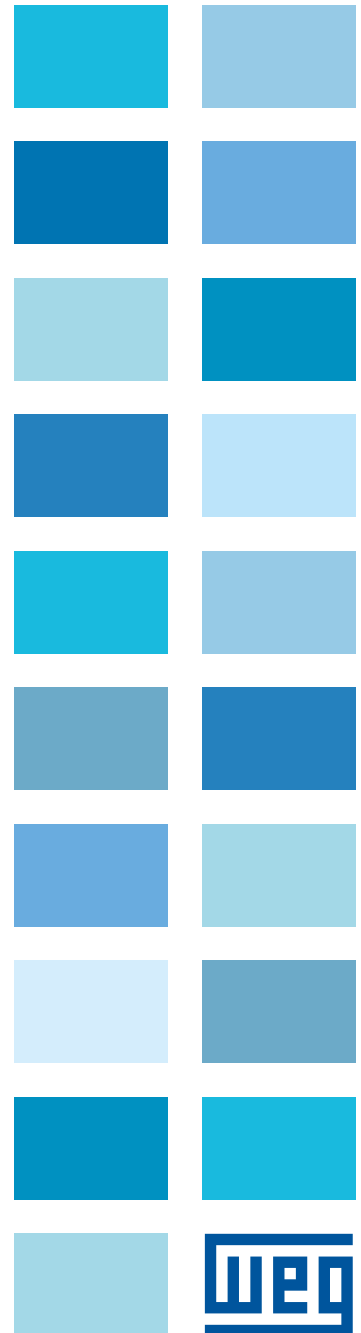
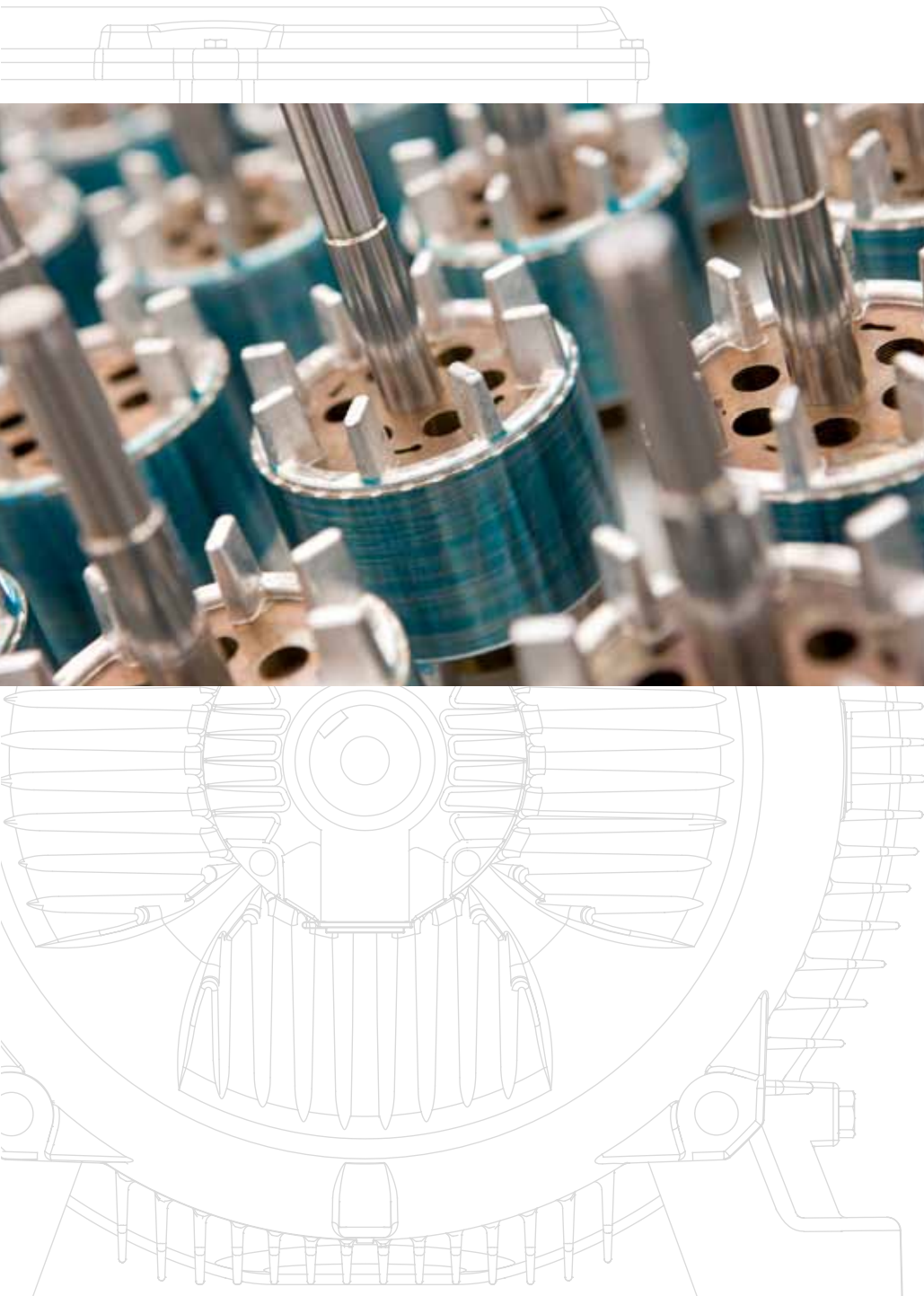


Motors

LV Product Lines Asian Market



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: Standard Efficiency (EFF2), Premium Efficiency (EFF1) and Top Premium Efficiency (Exceeds EFF1) 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 and 60Hz
- Cast Iron 40°C and 50°C
- Totally Enclosed Blower Cooled (TEFC)

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 (EFF1) and Top Premium Efficiency (Exceeds EFF1) 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 F(F)			
		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 - Cast Iron Frame Inverter Duty



WEG TEBC Cast Iron motors were designed to meet several applications where wide speed range variation is required. The windings are enameled with class H varnish and exclusive patented WISE insulation, which allows 3 times longer motor. The independent fan system offers low noise level and maximum cooling at low speeds. As additional feature, the WEG TEBC motor can be supplied with Dynapar 1024 ppm encoder which allows perfect motor speed control for critical applications.

Motor Features

- Output – 0.12 up to 330kW
- Poles – II,IV,VI, and VIII
- Frame - 63 to 355 M/L
- Three-phase, IP55, TEFC, 50Hz and 60Hz
- Totally Enclosed Blower Cooled (TEFC)
- Reinforced insulation

Applications

Grinders, conveyors, mixers, fans, pumps, extruders, winding, recoilers.



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 (EFF1) and Top Premium Efficiency (Exceeds EFF1) motors, guarantee a fast return of investment
Independent Ventilation System	Low noise level by means of efficient cooling provided by a separate motor having maximum cooling flux over main motor, even at low speed operation
Efficiency	Premium Efficiency (EFF1) and Top Premium Efficiency (Exceeds EFF1) 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
Customization	Product suitable to meet the most demanded applications in the industry.

* Notes:

Motor rated Voltage	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)
$V_{NOM} \leq 460V$	$\leq 1430V$	$\leq 5200 V/\mu s$	$\geq 0,1 \mu s$	$\geq 6 \mu s$
$460V < V_{NOM} \leq 575V$	$\leq 1780V$	$\leq 6500 V/\mu s$		
$575V < V_{NOM} \leq 690 V$	$\leq 2140 V$	$\leq 7800 V/\mu s$		

W21- Aluminum Frame

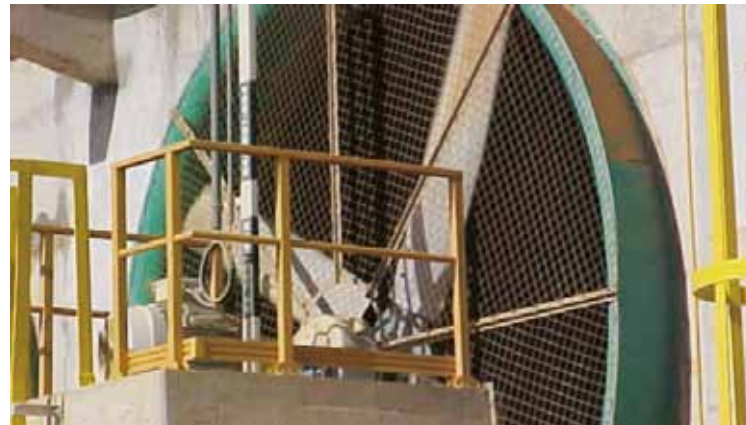
WEG Aluminum frame motors with removable base were specially designed to meet market requirements in reference to mounting flexibility once they allow all mounting positions. The foot mounting system offers great flexibility and it quite simply allows changing on the mounting configuration without requiring 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, 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 (EFF1) and Top Premium Efficiency (Exceeds EFF1) 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: Standard Efficiency (EFF2), Premium Efficiency (EFF1) and Top Premium Efficiency (Exceeds EFF1) 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, IP55, TEFC, 50Hz and 60 Hz
- 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 (EFF1) and Top Premium Efficiency (Exceeds EFF1) 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 F(F)			
		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	$\leq 1780V$	$\leq 6500 V/\mu s$		

Ex d - Explosion Proof

Ex de - Explosion Proof with increased safety terminal box

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, IP55, TEFC, 50Hz and 60 Hz

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 (EFF1) motors, guarantee a fast return of investment.
Painting Plan for Severe Environments	Special for industrial severe environments, sheltered or not, which may contain SO ₂ , 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
Zone 1; Group IIB

CENELEC Standard
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 and Ex de motors are suitable to operate also in Group IIA and Category 3.

Certification: In Europe, WEG explosion proof motors meet ATEX Directive 94/9/EC certified by PTB and product certified by CESI – Centro Elettrotecnico Sperimentale Italiano S.P.A. The CESI certificates of conformity for explosion proof in flameproof enclosure “d” and “de” as per EN50014 / EN50018 are:

Ex d – Explosion proof motors (class of temperature T4)

Ex de – Explosion proof motors with increased safety terminal box (class of temperature T4)

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: Standard Efficiency (EFF2), Premium Efficiency (EFF1) and Top Premium Efficiency (Exceeds EFF1) 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, IP55, TEFC, 50Hz and 60 Hz.

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 (EFF1) and Top Premium Efficiency (Exceeds EFF1) 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 ₂ , 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

CENELEC Standard:

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

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.

Smoke Extraction

Assure safety where a large concentration of people in commercial and industrial facilities is present is one of the main concerns of designers and company owners during the project of shopping centers, factories, warehouses, covered parking lots, tunnels and other places which concentrate a large number of people. The Smoke motors are certified* for high temperatures and guarantee a rapid smoke and heat extraction and delay in fire propagation, allowing free access to the emergency exits.

Applications

Large buildings, shopping malls, factories, warehouses, enclosed parking lots, other ventilation systems.



	F200	F300	F400
Duty	S1 - 40°C	S1 - 40°C	S1 - 40°C
	S2* - 200°C - 2 hours	S2* - 300°C - 1 hour	S2* - 400°C - 2 hours
Certification	Self Declaration	BSRIA - U.K. Frames: 80 to 250 Also available certification for 300° C/2 hours	BSRIA - U.K. Frames: 80 to 180 Outputs: 0.75kW - 27kW
			CTICM - France Frames: 90 to 280 Pole: IV, VI, VIII, VI/IV, VIII/IV, VIII/VI poles
Insulation Class	Ins. Class F; Temp. Rise 80K	Ins. Class H; Temp. Rise 80K or 105K	
Standard	EN 12101-3		
Pole / Frame sizes available	II, IV/II pole (frame sizes 80 up to 315S/M)		
	IV, VI, VIII, VIII/IV, VI/IV pole (frame sizes 80 up to 355M/L)		
Construction	TEFC or TEAO (foot or flange mounted / pad mounted for frame sizes 80 up to 250)		

* Continuously rated for normal ambient and emergency duty at rated temperature and time.

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.
Painting Plan for Industrial Environments	Suitable for the use in slightly severe and sheltered environments, with low average humidity, regular temperature variations.
Cast Iron Frame	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.

W21 - Nema



WEG'S W21 NEMA motors meet or exceed all NEMA and CEE requirements for energy efficiency. These TEFC motors are built according to NEMA specifications and designed for operation in moist or dusty atmospheric conditions without affecting their useful life. Premium Efficiency WEG motors are tested according to IEEE 112std., method 'B' and their efficiency values are certified by UL Labs (CSA C390) and NEMA Design 'B' and maintain exceedingly high breakdown and locktor torque while providing the highest rated efficiency levels.

Motor Features

- Output – 1 up to 500kW
- Poles: II, IV, VI, VIII and two speed
- Frame: 143T up to 586/7
- Painting – Synthetic enamel alkyd resin base

Applications

Chemical plants, compressors, pulp and paper mills, crushers, refineries, pumps, steel mills, fans, cement mills, packaging equipment.



Features	Benefits
V-ring Seals	To provide the best possible protection in dusty and high moisture environments.
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.

ODP - Nema

Weg motors meet or exceed all NEMA and CEE Requirements for energy efficiency. These Open Drip Proof (ODP) motors are designed for environments where dirt and moisture are minimal. Design B torque and high efficiency design from 143T through 444/5 frames. These motors are specifically designed to provide maximum ventilation and heat dissipation. 'C' and 'D' flange available.

Motor Features

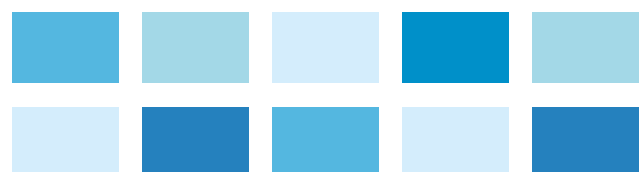
- Output – 0,75 up to 220kW
- Poles: II, and IV
- Frame: E143/5T up to 444/5TS
- Painting – Synthetic enamel alkyd resin base - RAL 6002

Applications

Pumps, fans, kneader and mixer machines, cutter and sawing machines, pressing machines, industrial equipments, conveyors, blowers, compressors, machinery, cranes, packaging equipment



Features	Benefits
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.



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