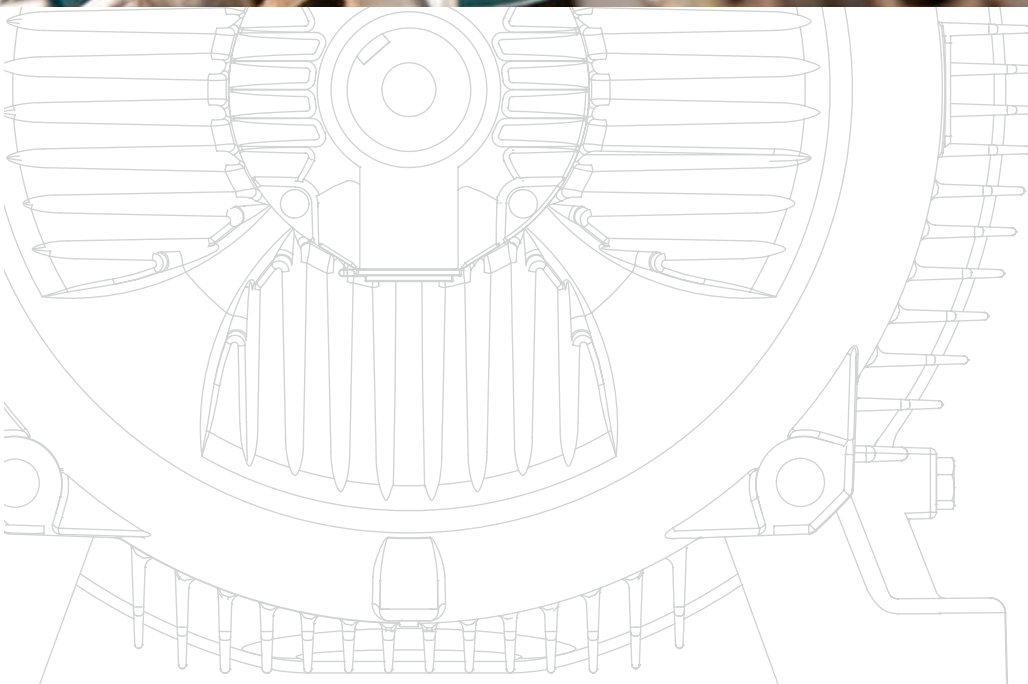


# Motors

LV Product Lines  
Australia - New Zealand



## W21 - Cast Iron Frame



Three phase asynchronous motor, with lower acquisition cost and high technology. Easy to adapt to the most application types, allowing to your company agility during installation, easy operation and low maintenance cost. The project is according to IEC34 standards, which guarantees higher energy savings. The following types of W21 motors are available: Premium Efficiency (E2) and High Efficiency (E3) and suitable for the use with Frequency Inverters.

### Motor Features

- Output: 0,12 up to 330kW
- Poles: II, IV, VI and VIII
- Frame: 63 up to 355 M/L
- Three-phase multivoltage, IP55, TEFC, 50Hz

### Applications

Pumps, fans, crusher, conveyors, machine tools, milling machines, centrifugal machines, presses, elevators, looms, grinders, woodworking, cooling, packaging equipment, other severe duty application.



Features	Benefits
WISE Insulation System	Increase the electrical strength of the stator, allowing the motor to operate with frequency inverters, without damaging by the voltage peaks*.
Efficiency	Premium Efficiency (E2) and High Efficiency (E3) motors, guarantee a fast return of investment.
Painting Plan for Industrial Environments	Suitable for the use in slightly severe and sheltered environments, with low average humidity, regular temperature variations.
Cast Iron Frames	More strength for your application
State-of-the-art Ventilation System	Uniform refrigeration of the motor with significant temperature reduction in the external surface and bearings, guarantee high performance and energy saving to your application.
Customization	Product suitable to meet the most demanded applications in the industry.

\* Notes:

Motor rated Voltage	Insulation System	Technical criteria for use of motors fed by inverters			
		Voltage peak in the motor (Maximum)	dV/dt Inverter outlet (Maximum)	Rise Time(*) Of Inverter (minimum)	MTBP(*) Time between pulses (minimum)
$V_{NOM} \leq 460V$	Standard Insulation	$\leq 1430V$	$\leq 5200 V/\mu s$	$\geq 0,1 \mu s$	$\geq 6 \mu s$
$460V < V_{NOM} \leq 575V$	Reinforced Insulation	$\leq 1780V$	$\leq 6500 V/\mu s$		

## W21 - Aluminium Frame

WEG Aluminum frame motors with removable base were specially designed to meet market requirements in reference to mounting flexibility once they allow all mounting positions. The foot mounting system offers great flexibility and it quite simply allows changing on the mounting configuration without requiring any machining or modification on the motor feet. Motor terminal box can be rotated at 90 degrees allowing motor leads to be connected on any motor side. Besides that, these motors are fully interchangeable with existing cast iron frame motors. Stock flexibility due to the fact that just one motor is required with mounting possibility on all positions. Aluminum version of W21 line.

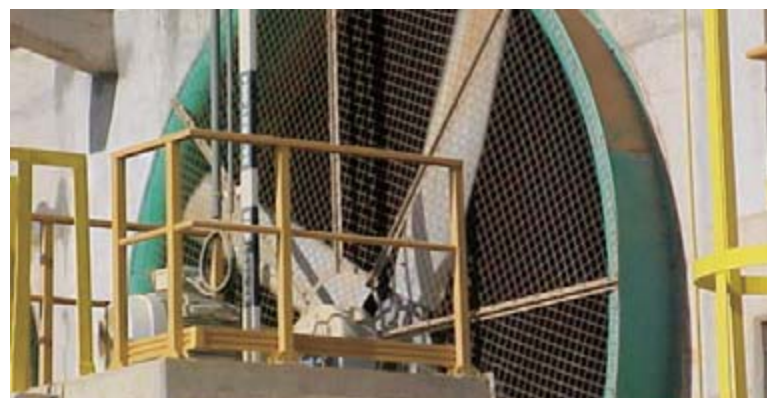


### VFD Features

- Output: 0,12 up to 11kW
- Poles: II, IV, VI and VIII
- Frames: 63 up to 132 M
- Three-phase multivoltage, IP55, TEFC, 50Hz

### Applications

Pumps, Air Conditioning Systems, fans, cranes, compressors, conveyor belts, machine tools, winding machines, drawing machines, centrifugals, presses, hoists, overhead cranes, elevators, looms, grinders, woodworking, injectors, extruders, roller tables, cooling towers, packaging machines, etc.



Features	Benefits
Multimounting	Flexible and easy to change mounting configurations without the necessity of machining operations or additional changes to the motor feet.
Aluminum Frame	Better thermal dissipation
WISE Insulation system	Increase the electrical strength of the stator, allowing the motor to operate with frequency inverters, without damaging by the voltage peaks*.
Efficiency	Premium Efficiency (E2) and High Efficiency (E3) motors, guarantee a fast return of investment.
Painting Plan for Industrial Environments	Suitable for the use in slightly severe and sheltered environments, with low average humidity, regular temperature variations.
State-of-the-art Ventilation System	Uniform refrigeration of the motor with significant temperature reduction in the external surface and bearings, guarantee high performance and energy saving to your application.
Customization	Product suitable to meet the most demanded applications in the industry.

\* Notes:

Motor rated Voltage	Insulation System	Technical criteria for use of motors fed by inverters			
		Voltage peak in the motor (Maximum)	dV/dt Inverter outlet (Maximum)	Rise Time(*) Of Inverter (minimum)	MTBP(*) Time between pulses (minimum)
$V_{NOM} \leq 460V$	Standard Insulation	$\leq 1430V$	$\leq 5200 V/\mu s$	$\geq 0,1 \mu s$	$\geq 6 \mu s$
$460V < V_{NOM} \leq 575V$	Reinforced Insulation	$\leq 1780V$	$\leq 6500 V/\mu s$		

## Brake Motor



In order to have a company working with high performance it is necessary to have equipments working according to its needs.

WEG brake motor is perfect to equipments where fast safety stops are required, positioning and time saving. WEG braking solutions allows synergy in the production process, helping with agility and safety. WEG brake motors are available in versions: Premium Efficiency (E2) and High Efficiency (E3) and they are suitable for the use with frequency inverters\*.

### Motor Features

- Output: 0,12 up to 37kW
- Poles: II, IV, VI and VIII
- Frame: 63 up to 200L
- Three-phase multivoltage, IP55, TEFC, 50Hz
- Cast Iron Frame or Aluminum Frame

### Applications

These motors can be used on any machine that requires quick stops and time savings during installation: Machine tools, looms, packing machines, gates, wood machines, cranes, other severe duty applications.



Features	Benefits
High performance braking system	Guarantee precision braking, fast and safe with easy maintenance.
Manual brake release	Possibility to keep the motor free during emergency situations or whenever necessary.
WISE Insulation System	Increase the electrical strength of the stator, allowing the motor to operate with frequency inverters, without damaging by the voltage peaks*.
Efficiency	Premium Efficiency (E2) and High Efficiency (E3) motors, guarantee a fast return of investment.
Painting Plan for Industrial Environments	Suitable for the use in slightly severe and sheltered environments, with low average humidity, regular temperature variations.
State-of-the-art Ventilation System	Uniform refrigeration of the motor with significant temperature reduction in the external surface and bearings, guarantee high performance and economy to your application.
Customization	Product suitable to meet the most demanded applications in the industry.

\* Notes:

Motor rated Voltage	Insulation System	Technical criteria for use of motors fed by inverters			
		Voltage peak in the motor (Maximum)	dV/dt Inverter outlet (Maximum)	Rise Time(*) Of Inverter (minimum)	MTBP(*) Time between pulses (minimum)
$V_{NOM} \leq 460V$	Standard Insulation	$\leq 1430V$	$\leq 5200 V/\mu s$	$\geq 0,1 \mu s$	$\geq 6 \mu s$
$460V < V_{NOM} \leq 575V$	Reinforced Insulation	$\leq 1780V$	$\leq 6500 V/\mu s$		

## WMining

One of the most important concerns of the Mining industry is to reduce operational costs and increase the quality of the products. Thinking about that, WEG developed the Mining Motor with optimized performance, developed to operate in severe environment and to last. The project differentiated electromechanical characteristics that guarantee durability, resistance and robustness in all of the stages of the process from the extraction of the material, transport and processing. Benefits that only WEG could offer through the high technology of products and knowledge. The Mining Motors are able to operate with VFD drive.

### Motor Features

- Output: 0.12 up to 330
- Poles: II,IV,VI, VIII.
- Frames: 63 to 355 M/L
- Painting: 203A Munsell 2.5YR 6/14

### Applications

Fans, Crushers, Conveyors, Cranes, Mills and Pumps.



Features	Benefits
Fan cover and cast iron fans	Durability. More resistant against high impacts common in the mining industry .
Additional TBox	More space and security for electrical connection.
Frame 63 up to 132 Oil Seal Frame 160 up to 355 Labyrinth Seal	Protect the motor against dust entrance.
Anticorrosive internal painting	Avoid internal corrosion.
High Efficiency	Energy saving.
Exclusive WISE Insulation System	Increase the electrical strength of the stator, allowing the motor to operate with frequency inverters, without damaging by the voltage peaks.
Painting plan for severe application	More resistance into corrosive environmental.
Customization	Product suitable to meet the most demanded applications in the industry.



## Ex d Flame Proof



The installation of electric motors where flammable products are continuously handled, processed or storage, must comply with the most demanded safety standards in order to guarantee protection of life, machines and environment. Following to the highest safety standards WEG explosion proof motors are made of robust construction, modern system of flame retention with joint parts carefully designed, precision machining in the T-box eliminating imperfections in the joint parts and fixation with high mechanical strength bolts.

### Motor Features

- Output: 0,37 up to 315kW
- Poles: II, IV, VI, VIII and two speed
- Frame: 90S/L up to 355 M/L
- Three-phase multivoltage, IP55, TEFC, 50Hz

### Applications

Pumps, Fans, Crushers, Conveyors, Machine tools, Milling machines, Centrifugal machines, Presses, Elevators, Looms, Grinders, Woodworking, Cooling, Packaging equipment, Other Severe Duty applications.



Feature	Benefits
Modern flame retention system with robust frame, end shields and T-box.	Avoid flame propagation from inside the motor to the external side, guaranteeing safety protection to the life, machines and environment.
Certification for the use with frequency inverters – T4	Guarantee in speed variation applications and hazardous areas such as Zone 1 and Zone 2, according to CESI certification.
Additional nameplate for the use with frequency inverters.	Easy identification of the conditions of operation temperature (speed and torque range)
Efficiency	Premium Efficiency (E2) motors, guarantee a fast return of investment.
Painting Plan for Severe Environments	Special for industrial severe environments, sheltered or not, which may contain SO <sub>2</sub> , steam, solid contaminants and high humidity.
Customization	Product suitable to meet the most demanded applications in the industry.

\* Notes:

Motor rated Voltage	Insulation System	Technical criteria for the use of motors fed by inverters			
		Voltage peak in the motor (Maximum)	dV/dt Inverter outlet (Maximum)	Rise Time(*) Of Inverter (minimum)	MTBP(*) Time between pulses (minimum)
$V_{NOM} \leq 460V$	Standard Insulation	$\leq 1430V$	$\leq 5200 V/\mu s$	$\geq 0,1 \mu s$	$\geq 6 \mu s$
$460V < V_{NOM} \leq 575V$	Reinforced Insulation	$\leq 1780V$	$\leq 6500 V/\mu s$		

Classification: IEC Standard GENELEC Standard  
Zone 1; Group IIB Group IIB; Category 2

The classification in Zone 1 means that the motor is suitable to operate also in Zone 2 once Zone 1 represents an operating condition worse than Zone 2. The same applies to Groups and Categories: Ex d motor are suitable to operate also in Group IIA and Category 3.

## Ex nA Non Sparking

The installation of electric motors where a flammable mixture is not frequently present but may represent risks, must comply to the most demanded safety standards for the protection of life, machines and environment.

Following to the highest safety standards WEG Ex nA motors are flexible to adapt to various applications allowing to your company agility during installation, easy operation, low maintenance cost and safety. WEG Ex nA motors are available in versions: Premium Efficiency (E2) and High Efficiency (E3) and suitable for the use with Frequency Inverters.

### Motor Features

- Output: 0.12 up to 315kW
- Poles: II, IV, VI and VIII
- Frames: 63 up to 355 M/L
- Three-phase multivoltage, IP55, TEFC, 50Hz

### Applications

Pumps, Fans, Milling Applications, Centrifugal Machines, Presses, Elevators, Machine tools, Woodworking, Grinders, Looms, Cooling, Packaging machines, Conveyors, Wash and bottling machines.



Features	Benefits
Reduced motor external surface temperature	Do not allow conductive dust ignition in contact with the motor or during suspension in the air.
Certification for the use with frequency inverters	Guarantee in speed variation applications and hazardous areas such Zone 2, according to certification.
Efficiency	Premium Efficiency (E2) and High Efficiency (E3) motors, guarantee a fast return of investment.
WISE Insulation System	Increase the electrical strength of the stator, allowing the motor to operate with frequency inverters, without damaging by the voltage peaks.
Painting Plan for Severe Environments	Special for industrial severe environments, sheltered or not, which may contain SO <sub>2</sub> , steam, solid contaminants and high humidity.
Flexibility	Product suitable to meet the most demanded applications in the industry.

**Notes:**

*Classification: WEG Ex nA motor line, which was up to now designed to operate at areas classified as Zone 2 (combustible gas), are now suitable to operate also at Zone 22 containing non-conductive combustible dusts. Based on a careful design carried out in conformance with pre-established requirements of applicable European Standards and Directives these motors offer you the reliability and safety that you need.*

*IEC Standard:*

*Zone 2 (gas) and 22 (non-conductive dust): Group IIC*

*The classification in Group IIC means that the motor is suitable to operate also in Groups IIA and IIB once Group IIC represents an operating condition worse than Groups IIA and IIB.*

*Certification: WEG non sparking motors meet ATEX Directive 94/4EC certified by PTB - Physikalisch-Technische Bundesanstalt as per EN50014 / EN50021 and are now BASEEFA Certified.*

*CENELEC Standard:*

*Group IIC; Category 3G (gas) and 3D (non-conductive dust)*

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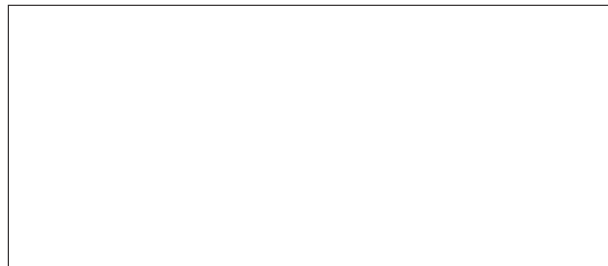
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