

# Energy savings

The IMfinity® ATEX range was designed to reach the efficiency levels defined in standard IEC 60034-30-1.

Leroy-Somer ATEX motors satisfy the IE3 Premium and IE2 high efficiency levels as standard in 2, 4 or 6 poles and frequencies of 50 or 60 Hz.

IMfinity® ATEX motors will help to reduce your energy consumption and CO2 emissions as part of an active sustainable development policy, with particularly short-term return on investment.

ENVIRONMENT	GAS			DUST			
Zone	Zone 1	Zone 2		Zone 21		Zone 22	
Designation	FLSD	FLSN	LSN	FLSPX	LSPX	FLSES	LSES
Efficiency level	IE3	IE2 & IE3	IE2 & IE3	IE2 & IE3	IE2 & IE3	IE2 & IE3	IE2 & IE3

## All the benefits of an optimised range

	Reliability	Availability	Efficiency	Selection	Installation
<b>Construction and design</b>					
Optimised magnetic circuit	✓		✓		
Air gap optimisation	✓		✓		
Low-loss steel lamination			✓		
Enhanced slot filling			✓		
Streamlined component use		✓		✓	✓
Robust mechanical parts	✓				✓
High quality components	✓				
<b>Characteristics</b>					
Reduced starting current	✓		✓		✓
IE2 and IE3 efficiency levels			✓		
<b>Variable-speed use</b>					
Fully characterised	✓	✓	✓	✓	

### Motor and drive technology

Our advanced drives and motors technology and automation solutions are designed by focusing on maximizing energy savings across a wide range of industries, enhancing performance and optimizing productivity.

New regulations define the minimum efficiency level of the motor but more and more variable speed systems made from motor and drive solutions are considered as the most effective combination to generate the highest energy savings.

Our "Type Examination Certificates" issue by the notified body include provisions which are compatible with variable-speed use.

### Variable-speed options

- PTC thermal protection sensors fitted in the winding as standard
- Other types of thermal protection devices and sensors in windings or endshields
- ATEX forced ventilation for some applications
- ATEX-certified incremental or absolute encoder
- Insulated bearings
- Reinforced insulation of winding
- 2<sup>nd</sup> nameplate showing electrical data for variable-speed operation

