants and processing facilities.



TECHNICAL SPECIFICATIONS

Construction	SLEx Range – Cast iron totally enclosed fan-cooled (TEFC)
Application	Ex db IIB T3...T4 Gb; Ex tb IIIC T130°C...T195°C Db Ex db IIC T3...T4 Gb; Ex tb IIIC T130°C...T195°C Db Ex db I Mb
Power supply	Three-Phase 400V / 525V / 550V / 575V / 690V* / 1000V* - 50Hz & 60Hz**
Speed	2, 4, 6 & 8 pole
Frame size	80 - 250
Design	IEC Standard (Non standard designs/ Mountings are available on request)
Output power	0.55 - 375kW
IP rating	IP66
Insulation	H-Class (180°C) Insulation, B-class temperature rise 400V & 525V ranges
Efficiency	IE3 Premium Efficiency Design
Bearings	High quality SKF sealed bearings
Mounting	B3 or B5
Direction of rotation	CW or CCW
Terminal box position	Top
Certification	IECEX & ATEX Certified with SANS 60079: 0/1. Exprolab IA Certified

AVAILABLE ON REQUEST:

- ⊙ High Voltage Motors 3300V*, 6600V* & 1100V*
 - ⊙ EXD Axillary Terminal boxes
 - ⊙ EXD Forced Ventilation Systems
- (*DOL Only / **On Request)



690 V OPERATION (VSD APPLICATIONS):

Motors operating at 690 V with a Variable Speed Drive (VSD) require a specialised insulation system to withstand increased voltage stresses and potential insulation breakdown.



BEARING PROTECTION (VSD DUTY):

For motors operating on VSDs, it is recommended that frame sizes 250 and above are fitted with either: Insulated end-shield, or Insulated bearings at additional cost. This is to mitigate the risk of bearing damage caused by shaft voltages and induced currents (electrical fluting).

TYPICAL MINING & GENERAL APPLICATIONS

ABOVE GROUND MINING



Designed for Zone 1 hazardous areas with explosive gas atmospheres. Perfect for process plants, crushers, conveyors, pumps and ventilation.



SAFE.
RELIABLE.
EFFICIENT.

UNDERGROUND MINING



Built tough for underground environments where safety, ventilation and reliability are mission critical.



PROTECTED.
DURABLE.
TRUSTED.

POWERING AFRICA.
DRIVING PRODUCTIVITY.
DELIVERING SAFETY.



MAXIMUM EFFICIENCY
LOWER ENERGY COSTS



SUPERIOR PROTECTION
BUILT FOR HARSH
ENVIRONMENTS



LONG SERVICE LIFE
REDUCED DOWNTIME &
MAINTENANCE



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