

**LOW VOLTAGE
HAZARDOUS AREA MOTORS**



*Transforming energy
into solution*

ELECTRONIC CATALOG

The WEG Electronic Catalogue available on CD ROM is the world's leading motor selection program. Designed with today's engineer in mind, this excellent, easy to use tool provides the user with the facility to select and generate motor data sheets, performance curves and dimensional drawings.

Some 35000 motor variations, covering all world markets as well as most of WEG's wide range can be accessed from the CD ROM catalogue.

Additionally, the electrical and mechanical application programs allow the user to calculate run-up times, bearing lifetime and motor selection suitability.

The WEG group's corporate information is also available from the catalogue as well as the details and addresses of all WEG's worldwide Branch offices, Representatives and Service Network.

The electronic catalogue can be downloaded from our website at <http://www.weg.com.br> or the CD ROM can be obtained from any one of our Branches or Representatives.



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1 EXPLOSIVE ATMOSPHERE

An atmosphere is considered as explosive when the amount of gas, vapor, dust or fibers is such that a spark originated from an electric circuit or an overheating from an equipment may cause an explosion.

In reference to surrounding equipment, preventive constructive measures are taken so as to avoid that the area around them is flamed.

2 EUROPEAN STANDARDS FOR EXPLOSIVE ATMOSPHERE DESIGNED MOTORS

In Europe, all motors designed for explosive atmospheres must meet IEC and CENELEC Standards and ATEX Directive 94/9/EC, which will be mandatory from July 2003 onwards.

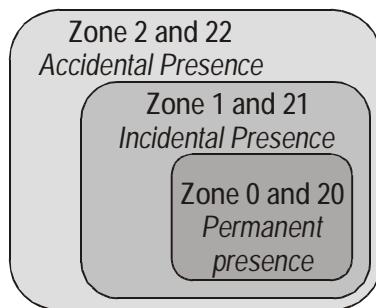
2.1 IEC STANDARDS

The IEC Standard classifies the risk areas into zones and groups:

- The zones are classified according to frequency and period of time that the explosive atmosphere is present.
- The division into groups is based on the aggressiveness of the environment.

Zone classification:

| | | |
|-------------------|---------|--|
| Gases and Vapours | Zone 0 | Environment where the explosive atmosphere is present continuously or for long periods of time. |
| | Zone 1 | Environment where the probability of existing an explosive atmosphere is associated with normal operation of the equipment. |
| | Zone 2 | Environment where an explosive atmosphere will probably not be present under normal operating conditions and, if any, this will be for short period of time. |
| Dusts | Zone 20 | Environment where flammable dust is present continuously or frequently under normal operating conditions in enough amount to generate an explosive concentration of mixed dust with air and/or areas where may occur excessive amount of dust with no further control. |
| | Zone 21 | Area that is not classified as Zone 20. However, where flammable dusts may occur under normal operating conditions in enough amount to generate an explosive concentration of dust mixed with the air. |
| | Zone 22 | Areas that are not classified as Zone 21. However, where flammable dust may occur frequently and is present for short periods of time, or where the amount of dust may occur just under abnormal operating conditions causing an explosive mixture. |



Group classification:

| | | | | |
|----------------------------|-----------------------------|--|-----|--|
| G R O U P S | Mines | Equipment manufactured for under ground operation mines | I | Methane may be present (gris u) |
| | Other Explosive Atmospheres | Equipment manufactured for other types industry (surface industry), being subdivided based on the characteristics of the materials present | IIA | acetone, ammonia, benzene, butane, butanol, alcohol butylic, ethane, ethanol, acetate of ethyl, gasoline, heptanes, hexanes, natural gas, methanol, naphtha, propane, propanol, toluene, esthrene, solvents in general |
| | | | IIB | acetaldehyde, cyclopropane, diethyl ether, ethene, monoxide of carbon |
| | | | IIC | acetylene, butadiene, oxide of ethene, hydrogen, oxide of propylene, gases containing over 30% of hydrogen |

2.2 CENELEC STANDARDS

CENELEC Standard provides criteria to determine the classification of the equipment into groups and categories:

Group classification:

| GROUP I (Mines) | |
|-----------------|---|
| Categories | |
| M1 | Equipment designed to operate on environments where the explosive atmosphere is present frequently |
| M2 | Equipment that must be powered off if there is any risk of explosion. Explosive atmosphere is present frequently. |

Category classification:

| GROUP II* (Surface Industry) | | Zone |
|------------------------------|--|-----------------------|
| Categories | | Zone |
| 1 | Equipment with high level of protection. Explosive atmosphere is present continuously or for long periods of time | 1G (gas) 1D (dust) |
| 2 | Equipment with high level of protection. Explosive atmosphere may occur occasionally. | 2G (gas) 2D (dust) |
| 3 | Equipment with normal level of protection. The explosive atmosphere will probably not occur. | 3G (gas) 3D (dust) |

* Gases are subdivided into IIA, IIB and IIC, as per IEC Standards.

2.3 ATEX DIRECTIVE 94/9/EC

Valid since March of 1996, this European Directive will be mandatory from July 2003. It provides a classification for motors into areas containing explosive atmospheres. More than product specification, the present Directive gives special attention to the production process including design, production itself and sale.

The certification for the system is provided together with the product certification. ATEX Directive 94/9/EC also classifies the equipment to operate on explosive atmospheres into groups and categories following the same classification bases used by CENELEC.

3 CLASSES OF TEMPERATURE

The minimum temperature causing an explosion of a gas, vapour of explosive mixture is called ignition temperature. To avoid any risk of explosion, motor surface temperature must always stay below the ignition temperature of the explosive mixture.

The internal and external temperature of the electrical equipment must be strictly followed to avoid ignition of an explosive mixture. So the equipment is classified into classes of temperature, as per table below:

| Class of Temperature (°C) | Maximum motor surface temperature (°C) | Ignition temperature of the explosive mixture (°C) |
|------------------------------|--|--|
| IEC / CENELEC | | |
| T1 | 450 | >450 |
| T2 | 300 | >300 |
| T3 | 200 | >200 |
| T4 | 135 | >135 |
| T5 | 100 | >100 |
| T6 | 85 | >85 |



4 PROTECTION CATEGORIES FOR ELECTRIC MOTORS

4.1 TYPE EEx d – EXPLOSION PROOF

It is a type of protection where the parts that may flame an explosive atmosphere are closed into enclosures which are capable to withstand a pressure during an internal explosion of an explosive mixture and it avoids such explosion to go out from this enclosure to an external explosive atmosphere.

An induction electric motor (of any protection) is not totally sealed, that is, air goes in and out. While in operation, it becomes heated up and the internal air gets to a higher pressure compared to the external pressure (air is blown out): when motor is switched - off, the internal pressure decreases, allowing in this way entrance of air (which in this case is contaminated).

The motor surfaces do not need to be totally enclosed to avoid flame propagation. The minimum opening required to avoid passage of flames depends on the gas or vapour that is present.

Therefore, there will always be flame passages on the motor. The safety level on an explosion proof motor is on the fact that it must ensure that all flame passages never exceed the standardized dimensions that the motor is physically suitable to withstand an internal explosion without transmitting to the external environment.

EEx d protection will not allow that an internal explosion propagates to the external environment. To ensure safety to the system, WEG provides a control of the openings and the finishing of joints once these are responsible for the volume of gases exchanged between inside and outside of the motor.

The main characteristics of EEx d motors are as follows:

- Reinforced frame, terminal box and endbells
- Greater contact surface between motor components
- Reduced clearance between motor shaft and bearing cap to avoid transmission of sparks and the external environment
- Water pressure test on all components (frames, endbells, terminalbox, terminal box covers)

Application:

Environments containing flammable gases or vapour continuously, intermittently or periodically in enough amount to generate explosive or flammable mixtures arising out of repairs or maintenance services.

The most common locations of Zone 1 and 2, group IIA and IIB are those where the following gases are found present: oil, naphtha, benzene, ammonia, propane, diethylic ether, acetone, alcohol, industrial methane, natural gas.

The main applications include fans, blowers, crushers, conveyor systems, mills, cranes and other applications located in areas that require explosion proof motors.

4.2 TYPE EEx de – EXPLOSION PROOF WITH INCREASED SAFETY TERMINAL BOX

EEx de motors differ from EEx d motors only on the configuration of terminals and terminal box. The terminal box with increased safety terminal block prevents from any ignition source that may occur such as sparks, excessive heating, etc.

The main characteristics of EEx de motors are:

- Terminal box components as well as connection cables must be firmly fastened (without allowing any movement)
- Special terminal block to avoid arcs and sparks and standardized distance between terminals (increased safety terminal block)
- Double grounding must be provided (one on the foot and the other on terminal box covers)

Application:

Same as described for EEx d motors.

4.3 TYPE EEx e – INCREASED SAFETY

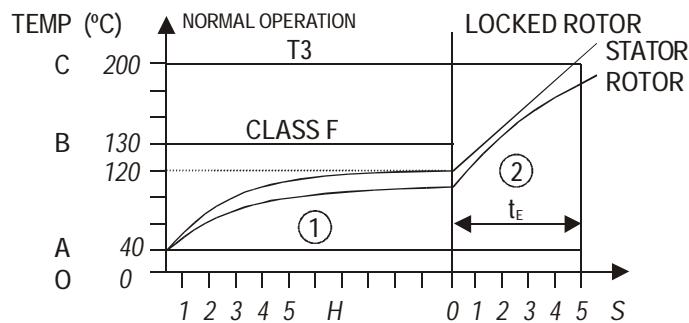
This is an electric equipment which under normal operating conditions will not cause arcs, sparks or overheating enough to cause ignition of an explosive atmosphere which it has been designed to. These motors are similar to standard motors. However, they are fitted with special features as follows:

- Temperature rise 10K below the maximum temperature allowed for the insulation class
- Commitment with "time t_E " (maximum time for switching off through protection device)
- Terminal box components as well as connection cables must be firmly fastened (without allowing any movement)
- External grounding on the frame is mandatory
- Frame grounding must be connected with terminal box grounding
- Drip cover must be applied on vertical applications
- Reduced output x frame ratio
- Special care when manufacturing the winding along with applying double impregnation layer
- Special terminal block to avoid arcs and sparks and standardized distance between terminals (increased safety terminal block)
- Drain holes on endbells

4.3.1 TIME t_E

It is the time required for the motor winding, when starting current goes through it, to reach the limit temperature, starting from the achieved temperature under normal service duty and considering the ambient temperature on its maximum value.

The protection device must be designed so as to avoid any risk under all operating conditions. This protection device must operate, without fault, not only on overload cases, but also on locked rotor conditions. On this way, the value of time t_E must be such that, when rotor is locked, motor must be switched off by a protection device that depends on the current, before time t_E gets to the end.



On the chart above, the interval OA represents the maximum ambient temperature, and OB is the temperature reached under normal operating duty. In case there is any failure with further rotor locking, the condition is represented on the interval 2 of the chart. The motor temperature increases fastly up to interval OC which must be shorter than motor classification temperature T. So care must be taken to ensure motor is switched-off within time t_E .

Application:

Environments where the probability of existing an explosive atmosphere is associated with normal operation of the equipment in amount enough to cause an explosion.

The environments are classified as Zone 1 and 2, groups IIA, IIB and IIC. The most common gases included in this classification are: acetone, ammonia, benzene, butane, butanol, butyl alcohol, ethane, ethanol, acetate of ethyl, gasoline, heptanes, hexanes, natural gas, methanol, oil naphtha, propane, propanol, toluene, esthrene, solvents in general, acetaldehyde, cyclopropane, diethyl ether, ethane, monoxide of carbon, acetylene, butadiene, oxide of ethane, hydrogen, oxide of propylene and gases containing over 30% of hydrogen.

4.4 TYPE EEx n – NON SPARKING

This type of protection is applied to electric equipment which do not cause ignition of an explosive atmosphere under normal operating conditions.

The EEx n motor is built identically to a normal TEFC motor, with the following characteristics:

- Terminal box components as well as connection cables must be firmly fastened (without allowing any movement)
- Increased safety terminal block to avoid arcs and sparks, along with standardized distance between terminals

Application:

Environment where an explosive atmosphere will probably not be present under normal operating conditions and, if any, this will be for short period of time, that is, an explosive atmosphere may be present accidentally.

The environments are classified as Zone 2, groups IIA, IIB and IIC. The most common gases included in this classification are: acetone, ammonia, benzene, butane, butanol, butyl alcohol, ethane, ethanol, acetate of ethyl, gasoline, heptanes, hexanes, natural gas, methanol, oil naphtha, propane, propanol, toluene, esthrene, solvents in general, acetaldehyde, cyclopropane, diethyl ether, ethane, monoxide of carbon, acetylene, butadiene, oxide of ethane, hydrogen, oxide of propylene and gases containing over 30% of hydrogen.

5 GENERAL INFORMATION

| Type of Protection | Type EEx d | Type EEx de | Type EEx e | Type EEx n |
|--------------------|--|---|---|---|
| Designation | Explosion Proof | Explosion Proof with Increased Safety Terminal Box | Increased Safety | Non sparking |
| Objective | Keep an internal explosion not allowing to propagate to the external environment | Explosion not allowing to propagate to the external environment, with special attention to terminal box | Ensure non occurrence of arcs or sparks under normal operation or on starting | Ensure non occurrence of arcs or sparks under normal operation |
| Time t_E | Not applied | Not applied | Applied | Not applied |
| Construction | Rugged frame | Rugged frame, with special characteristics on the terminal box | Similar to standard motor, with special characteristics on the terminal box | Similar to standard motor, with special characteristics on the terminal box |
| Output/frame ratio | Standard | Standard | Reduced | Standard |
| Terminal box | Explosion Proof | Explosion proof with increased safety terminal block | Increased safety terminal block | Increased safety terminal block |

6 WEG MOTORS NAMEPLATE IDENTIFICATION

- Type EEx d – Explosion Proof

CE 0102 II 2 G EEx d II B T4 CESI 01 ATEX XXXX

- Type EEx de – Explosion Proof with Increased Safety Terminal Box

CE 0102 II 2 G EEx de II B T4 CESI 01 ATEX XXXX

- Type EEx e – Increased Safety

CE 0102 II 2 G EEx e II T1,T2,T3,T4 PTB 01 ATEX XXXX

- Type EEx nA – Non Sparking

CE II 3 G EEx nA II T3

Caption:

Identification code of the notified body

Group for the equipment

Category for the equipment

Gas

Type of protection against explosion

Group for the equipment

Gas subdivision

Class of Temperature

Certifying Entity

Year

ATEX Directive

Certificate Number

Note: For EEx nA motors, the letter A means that all motor's components are non-sparking.

STANDARD FEATURES

- Three phase, Multivoltage, 50Hz or 60Hz
- Cast iron frame: 90S/L up to 355M/L
- Output range: from 0,37 to 315kW (II, IV, VI and VIII poles)
- Class of temperature T4 (with inverter application T3)
- Class "F" insulation with ΔT 80K
- Design N
- Thermistors 150°C - 1 per phase
- Squirrel cage rotor (aluminium die cast)
- Degree of protection IP55
- Six lead terminal block (for EEx d motors)
- Increased safety terminal box (for EEx de motors)
- Lip Seal
- Hardened set screws
- Internal DE and NDE bearing cap to prevent flame propagation
- Machined metal to metal surfaces between frame and terminal box
- Earth lug inside the terminal box
- Stainless steel nameplate identifying: standards, classification, temperature code, certification number
- Epoxy based paint plan RAL 5010

ACCORDING TO ATEX DIRECTIVE - PTB

CE

OPTIONAL FEATURES

- Space heaters
- Epoxy resin impregnation
- Thermostats
- Other paint options

CLASSIFICATION

IEC Standard:
Zone 1; Group IIB

CENELEC Standard:
Group IIB; Category 2

Note: 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: EEx d and EEx 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:

EEx d - Explosion proof motors (class of temperature T4)

EEx de - Explosion proof motors with increased safety terminal box (class of temperature T4)

| Frames | Certificate number |
|---------|--------------------|
| 90-100 | CESI 01 ATEX 096 |
| 112-132 | CESI 01 ATEX 097 |
| 160-200 | CESI 01 ATEX 098 |
| 225-250 | CESI 01 ATEX 099 |
| 280-315 | CESI 01 ATEX 100 |
| 355 | CESI 01 ATEX 101 |

CESI
ITALY

PTB
GERMANY

Explosion Proof Multivoltage Motors

Explosion Proof Multivoltage Motors with Increased Safety Terminal Box

EEx d / EEx de II B T4

| | | | | | | | | | | 400V | | | | | | | | | |
|--------|----|-----------|------------|---------|-----------|-----------|----------------------------|---|-----------|--------------|-----------------------|----------------|--|--|--------------------|--|--|-----------|--|
| Output | | Frame IEC | C_n (Nm) | I/I_n | T_f/T_n | T_b/T_n | Inertia J Kgm ² | Allowable locket rortor time Hot/Cold (s) | Weight Kg | Sound dB (A) | rpm min ⁻¹ | % of full load | | | | | | I_n (A) | |
| KW | HP | | | | | | | | | | | Efficiency η | | | Power Factor Cos φ | | | | |

II Pole - 3000 min⁻¹

| | | | | | | | | | | | | | | | | | | |
|------|-----|--------|------|------|-----|-----|---------|--------|------|----|------|------|------|------|------|------|------|------|
| 0.75 | 1 | 90S | 2,49 | 7.00 | 2.8 | 3.3 | 0.00181 | 25/55 | 26 | 68 | 2880 | 71.0 | 76.0 | 77.8 | 0.67 | 0.78 | 0.82 | 1.70 |
| 1.1 | 1.5 | 90S | 3,66 | 7.20 | 2.4 | 2.8 | 0.00181 | 13/29 | 26 | 68 | 2870 | 75.0 | 78.5 | 79.0 | 0.68 | 0.78 | 0.84 | 2.39 |
| 1.5 | 2 | 90S | 5,05 | 6.50 | 2.4 | 2.8 | 0.00181 | 12/26 | 27 | 68 | 2840 | 80.4 | 82.1 | 82.8 | 0.72 | 0.81 | 0.86 | 3.04 |
| 2.2 | 3 | 90L | 7,40 | 6.60 | 2.8 | 3.0 | 0.00242 | 11/24 | 29 | 68 | 2840 | 82.2 | 83.7 | 83.4 | 0.67 | 0.78 | 0.84 | 4.53 |
| 3 | 4 | 100L | 9,92 | 7.20 | 2.6 | 2.8 | 0.00616 | 11/24 | 42 | 67 | 2890 | 83.7 | 85.8 | 85.6 | 0.80 | 0.87 | 0.90 | 5.62 |
| 4 | 5.5 | 112M | 13,1 | 7.80 | 2.7 | 3.1 | 0.00842 | 16/35 | 42 | 64 | 2910 | 86.4 | 87.5 | 87.5 | 0.77 | 0.85 | 0.88 | 7.50 |
| 5.5 | 7.5 | 132S | 17,9 | 8.00 | 2.7 | 3.2 | 0.02056 | 9/20 | 86 | 68 | 2935 | 83.9 | 87.0 | 88.3 | 0.75 | 0.83 | 0.87 | 10.3 |
| 7.5 | 10 | 132S | 24,5 | 7.80 | 2.5 | 3.0 | 0.02056 | 9/20 | 83 | 68 | 2920 | 86.5 | 87.5 | 88.5 | 0.76 | 0.84 | 0.88 | 13.9 |
| 11 | 15 | 160M | 35,6 | 8.30 | 2.6 | 3.1 | 0.04707 | 15/33 | 135 | 70 | 2950 | 88.0 | 90.2 | 90.3 | 0.78 | 0.85 | 0.88 | 19.8 |
| 15 | 20 | 160M | 48,7 | 8.30 | 2.5 | 3.2 | 0.05295 | 12/26 | 142 | 70 | 2945 | 89.6 | 91.3 | 91.2 | 0.77 | 0.85 | 0.88 | 26.9 |
| 18.5 | 25 | 160L | 60,0 | 8.20 | 2.6 | 3.3 | 0.06471 | 10/22 | 186 | 70 | 2945 | 90.6 | 92.0 | 91.7 | 0.78 | 0.85 | 0.88 | 33.1 |
| 22 | 30 | 180M | 71,3 | 8.20 | 2.8 | 2.8 | 0.14364 | 13/29 | 236 | 70 | 2950 | 91.1 | 92.4 | 92.1 | 0.75 | 0.83 | 0.87 | 39.5 |
| 30 | 40 | 200L | 96,8 | 7.90 | 2.8 | 2.6 | 0.20630 | 19/42 | 301 | 74 | 2960 | 90.0 | 92.0 | 92.7 | 0.78 | 0.86 | 0.88 | 53.1 |
| 37 | 50 | 200L | 119 | 7.60 | 2.8 | 2.9 | 0.22424 | 19/42 | 312 | 74 | 2960 | 92.4 | 93.0 | 93.0 | 0.80 | 0.86 | 0.88 | 63.8 |
| 45 | 60 | 225S/M | 145 | 8.50 | 2.6 | 3.0 | 0.44846 | 17/37 | 510 | 78 | 2965 | 91.6 | 93.3 | 93.6 | 0.85 | 0.91 | 0.92 | 75.4 |
| 55 | 75 | 250S/M | 177 | 8.50 | 2.9 | 3.3 | 0.55609 | 17/37 | 650 | 78 | 2965 | 92.1 | 93.5 | 93.8 | 0.85 | 0.90 | 0.92 | 92.0 |
| 75 | 100 | 280S/M | 241 | 7.20 | 2.1 | 2.7 | 1.08257 | 42/92 | 740 | 79 | 2975 | 91.4 | 93.4 | 94.2 | 0.80 | 0.87 | 0.89 | 129 |
| 90 | 125 | 280S/M | 289 | 8.30 | 2.2 | 2.8 | 1.27084 | 26/57 | 840 | 79 | 2975 | 92.2 | 93.8 | 94.5 | 0.81 | 0.87 | 0.89 | 154 |
| 110 | 150 | 315S/M | 355 | 7.20 | 2.3 | 2.4 | 1.41204 | 32/70 | 878 | 81 | 2960 | 92.2 | 93.4 | 93.9 | 0.83 | 0.86 | 0.89 | 190 |
| 132 | 175 | 315S/M | 425 | 7.70 | 2.2 | 3.0 | 1.64738 | 38/84 | 970 | 81 | 2970 | 93.0 | 94.3 | 94.8 | 0.85 | 0.89 | 0.90 | 223 |
| 160 | 220 | 315S/M | 515 | 8.50 | 2.4 | 2.8 | 2.11806 | 25/55 | 1230 | 81 | 2970 | 93.2 | 94.2 | 95.0 | 0.87 | 0.89 | 0.90 | 270 |
| 200 | 270 | 355M/L | 640 | 7.20 | 1.6 | 2.1 | 5.17106 | 67/147 | 1480 | 91 | 2985 | 93.6 | 95.1 | 95.6 | 0.88 | 0.89 | 0.90 | 336 |
| 250 | 340 | 355M/L | 800 | 7.20 | 1.7 | 2.1 | 5.74562 | 18/40 | 1800 | 91 | 2985 | 94.0 | 95.6 | 95.8 | 0.88 | 0.90 | 0.91 | 414 |

HIGH OUTPUT DESIGN

| | | | | | | | | | | | | | | | | | | |
|-----|-----|--------|-----|------|-----|-----|---------|-------|-----|----|------|------|------|------|------|------|------|-----|
| 75 | 100 | 250S/M | 242 | 8.50 | 2.6 | 3.0 | 0.55609 | 12/26 | 573 | 78 | 2965 | 92.5 | 93.2 | 93.6 | 0.84 | 0.88 | 0.91 | 127 |
| 110 | 150 | 280S/M | 353 | 7.60 | 2.3 | 3.0 | 1.41204 | 18/40 | 865 | 79 | 2975 | 92.9 | 94.4 | 94.7 | 0.83 | 0.86 | 0.89 | 188 |

IV Pole - 1500min⁻¹

| | | | | | | | | | | | | | | | | | | |
|------|------|--------|------|------|-----|-----|---------|--------|------|----|------|------|------|------|------|------|------|------|
| 0.75 | 1 | 90S | 4,99 | 6.50 | 2.7 | 2.9 | 0.00392 | 13/29 | 26 | 47 | 1435 | 67.0 | 72.5 | 74.0 | 0.51 | 0.66 | 0.76 | 1.92 |
| 1.1 | 1.5 | 90S | 7,51 | 5.50 | 2.5 | 2.6 | 0.00392 | 11/24 | 26 | 47 | 1400 | 71.5 | 76.2 | 76.2 | 0.61 | 0.75 | 0.82 | 2.54 |
| 1.5 | 2 | 90L | 10,2 | 6.80 | 3.0 | 2.7 | 0.00560 | 10/22 | 33 | 47 | 1410 | 75.0 | 78.5 | 78.6 | 0.63 | 0.75 | 0.82 | 3.36 |
| 2.2 | 3 | 100L | 14,7 | 6.70 | 2.8 | 3.0 | 0.00842 | 9/20 | 41 | 51 | 1430 | 79.8 | 82.3 | 83.0 | 0.64 | 0.77 | 0.83 | 4.61 |
| 3 | 4 | 100L | 20,5 | 6.70 | 2.5 | 2.6 | 0.00919 | 8/18 | 43 | 51 | 1400 | 81.5 | 82.6 | 82.6 | 0.68 | 0.78 | 0.84 | 6.24 |
| 4 | 5.5 | 112M | 26,5 | 7.00 | 2.6 | 2.8 | 0.01607 | 9/20 | 59 | 55 | 1440 | 80.5 | 84.2 | 84.2 | 0.65 | 0.77 | 0.82 | 8.36 |
| 5.5 | 7.5 | 132S | 35,7 | 8.00 | 2.4 | 3.0 | 0.04264 | 10/22 | 82 | 58 | 1470 | 85.4 | 87.7 | 88.5 | 0.70 | 0.80 | 0.85 | 10.6 |
| 7.5 | 10 | 132M | 48,9 | 8.10 | 2.5 | 2.8 | 0.05040 | 6/13 | 91 | 58 | 1465 | 86.4 | 88.4 | 88.6 | 0.78 | 0.84 | 0.86 | 14.2 |
| 9.2 | 12.5 | 160M | 60,2 | 6.80 | 2.1 | 2.4 | 0.08030 | 16/35 | 110 | 62 | 1460 | 84.0 | 87.3 | 88.6 | 0.63 | 0.75 | 0.82 | 18.3 |
| 11 | 15 | 160M | 72,0 | 7.00 | 2.1 | 2.4 | 0.08030 | 12/26 | 146 | 62 | 1460 | 85.0 | 88.0 | 89.1 | 0.76 | 0.84 | 0.86 | 20.7 |
| 15 | 20 | 160L | 98,2 | 6.00 | 2.2 | 2.4 | 0.10037 | 9/20 | 167 | 62 | 1460 | 89.0 | 90.4 | 90.6 | 0.72 | 0.81 | 0.84 | 28.4 |
| 18.5 | 25 | 180M | 120 | 7.50 | 2.7 | 3.0 | 0.17939 | 11/24 | 210 | 64 | 1475 | 89.8 | 91.5 | 92.1 | 0.65 | 0.75 | 0.82 | 35.4 |
| 22 | 30 | 180L | 143 | 7.50 | 2.7 | 2.8 | 0.19733 | 14/31 | 216 | 64 | 1470 | 91.6 | 92.5 | 92.4 | 0.68 | 0.77 | 0.81 | 42.4 |
| 30 | 40 | 200L | 194 | 6.50 | 2.2 | 2.5 | 0.33096 | 15/33 | 295 | 67 | 1475 | 91.8 | 93.0 | 93.0 | 0.75 | 0.82 | 0.85 | 54.8 |
| 37 | 50 | 225S/M | 240 | 7.50 | 2.3 | 2.5 | 0.62988 | 12/26 | 392 | 70 | 1475 | 91.2 | 92.5 | 93.1 | 0.83 | 0.88 | 0.89 | 64.5 |
| 45 | 60 | 225S/M | 291 | 7.40 | 2.3 | 2.8 | 0.76986 | 14/31 | 444 | 70 | 1480 | 92.0 | 92.8 | 93.2 | 0.75 | 0.87 | 0.88 | 79.2 |
| 55 | 75 | 250S/M | 355 | 8.00 | 2.6 | 2.8 | 0.97982 | 12/26 | 526 | 70 | 1480 | 92.9 | 93.2 | 93.4 | 0.73 | 0.84 | 0.88 | 96.6 |
| 75 | 100 | 280S/M | 483 | 6.80 | 2.1 | 2.5 | 1.84681 | 25/55 | 740 | 74 | 1485 | 92.0 | 93.3 | 93.6 | 0.76 | 0.82 | 0.86 | 134 |
| 90 | 125 | 280S/M | 579 | 8.20 | 2.4 | 2.7 | 2.32859 | 15/33 | 820 | 74 | 1485 | 92.0 | 93.5 | 94.0 | 0.77 | 0.84 | 0.87 | 159 |
| 110 | 150 | 315S/M | 708 | 7.10 | 2.3 | 2.6 | 2.81036 | 27/59 | 995 | 77 | 1485 | 92.8 | 94.4 | 94.4 | 0.78 | 0.85 | 0.88 | 191 |
| 132 | 175 | 315S/M | 849 | 7.50 | 2.6 | 2.6 | 3.37244 | 27/59 | 1025 | 77 | 1485 | 93.3 | 94.5 | 95.1 | 0.73 | 0.81 | 0.86 | 233 |
| 160 | 220 | 315S/M | 1029 | 8.50 | 2.7 | 2.7 | 3.77392 | 16/35 | 1170 | 77 | 1485 | 93.5 | 94.6 | 95.3 | 0.72 | 0.81 | 0.85 | 285 |
| 200 | 270 | 355M/L | 1283 | 6.60 | 2.2 | 2.4 | 7.45663 | 18/40 | 1350 | 79 | 1490 | 95.0 | 95.4 | 95.5 | 0.81 | 0.86 | 0.88 | 343 |
| 250 | 340 | 355M/L | 1609 | 7.20 | 2.3 | 2.5 | 8.38871 | 48/106 | 1490 | 79 | 1485 | 94.3 | 95.2 | 95.7 | 0.79 | 0.85 | 0.88 | 428 |
| 315 | 430 | 355M/L | 2027 | 6.50 | 2.2 | 2.4 | 11.1850 | 22/48 | 1630 | 79 | 1485 | 95.0 | 95.8 | 96.1 | 0.81 | 0.87 | 0.88 | 538 |

HIGH OUTPUT DESIGN

| | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 110 | 150 | 280S/M | 708 | 7.10 | 2.3 | 2.6 | 2.81036 | 27/59 | 940 | 74 | 1485 | 92.8 | 94. |

| | | 380V | | | | | | 415V | | | | | | | | | | | | |
|--------|----|--------------------------|----------------|----|-----|--------------------|----|------|-----------------------|--------------------------|----------------|----|-----|--------------------|----|-----|-----------------------|--|--|--|
| Output | | rpm min ⁻¹ | % of full load | | | | | | I _n (A) | rpm min ⁻¹ | % of full load | | | | | | I _n (A) | | | |
| KW | HP | | Efficiency η | | | Power Factor Cos φ | | | | | Efficiency η | | | Power Factor Cos φ | | | | | | |
| | | | 50 | 75 | 100 | 50 | 75 | 100 | | | 50 | 75 | 100 | 50 | 75 | 100 | | | | |

II Pole - 3000 min⁻¹

| | | | | | | | | | | | | | | | | | |
|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0.75 | 1 | 2870 | 70.0 | 76.0 | 77.8 | 0.70 | 0.80 | 0.84 | 1.74 | 2890 | 70.0 | 76.0 | 77.8 | 0.63 | 0.75 | 0.80 | 1.68 |
| 1.1 | 1.5 | 2850 | 76.0 | 78.0 | 78.0 | 0.72 | 0.82 | 0.85 | 2.52 | 2885 | 74.0 | 79.0 | 80.0 | 0.65 | 0.76 | 0.83 | 2.30 |
| 1.5 | 2 | 2830 | 76.5 | 80.5 | 81.2 | 0.75 | 0.83 | 0.88 | 3.19 | 2850 | 80.4 | 82.3 | 83.1 | 0.68 | 0.79 | 0.84 | 2.99 |
| 2.2 | 3 | 2830 | 83.1 | 83.5 | 83.3 | 0.70 | 0.80 | 0.87 | 4.61 | 2870 | 82.2 | 84.4 | 84.3 | 0.64 | 0.75 | 0.82 | 4.43 |
| 3 | 4 | 2880 | 84.2 | 85.7 | 85.1 | 0.84 | 0.89 | 0.91 | 5.89 | 2900 | 82.6 | 85.0 | 85.5 | 0.78 | 0.85 | 0.88 | 5.55 |
| 4 | 5.5 | 2890 | 87.0 | 87.5 | 87.5 | 0.80 | 0.86 | 0.89 | 7.80 | 2915 | 85.0 | 87.4 | 88.2 | 0.73 | 0.82 | 0.86 | 7.34 |
| 5.5 | 7.5 | 2930 | 84.4 | 88.7 | 88.4 | 0.77 | 0.85 | 0.88 | 10.7 | 2945 | 83.5 | 86.8 | 88.1 | 0.73 | 0.81 | 0.86 | 10.1 |
| 7.5 | 10 | 2910 | 85.5 | 87.5 | 87.5 | 0.80 | 0.87 | 0.89 | 14.6 | 2925 | 86.5 | 88.5 | 88.5 | 0.73 | 0.82 | 0.86 | 13.7 |
| 11 | 15 | 2945 | 88.1 | 90.0 | 90.3 | 0.80 | 0.86 | 0.89 | 20.7 | 2955 | 87.5 | 89.4 | 91.3 | 0.78 | 0.83 | 0.87 | 19.3 |
| 15 | 20 | 2935 | 90.1 | 91.4 | 91.1 | 0.82 | 0.87 | 0.89 | 28.0 | 2960 | 89.4 | 91.2 | 91.9 | 0.74 | 0.82 | 0.88 | 25.8 |
| 18.5 | 25 | 2940 | 90.9 | 92.0 | 91.6 | 0.81 | 0.86 | 0.89 | 34.5 | 2950 | 90.5 | 92.7 | 92.6 | 0.74 | 0.82 | 0.87 | 31.9 |
| 22 | 30 | 2940 | 91.5 | 92.5 | 92.1 | 0.77 | 0.85 | 0.88 | 41.2 | 2960 | 90.7 | 92.2 | 92.5 | 0.71 | 0.80 | 0.86 | 38.5 |
| 30 | 40 | 2950 | 90.0 | 92.0 | 92.7 | 0.80 | 0.87 | 0.89 | 55.2 | 2965 | 89.5 | 91.7 | 92.5 | 0.75 | 0.84 | 0.87 | 51.9 |
| 37 | 50 | 2960 | 92.4 | 93.0 | 93.0 | 0.82 | 0.87 | 0.89 | 66.4 | 2965 | 91.0 | 92.4 | 93.0 | 0.73 | 0.82 | 0.86 | 62.4 |
| 45 | 60 | 2960 | 91.9 | 93.4 | 93.5 | 0.88 | 0.92 | 0.93 | 78.6 | 2970 | 91.5 | 93.3 | 93.9 | 0.83 | 0.90 | 0.91 | 73.3 |
| 55 | 75 | 2965 | 91.8 | 93.2 | 93.5 | 0.87 | 0.91 | 0.93 | 96.1 | 2970 | 92.0 | 93.5 | 94.0 | 0.83 | 0.92 | 0.92 | 88.5 |
| 75 | 100 | 2970 | 91.9 | 93.6 | 94.2 | 0.83 | 0.88 | 0.90 | 134 | 2980 | 91.2 | 93.2 | 94.2 | 0.78 | 0.85 | 0.88 | 126 |
| 90 | 125 | 2970 | 92.3 | 93.9 | 94.5 | 0.82 | 0.89 | 0.90 | 161 | 2975 | 92.1 | 93.7 | 94.5 | 0.80 | 0.86 | 0.89 | 149 |
| 110 | 150 | 2950 | 92.0 | 93.3 | 93.8 | 0.84 | 0.87 | 0.89 | 200 | 2970 | 92.1 | 93.3 | 93.9 | 0.81 | 0.85 | 0.88 | 185 |
| 132 | 175 | 2965 | 93.1 | 94.4 | 94.8 | 0.86 | 0.89 | 0.90 | 235 | 2975 | 92.9 | 94.2 | 94.8 | 0.83 | 0.88 | 0.89 | 218 |
| 160 | 220 | 2960 | 93.4 | 94.4 | 95.0 | 0.88 | 0.90 | 0.91 | 281 | 2975 | 93.0 | 94.0 | 95.0 | 0.86 | 0.89 | 0.90 | 260 |
| 200 | 270 | 2985 | 93.3 | 95.0 | 95.5 | 0.89 | 0.90 | 0.91 | 350 | 2985 | 93.6 | 95.1 | 95.5 | 0.88 | 0.89 | 0.90 | 324 |
| 250 | 340 | 2980 | 93.8 | 95.6 | 95.8 | 0.89 | 0.91 | 0.92 | 431 | 2985 | 93.8 | 95.6 | 95.8 | 0.87 | 0.89 | 0.90 | 403 |

HIGH OUTPUT DESIGN

| | | | | | | | | | | | | | | | | | |
|-----|-----|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|-----|
| 75 | 100 | 2965 | 92.3 | 93.0 | 93.4 | 0.85 | 0.89 | 0.92 | 133 | 2970 | 92.6 | 93.4 | 93.7 | 0.82 | 0.87 | 0.91 | 122 |
| 110 | 150 | 2970 | 93.0 | 94.4 | 94.7 | 0.84 | 0.87 | 0.89 | 198 | 2980 | 92.8 | 94.4 | 94.7 | 0.81 | 0.85 | 0.88 | 184 |

IV Pole - 1500 min⁻¹

| | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0.75 | 1 | 1430 | 67.5 | 73.0 | 74.2 | 0.57 | 0.70 | 0.78 | 1.97 | 1440 | 64.5 | 71.5 | 73.6 | 0.48 | 0.61 | 0.72 | 1.97 |
| 1.1 | 1.5 | 1390 | 72.0 | 76.4 | 76.2 | 0.67 | 0.80 | 0.85 | 2.58 | 1410 | 70.0 | 76.2 | 76.3 | 0.56 | 0.71 | 0.80 | 2.51 |
| 1.5 | 2 | 1390 | 76.0 | 78.7 | 78.5 | 0.67 | 0.79 | 0.85 | 3.42 | 1420 | 73.5 | 78.5 | 78.8 | 0.58 | 0.72 | 0.80 | 3.31 |
| 2.2 | 3 | 1420 | 80.0 | 81.7 | 81.2 | 0.67 | 0.71 | 0.86 | 4.79 | 1440 | 79.0 | 82.0 | 83.0 | 0.62 | 0.75 | 0.82 | 4.50 |
| 3 | 4 | 1390 | 82.0 | 82.3 | 82.0 | 0.70 | 0.80 | 0.86 | 6.46 | 1410 | 80.5 | 82.5 | 82.7 | 0.65 | 0.75 | 0.82 | 6.15 |
| 4 | 5.5 | 1430 | 81.3 | 84.2 | 84.0 | 0.73 | 0.81 | 0.84 | 8.61 | 1445 | 79.5 | 83.5 | 84.0 | 0.60 | 0.74 | 0.79 | 8.39 |
| 5.5 | 7.5 | 1460 | 86.7 | 88.4 | 88.5 | 0.76 | 0.82 | 0.87 | 10.9 | 1475 | 83.8 | 87.7 | 87.8 | 0.62 | 0.74 | 0.82 | 10.6 |
| 7.5 | 10 | 1460 | 88.0 | 89.2 | 88.8 | 0.80 | 0.85 | 0.88 | 14.6 | 1470 | 85.0 | 87.7 | 88.6 | 0.75 | 0.80 | 0.83 | 14.2 |
| 9.2 | 12.5 | 1455 | 84.0 | 87.0 | 88.5 | 0.70 | 0.80 | 0.84 | 18.8 | 1465 | 84.0 | 87.2 | 88.6 | 0.57 | 0.70 | 0.80 | 18.1 |
| 11 | 15 | 1450 | 84.7 | 87.9 | 88.9 | 0.80 | 0.85 | 0.87 | 21.6 | 1465 | 85.0 | 87.8 | 89.0 | 0.71 | 0.83 | 0.85 | 20.2 |
| 15 | 20 | 1450 | 90.3 | 91.0 | 90.1 | 0.86 | 0.84 | 0.86 | 29.4 | 1465 | 88.3 | 90.0 | 90.1 | 0.68 | 0.78 | 0.83 | 27.9 |
| 18.5 | 25 | 1470 | 90.8 | 92.2 | 92.1 | 0.68 | 0.80 | 0.84 | 36.3 | 1475 | 88.6 | 91.0 | 92.0 | 0.60 | 0.73 | 0.80 | 35.0 |
| 22 | 30 | 1465 | 92.0 | 92.2 | 92.3 | 0.73 | 0.80 | 0.84 | 43.1 | 1475 | 91.1 | 91.7 | 92.5 | 0.65 | 0.75 | 0.79 | 41.9 |
| 30 | 40 | 1470 | 92.2 | 93.0 | 92.6 | 0.78 | 0.84 | 0.86 | 57.2 | 1480 | 91.8 | 93.1 | 93.3 | 0.73 | 0.81 | 0.85 | 52.6 |
| 37 | 50 | 1470 | 91.5 | 92.6 | 93.0 | 0.85 | 0.89 | 0.90 | 67.2 | 1480 | 90.0 | 92.0 | 93.0 | 0.81 | 0.87 | 0.88 | 62.9 |
| 45 | 60 | 1475 | 92.3 | 93.0 | 93.2 | 0.80 | 0.89 | 0.90 | 81.5 | 1480 | 91.5 | 92.6 | 93.1 | 0.70 | 0.82 | 0.86 | 78.2 |
| 55 | 75 | 1475 | 93.0 | 93.3 | 93.3 | 0.75 | 0.86 | 0.89 | 101 | 1480 | 92.5 | 93.1 | 93.5 | 0.70 | 0.82 | 0.87 | 94.1 |
| 75 | 100 | 1480 | 92.1 | 93.3 | 93.6 | 0.79 | 0.84 | 0.87 | 140 | 1485 | 91.5 | 93.0 | 93.6 | 0.73 | 0.81 | 0.85 | 131 |
| 90 | 125 | 1480 | 92.2 | 93.5 | 94.0 | 0.80 | 0.86 | 0.88 | 165 | 1490 | 91.6 | 93.4 | 94.0 | 0.74 | 0.82 | 0.86 | 155 |
| 110 | 150 | 1480 | 92.8 | 93.6 | 94.2 | 0.80 | 0.86 | 0.88 | 202 | 1485 | 92.8 | 94.4 | 94.4 | 0.76 | 0.83 | 0.87 | 186 |
| 132 | 175 | 1485 | 93.5 | 94.6 | 95.1 | 0.76 | 0.84 | 0.87 | 242 | 1490 | 93.0 | 94.4 | 95.1 | 0.70 | 0.80 | 0.85 | 227 |
| 160 | 220 | 1485 | 93.6 | 94.7 | 95.2 | 0.76 | 0.83 | 0.86 | 297 | 1490 | 93.2 | 94.5 | 95.3 | 0.70 | 0.78 | 0.83 | 281 |
| 200 | 270 | 1485 | 95.1 | 95.4 | 95.4 | 0.83 | 0.88 | 0.89 | 358 | 1490 | 94.8 | 95.4 | 95.5 | 0.79 | 0.85 | 0.87 | 335 |
| 250 | 340 | 1485 | 94.4 | 95.2 | 95.6 | 0.82 | 0.87 | 0.89 | 446 | 1490 | 94.0 | 95.0 | 95.6 | 0.76 | 0.84 | 0.87 | 418 |
| 315 | 430 | 1485 | 95.1 | 95.8 | 96.0 | 0.84 | 0.88 | 0.88 | 567 | 1490 | 94.8 | 95.6 | 96.0 | 0.79 | 0.86 | 0.87 | 525 |

HIGH OUTPUT DESIGN

| | | | | | | | | | | | | | | | | | |
|-----|-----|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|-----|
| 110 | 150 | 1480 | 92.8 | 93.6 | 94.2 | 0.80 | 0.86 | 0.88 | 202 | 1485 | 92.8 | 94.4 | 94.5 | 0.76 | 0.83 | 0.87 | 186 |
|-----|-----|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|-----|

Notes:

- The motors can also operate to a 60Hz supply. The change in performance data can be obtained directly from the local WEG representative.
- The values shown herewith are subjected to change without prior notice.

Explosion Proof Multivoltage Motors

Explosion Proof Multivoltage Motors with Increased Safety Terminal Box

EEx d / EEx de II B T4

| Output | | Frame IEC | C_n (Nm) | I/I_n | T/T_n | T_b/T_n | Inertia J Kgm ² | Allowable locket rотор time Hot/Cold (s) | Weight Kg | Sound dB (A) | rpm min ⁻¹ | 400V | | | | | | I_n (A) |
|--------|----|-----------|------------|---------|---------|-----------|----------------------------|--|-----------|--------------|-----------------------|----------------|----|-----|--------------|----|-----|-----------|
| | | | | | | | | | | | | % of full load | | | Efficiency η | | | |
| KW | HP | | | | | | | | | | | 50 | 75 | 100 | 50 | 75 | 100 | |

VI Pole - 1000 min⁻¹

| | | | | | | | | | | | | | | | | | | |
|------|-----|--------|------|------|-----|-----|---------|-------|------|----|-----|------|------|------|------|------|------|------|
| 0.75 | 1 | 90L | 7,92 | 5.20 | 1.9 | 2.0 | 0.00448 | 8/18 | 27 | 45 | 905 | 70.0 | 71.0 | 71.0 | 0.54 | 0.68 | 0.77 | 1.98 |
| 1.1 | 1.5 | 90L | 11,5 | 4.50 | 1.9 | 2.2 | 0.00560 | 11/24 | 30 | 45 | 915 | 66.3 | 70.7 | 72.9 | 0.48 | 0.63 | 0.72 | 3.02 |
| 1.5 | 2 | 100L | 15,2 | 4.80 | 2.2 | 2.5 | 0.01121 | 12/26 | 54 | 44 | 940 | 74.0 | 77.0 | 77.5 | 0.53 | 0.65 | 0.74 | 3.78 |
| 2.2 | 3 | 112M | 22,4 | 5.00 | 2.2 | 2.3 | 0.01682 | 11/24 | 66 | 48 | 940 | 77.0 | 80.5 | 80.1 | 0.53 | 0.66 | 0.74 | 5.36 |
| 3 | 4 | 132S | 30,2 | 5.30 | 1.9 | 2.2 | 0.03489 | 16/35 | 80 | 52 | 950 | 80.5 | 83.0 | 82.5 | 0.58 | 0.70 | 0.77 | 6.82 |
| 4 | 5.5 | 132M | 39,8 | 6.00 | 2.1 | 2.2 | 0.05039 | 15/33 | 89 | 52 | 960 | 82.2 | 84.5 | 85.0 | 0.60 | 0.70 | 0.77 | 8.82 |
| 5.5 | 7.5 | 132M | 54,7 | 6.40 | 2.2 | 2.4 | 0.06203 | 14/31 | 126 | 52 | 960 | 84.0 | 85.8 | 85.8 | 0.56 | 0.69 | 0.76 | 12.1 |
| 7.5 | 10 | 160M | 73,9 | 6.40 | 2.3 | 2.9 | 0.12209 | 15/33 | 135 | 56 | 970 | 87.1 | 88.4 | 88.0 | 0.62 | 0.74 | 0.81 | 15.2 |
| 11 | 15 | 160L | 108 | 6.70 | 2.4 | 2.6 | 0.17596 | 12/26 | 162 | 56 | 975 | 86.7 | 88.3 | 88.3 | 0.59 | 0.72 | 0.79 | 22.8 |
| 15 | 20 | 180L | 149 | 7.50 | 2.5 | 2.6 | 0.30338 | 10/22 | 215 | 56 | 965 | 89.1 | 90.1 | 89.8 | 0.78 | 0.86 | 0.89 | 26.9 |
| 18.5 | 25 | 200L | 181 | 6.00 | 2.3 | 2.5 | 0.37671 | 23/51 | 267 | 58 | 975 | 89.3 | 91.0 | 91.3 | 0.70 | 0.79 | 0.84 | 34.8 |
| 22 | 30 | 200L | 216 | 6.30 | 2.3 | 2.6 | 0.41258 | 17/37 | 273 | 58 | 975 | 88.9 | 90.9 | 91.5 | 0.65 | 0.75 | 0.81 | 42.8 |
| 30 | 40 | 225S/M | 291 | 7.20 | 2.5 | 2.6 | 0.98843 | 22/48 | 360 | 61 | 985 | 91.0 | 91.8 | 91.8 | 0.77 | 0.83 | 0.86 | 54.4 |
| 37 | 50 | 250S/M | 361 | 7.90 | 2.5 | 2.7 | 1.22377 | 20/44 | 386 | 61 | 980 | 91.0 | 92.4 | 92.8 | 0.76 | 0.85 | 0.87 | 66.1 |
| 45 | 60 | 280S/M | 437 | 6.80 | 2.2 | 2.5 | 2.29825 | 25/55 | 790 | 66 | 985 | 90.0 | 91.5 | 92.8 | 0.68 | 0.78 | 0.83 | 84.3 |
| 55 | 75 | 280S/M | 534 | 6.80 | 2.2 | 2.5 | 2.64298 | 24/53 | 819 | 66 | 985 | 92.0 | 93.2 | 93.5 | 0.68 | 0.78 | 0.83 | 102 |
| 75 | 100 | 315S/M | 728 | 6.70 | 2.1 | 2.3 | 3.10263 | 29/64 | 1060 | 69 | 985 | 92.0 | 93.4 | 93.7 | 0.71 | 0.81 | 0.85 | 136 |
| 90 | 125 | 315S/M | 873 | 6.40 | 2.0 | 2.3 | 3.67719 | 22/48 | 1150 | 69 | 985 | 92.1 | 93.6 | 93.9 | 0.70 | 0.80 | 0.84 | 165 |
| 110 | 150 | 315S/M | 1067 | 6.50 | 2.3 | 2.4 | 5.28597 | 30/66 | 1260 | 69 | 985 | 93.5 | 94.5 | 94.6 | 0.69 | 0.79 | 0.84 | 200 |
| 132 | 175 | 355M/L | 1274 | 6.10 | 2.0 | 2.4 | 8.10160 | 20/44 | 1470 | 73 | 990 | 93.0 | 94.1 | 94.6 | 0.60 | 0.72 | 0.78 | 258 |
| 160 | 220 | 355M/L | 1544 | 6.20 | 1.9 | 2.2 | 9.05472 | 25/55 | 1620 | 73 | 990 | 93.0 | 94.1 | 94.8 | 0.65 | 0.73 | 0.78 | 312 |
| 200 | 270 | 355M/L | 1930 | 6.20 | 2.2 | 2.3 | 12.3907 | 25/55 | 1780 | 73 | 990 | 93.2 | 94.5 | 95.0 | 0.65 | 0.74 | 0.80 | 380 |
| 250 | 340 | 355M/L | 2413 | 6.00 | 2.0 | 2.1 | 14.2969 | 30/66 | 1880 | 73 | 990 | 93.8 | 95.0 | 95.3 | 0.68 | 0.76 | 0.80 | 473 |
| 280 | 380 | 355M/L | 2702 | 6.00 | 2.1 | 2.2 | 14.7735 | 30/66 | 1930 | 73 | 990 | 93.6 | 95.0 | 95.3 | 0.65 | 0.75 | 0.80 | 530 |

VIII Pole - 750 min⁻¹

| | | | | | | | | | | | | | | | | | | |
|------|------|--------|------|------|-----|-----|---------|--------|------|----|-----|------|------|------|------|------|------|------|
| 0.37 | 0.5 | 90L | 5,12 | 4.00 | 2.1 | 2.1 | 0.00448 | 12/26 | 30 | 43 | 690 | 50.0 | 57.5 | 61.0 | 0.40 | 0.50 | 0.58 | 1.51 |
| 0.55 | 0.75 | 90L | 7,62 | 3.70 | 2.3 | 2.2 | 0.00561 | 16/35 | 31 | 43 | 690 | 51.6 | 60.0 | 64.0 | 0.40 | 0.50 | 0.60 | 2.07 |
| 0.75 | 1 | 100L | 10,2 | 4.60 | 2.0 | 2.1 | 0.01121 | 26/57 | 42 | 50 | 700 | 60.0 | 67.0 | 69.0 | 0.38 | 0.48 | 0.59 | 2.66 |
| 1.1 | 1.5 | 100L | 15,0 | 4.20 | 1.7 | 2.1 | 0.01289 | 21/46 | 62 | 50 | 700 | 64.0 | 70.0 | 72.2 | 0.43 | 0.56 | 0.65 | 3.38 |
| 1.5 | 2 | 112M | 20,2 | 5.00 | 2.2 | 2.3 | 0.02243 | 18/40 | 78 | 46 | 710 | 71.5 | 75.5 | 76.3 | 0.46 | 0.60 | 0.68 | 4.17 |
| 2.2* | 3 | 132S | 29,6 | 6.00 | 2.1 | 2.3 | 0.05520 | 13/29 | 90 | 48 | 710 | 79.2 | 80.0 | 80.5 | 0.51 | 0.64 | 0.72 | 5.48 |
| 3 | 4 | 132M | 40,4 | 6.50 | 2.5 | 2.6 | 0.07528 | 14/31 | 126 | 48 | 710 | 79.6 | 82.0 | 83.0 | 0.52 | 0.64 | 0.72 | 7.25 |
| 4 | 5.5 | 160M | 52,4 | 5.40 | 2.3 | 3.1 | 0.12209 | 10/22 | 149 | 51 | 730 | 81.3 | 84.4 | 86.0 | 0.46 | 0.57 | 0.66 | 10.2 |
| 5.5 | 7.5 | 160M | 72,0 | 5.40 | 2.4 | 3.2 | 0.14364 | 10/22 | 152 | 51 | 730 | 83.0 | 84.0 | 85.0 | 0.53 | 0.54 | 0.68 | 13.7 |
| 7.5 | 10 | 160L | 98,8 | 5.00 | 2.1 | 2.4 | 0.16518 | 14/31 | 172 | 51 | 725 | 84.0 | 86.0 | 85.5 | 0.50 | 0.63 | 0.72 | 17.6 |
| 11 | 15 | 180L | 145 | 6.80 | 2.2 | 2.4 | 0.30338 | 10/22 | 214 | 51 | 725 | 87.0 | 88.5 | 88.3 | 0.70 | 0.79 | 0.84 | 21.4 |
| 15 | 20 | 200L | 198 | 5.00 | 2.0 | 2.1 | 0.37671 | 11/24 | 253 | 53 | 725 | 87.0 | 88.5 | 88.9 | 0.55 | 0.67 | 0.74 | 32.9 |
| 18.5 | 25 | 225S/M | 240 | 6.70 | 2.1 | 2.5 | 0.84723 | 16/35 | 415 | 56 | 735 | 88.3 | 90.0 | 89.8 | 0.70 | 0.78 | 0.83 | 35.6 |
| 22 | 30 | 225S/M | 288 | 6.50 | 2.1 | 2.4 | 0.98843 | 11/24 | 428 | 56 | 730 | 88.8 | 91.0 | 91.3 | 0.70 | 0.80 | 0.82 | 42.4 |
| 30 | 40 | 250S/M | 393 | 6.80 | 2.1 | 2.4 | 1.22377 | 17/37 | 470 | 56 | 730 | 89.0 | 91.1 | 91.8 | 0.70 | 0.78 | 0.83 | 56.7 |
| 37 | 50 | 280S/M | 481 | 6.70 | 1.8 | 2.2 | 2.29825 | 20/44 | 550 | 59 | 735 | 90.0 | 92.2 | 92.3 | 0.68 | 0.78 | 0.82 | 70.6 |
| 45 | 60 | 280S/M | 581 | 7.30 | 1.9 | 2.0 | 2.64298 | 27/59 | 765 | 59 | 740 | 90.4 | 92.5 | 93.0 | 0.57 | 0.70 | 0.76 | 91.9 |
| 55 | 75 | 315S/M | 715 | 6.50 | 1.9 | 2.0 | 3.10263 | 20/44 | 790 | 62 | 735 | 90.9 | 93.1 | 93.3 | 0.69 | 0.78 | 0.82 | 104 |
| 75 | 100 | 315S/M | 968 | 7.20 | 1.9 | 2.0 | 4.36667 | 19/42 | 925 | 62 | 740 | 91.5 | 93.3 | 93.5 | 0.68 | 0.77 | 0.81 | 143 |
| 90 | 125 | 315S/M | 1162 | 6.90 | 2.1 | 2.2 | 5.28597 | 26/57 | 1132 | 62 | 740 | 91.6 | 93.8 | 94.4 | 0.70 | 0.78 | 0.83 | 166 |
| 110 | 150 | 355M/L | 1430 | 6.00 | 1.7 | 1.8 | 12.5604 | 30/66 | 1390 | 70 | 735 | 92.0 | 94.0 | 94.6 | 0.63 | 0.73 | 0.79 | 212 |
| 132 | 175 | 355M/L | 1716 | 6.20 | 1.6 | 1.7 | 14.7585 | 31/68 | 1520 | 70 | 735 | 93.0 | 94.4 | 94.8 | 0.63 | 0.74 | 0.79 | 254 |
| 160 | 220 | 355M/L | 2080 | 6.30 | 1.2 | 1.8 | 16.3286 | 56/123 | 1710 | 70 | 735 | 93.1 | 94.8 | 95.0 | 0.60 | 0.79 | 0.79 | 308 |
| 200 | 270 | 355M/L | 2582 | 6.30 | 1.6 | 1.8 | 18.2126 | 30/66 | 1820 | 70 | 740 | 93.3 | 94.8 | 95.2 | 0.55 | 0.68 | 0.78 | 389 |

C_n = Full load torque

I/I_n = Locked rotor current

T/T_n = Locked rotor torque

T_b/T_n = Breakdown torque

I_n = Full load current

Standard voltage, connection and frequency:

220-240V Δ 50Hz 380-415V Δ 50Hz

380-415V Y 50Hz 660-690V Y 50Hz

440-480V Y 60Hz 440-480V Δ 60Hz

| Output | | 380V | | | | | | 415V | | | | | | I_n (A) | | |
|--------|----|--------------------------|-------------------|----|-----|-------------------------|----|------|--------------|--------------------------|-------------------|----|-----|-------------------------|----|-----|
| | | rpm min^{-1} | % of full load | | | | | | I_n (A) | rpm min^{-1} | % of full load | | | | | |
| | | | Efficiency η | | | Power Factor Cos ϕ | | | | | Efficiency η | | | Power Factor Cos ϕ | | |
| KW | HP | | 50 | 75 | 100 | 50 | 75 | 100 | | | 50 | 75 | 100 | 50 | 75 | 100 |

VI Pole - 1000 min^{-1}

| | | | | | | | | | | | | | | | | | |
|------|-----|-----|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 0.75 | 1 | 890 | 67.0 | 68.0 | 68.0 | 0.57 | 0.71 | 0.80 | 2.09 | 920 | 68.0 | 72.4 | 72.4 | 0.51 | 0.64 | 0.75 | 1.92 |
| 1.1 | 1.5 | 905 | 68.0 | 70.8 | 72.6 | 0.50 | 0.65 | 0.75 | 3.07 | 925 | 65.0 | 70.5 | 73.0 | 0.45 | 0.60 | 0.68 | 3.08 |
| 1.5 | 2 | 930 | 75.0 | 77.5 | 77.3 | 0.56 | 0.69 | 0.77 | 3.83 | 950 | 72.0 | 77.3 | 77.6 | 0.50 | 0.63 | 0.71 | 3.79 |
| 2.2 | 3 | 930 | 78.0 | 80.0 | 80.0 | 0.55 | 0.68 | 0.76 | 5.50 | 950 | 76.0 | 80.3 | 80.5 | 0.50 | 0.63 | 0.72 | 5.28 |
| 3 | 4 | 940 | 80.0 | 83.0 | 82.0 | 0.60 | 0.72 | 0.79 | 7.04 | 960 | 80.0 | 83.0 | 82.6 | 0.53 | 0.66 | 0.74 | 6.83 |
| 4 | 5.5 | 950 | 82.8 | 84.4 | 84.6 | 0.61 | 0.72 | 0.79 | 9.09 | 970 | 81.8 | 84.4 | 85.1 | 0.58 | 0.68 | 0.75 | 8.72 |
| 5.5 | 7.5 | 955 | 83.0 | 85.5 | 85.6 | 0.58 | 0.71 | 0.77 | 12.7 | 965 | 84.0 | 86.1 | 86.0 | 0.54 | 0.66 | 0.74 | 12.0 |
| 7.5 | 10 | 965 | 86.5 | 88.0 | 87.2 | 0.66 | 0.78 | 0.83 | 15.7 | 970 | 85.5 | 88.0 | 88.0 | 0.58 | 0.71 | 0.79 | 15.0 |
| 11 | 15 | 970 | 87.7 | 88.7 | 88.3 | 0.64 | 0.76 | 0.82 | 23.1 | 975 | 85.8 | 87.8 | 88.1 | 0.54 | 0.68 | 0.76 | 22.9 |
| 15 | 20 | 960 | 89.0 | 90.0 | 89.8 | 0.80 | 0.88 | 0.90 | 28.1 | 970 | 89.0 | 90.5 | 90.5 | 0.75 | 0.84 | 0.88 | 26.2 |
| 18.5 | 25 | 970 | 89.5 | 90.2 | 89.8 | 0.74 | 0.82 | 0.86 | 35.9 | 980 | 89.0 | 90.8 | 91.2 | 0.66 | 0.76 | 0.82 | 34.4 |
| 22 | 30 | 970 | 89.0 | 90.8 | 91.2 | 0.70 | 0.80 | 0.84 | 43.6 | 980 | 88.8 | 91.0 | 91.3 | 0.60 | 0.70 | 0.78 | 43.0 |
| 30 | 40 | 980 | 91.0 | 91.5 | 91.8 | 0.79 | 0.85 | 0.87 | 56.7 | 990 | 91.0 | 91.8 | 92.2 | 0.74 | 0.82 | 0.85 | 53.0 |
| 37 | 50 | 980 | 91.2 | 92.4 | 92.7 | 0.80 | 0.86 | 0.88 | 68.9 | 985 | 90.8 | 92.3 | 92.8 | 0.73 | 0.83 | 0.86 | 64.5 |
| 45 | 60 | 985 | 90.5 | 91.6 | 92.6 | 0.72 | 0.81 | 0.85 | 86.9 | 990 | 89.5 | 91.4 | 92.9 | 0.63 | 0.75 | 0.81 | 83.2 |
| 55 | 75 | 980 | 92.1 | 93.2 | 93.4 | 0.72 | 0.81 | 0.84 | 107 | 985 | 92.0 | 93.2 | 93.6 | 0.65 | 0.76 | 0.82 | 100 |
| 75 | 100 | 985 | 92.0 | 93.2 | 93.5 | 0.72 | 0.82 | 0.86 | 142 | 985 | 92.0 | 93.5 | 93.8 | 0.68 | 0.78 | 0.83 | 134 |
| 90 | 125 | 980 | 92.0 | 93.5 | 93.7 | 0.74 | 0.82 | 0.85 | 172 | 985 | 92.0 | 93.5 | 93.8 | 0.67 | 0.77 | 0.82 | 163 |
| 110 | 150 | 985 | 93.3 | 94.3 | 94.4 | 0.73 | 0.81 | 0.85 | 208 | 985 | 93.6 | 94.5 | 94.7 | 0.66 | 0.77 | 0.82 | 197 |
| 132 | 175 | 990 | 93.1 | 94.2 | 94.6 | 0.66 | 0.76 | 0.80 | 265 | 995 | 93.0 | 94.0 | 94.4 | 0.57 | 0.69 | 0.75 | 259 |
| 160 | 220 | 990 | 93.0 | 94.2 | 94.8 | 0.68 | 0.75 | 0.80 | 321 | 995 | 92.9 | 94.0 | 94.7 | 0.60 | 0.70 | 0.76 | 309 |
| 200 | 270 | 990 | 93.1 | 94.3 | 95.0 | 0.70 | 0.78 | 0.82 | 390 | 995 | 93.0 | 94.4 | 95.0 | 0.60 | 0.72 | 0.78 | 375 |
| 250 | 340 | 990 | 93.9 | 95.1 | 95.3 | 0.71 | 0.79 | 0.82 | 486 | 995 | 93.6 | 94.9 | 95.2 | 0.66 | 0.74 | 0.78 | 468 |
| 280 | 380 | 985 | 93.9 | 95.1 | 95.4 | 0.70 | 0.78 | 0.81 | 551 | 990 | 93.5 | 94.8 | 95.2 | 0.62 | 0.73 | 0.77 | 531 |

VIII Pole - 750 min^{-1}

| | | | | | | | | | | | | | | | | | |
|------|------|-----|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 0.37 | 0.5 | 680 | 52.3 | 60.0 | 62.0 | 0.42 | 0.53 | 0.62 | 1.46 | 700 | 48.0 | 57.0 | 61.0 | 0.36 | 0.47 | 0.55 | 1.53 |
| 0.55 | 0.75 | 680 | 54.0 | 61.0 | 64.7 | 0.44 | 0.55 | 0.64 | 2.02 | 700 | 48.5 | 57.2 | 62.5 | 0.38 | 0.47 | 0.56 | 2.19 |
| 0.75 | 1 | 690 | 60.0 | 67.0 | 69.0 | 0.40 | 0.50 | 0.61 | 2.71 | 710 | 60.0 | 68.4 | 69.0 | 0.36 | 0.46 | 0.57 | 2.65 |
| 1.1 | 1.5 | 690 | 64.0 | 70.0 | 72.0 | 0.45 | 0.58 | 0.67 | 3.46 | 710 | 64.0 | 71.5 | 72.2 | 0.40 | 0.53 | 0.63 | 3.36 |
| 1.5 | 2 | 700 | 72.0 | 75.7 | 76.0 | 0.50 | 0.63 | 0.70 | 4.28 | 715 | 71.0 | 75.0 | 76.3 | 0.43 | 0.57 | 0.66 | 4.14 |
| 2.2 | 3 | 700 | 79.5 | 80.0 | 80.0 | 0.56 | 0.68 | 0.75 | 5.57 | 715 | 78.5 | 79.6 | 80.5 | 0.48 | 0.61 | 0.70 | 5.43 |
| 3 | 4 | 700 | 80.5 | 82.5 | 82.0 | 0.54 | 0.66 | 0.74 | 7.51 | 715 | 78.0 | 81.5 | 82.0 | 0.50 | 0.62 | 0.70 | 7.27 |
| 4 | 5.5 | 725 | 82.6 | 85.0 | 85.9 | 0.48 | 0.61 | 0.70 | 10.1 | 730 | 79.9 | 83.6 | 86.0 | 0.41 | 0.54 | 0.63 | 10.3 |
| 5.5 | 7.5 | 725 | 83.0 | 84.7 | 85.2 | 0.45 | 0.55 | 0.69 | 14.2 | 730 | 83.0 | 84.0 | 85.0 | 0.40 | 0.52 | 0.68 | 13.2 |
| 7.5 | 10 | 720 | 84.0 | 86.0 | 85.5 | 0.52 | 0.65 | 0.73 | 18.3 | 730 | 84.0 | 86.0 | 85.5 | 0.48 | 0.60 | 0.70 | 17.4 |
| 11 | 15 | 720 | 87.0 | 88.0 | 88.0 | 0.72 | 0.80 | 0.85 | 22.3 | 730 | 87.0 | 88.6 | 88.5 | 0.68 | 0.78 | 0.83 | 20.8 |
| 15 | 20 | 720 | 86.0 | 88.0 | 88.0 | 0.60 | 0.70 | 0.76 | 34.1 | 730 | 87.0 | 88.5 | 88.9 | 0.50 | 0.64 | 0.72 | 32.6 |
| 18.5 | 25 | 730 | 88.3 | 90.0 | 89.8 | 0.72 | 0.80 | 0.84 | 37.3 | 740 | 88.2 | 90.3 | 90.2 | 0.67 | 0.76 | 0.82 | 34.8 |
| 22 | 30 | 725 | 89.0 | 90.6 | 90.9 | 0.72 | 0.80 | 0.83 | 44.3 | 735 | 88.3 | 91.0 | 91.2 | 0.67 | 0.78 | 0.80 | 41.9 |
| 30 | 40 | 725 | 89.2 | 91.0 | 91.7 | 0.72 | 0.79 | 0.83 | 59.9 | 735 | 88.9 | 91.0 | 92.0 | 0.68 | 0.77 | 0.82 | 55.3 |
| 37 | 50 | 730 | 90.3 | 92.0 | 92.1 | 0.70 | 0.79 | 0.83 | 73.5 | 740 | 90.0 | 92.2 | 92.4 | 0.65 | 0.76 | 0.80 | 69.6 |
| 45 | 60 | 735 | 90.3 | 92.4 | 92.7 | 0.60 | 0.72 | 0.78 | 94.6 | 740 | 90.2 | 92.5 | 93.0 | 0.55 | 0.68 | 0.74 | 91.0 |
| 55 | 75 | 735 | 91.2 | 93.0 | 93.1 | 0.71 | 0.80 | 0.83 | 108 | 740 | 90.6 | 93.1 | 93.4 | 0.65 | 0.76 | 0.81 | 101 |
| 75 | 100 | 735 | 91.3 | 93.2 | 93.3 | 0.70 | 0.78 | 0.82 | 149 | 740 | 91.4 | 93.3 | 93.4 | 0.65 | 0.75 | 0.79 | 141 |
| 90 | 125 | 735 | 91.8 | 93.7 | 94.2 | 0.73 | 0.80 | 0.84 | 173 | 740 | 91.5 | 93.7 | 94.3 | 0.68 | 0.76 | 0.81 | 164 |
| 110 | 150 | 730 | 92.3 | 93.9 | 94.5 | 0.65 | 0.74 | 0.80 | 221 | 740 | 92.0 | 94.0 | 94.5 | 0.60 | 0.70 | 0.77 | 210 |
| 132 | 175 | 730 | 92.9 | 94.2 | 94.6 | 0.65 | 0.75 | 0.80 | 265 | 740 | 92.9 | 94.4 | 94.8 | 0.60 | 0.72 | 0.78 | 248 |
| 160 | 220 | 735 | 93.2 | 94.6 | 94.8 | 0.60 | 0.80 | 0.80 | 321 | 740 | 93.0 | 94.9 | 95.0 | 0.58 | 0.78 | 0.78 | 300 |
| 200 | 270 | 740 | 93.3 | 94.7 | 95.0 | 0.58 | 0.70 | 0.80 | 400 | 745 | 93.2 | 94.6 | 95.2 | 0.50 | 0.65 | 0.76 | 385 |

Notes:

- The motors can also operate to a 60Hz supply. The change in performance data can be obtained directly from the local WEG representative.
- The values shown herewith are subjected to change without prior notice.



Two Speed Explosion Proof Motors

Two Speed Explosion Proof Motors With Increased Safety Terminal Box

EEx d / EEx de II B T3

| Output kW | Frame IEC | rpm mim ⁻¹ | I _l A 400V | T _l / T _n | I _l / I _n | Inertia J kgm ² | Weight kg |
|--|--------------|--------------------------|-----------------------------|---------------------------------|---------------------------------|----------------------------------|--------------|
| II / IV Pole - 3000/1500 min ⁻¹ | | | | | | | |
| 0.85/0.70 | 90S | 2815/1390 | 2.19/1.71 | 1.8/1.8 | 4.3/4.3 | 0.0033 | 25 |
| 1.40/1.10 | 90L | 2705/1380 | 3.33/2.47 | 2.6/2.3 | 5.2/5.5 | 0.0045 | 31 |
| 1.90/1.50 | 100L | 2880/1430 | 4.00/3.33 | 2.0/1.9 | 5.3/4.9 | 0.0074 | 41 |
| 2.40/2.00 | 100L | 2850/1400 | 5.70/4.75 | 2.9/2.5 | 7.8/6.4 | 0.0085 | 44 |
| 3.10/2.60 | 112M | 2855/1420 | 6.18/5.32 | 2.5/2.0 | 7.7/6.4 | 0.0146 | 58 |
| 4.40/3.70 | 132S | 2920/1465 | 11.4/7.70 | 2.5/2.2 | 7.4/7.1 | 0.0349 | 68 |
| 5.90/4.90 | 132S | 2885/1440 | 14.3/9.50 | 2.0/1.8 | 6.0/6.7 | 0.0407 | 73 |
| 8.00/6.80 | 132M | 2870/1440 | 17.1/13.3 | 1.9/1.9 | 6.1/6.3 | 0.0465 | 84 |
| 11.0/9.50 | 160M | 2930/1460 | 23.8/19.0 | 2.1/2.1 | 7.5/7.1 | 0.0722 | 125 |
| 14.5/12.0 | 160L | 2900/1455 | 29.5/23.8 | 3.0/2.9 | 8.5/8.3 | 0.0832 | 157 |
| 18.0/15.0 | 180M | 2940/1465 | 34.2/28.5 | 2.3/2.2 | 6.8/5.8 | 0.1773 | 200 |
| 21.5/18.0 | 180L | 2930/1470 | 40.9/34.2 | 3.3/2.9 | 8.7/7.3 | 0.2532 | 268 |
| 27.0/22.0 | 200M | 2935/1470 | 48.5/39.9 | 2.3/1.8 | 8.3/6.7 | 0.2736 | 272 |
| 31.0/26.0 | 200L | 2940/1470 | 58.9/47.5 | 2.6/2.0 | 9.2/7.5 | 0.2936 | 282 |
| 38.0/32.0 | 225S/M | 2940/1470 | 77.0/56.0 | 2.1/1.8 | 7.5/6.1 | 0.6759 | 415 |
| 45.0/38.0 | 225S/M | 2930/1460 | 88.4/67.5 | 2.4/2.5 | 7.3/6.2 | 0.7866 | 455 |
| 55.0/46.0 | 250S/M | 2955/1470 | 106/81.7 | 2.8/2.2 | 9.2/6.8 | 0.9483 | 490 |
| 75.0/63.0 | 280S/M | 2945/1480 | 144/111 | 1.8/1.8 | 6.6/6.2 | 1.8495 | 750 |
| 87.0/73.0 | 280S/M | 2965/1480 | 164/127 | 1.8/1.7 | 7.5/7.0 | 2.2306 | 830 |
| 100/85.0 | 315S/M | 2970/1480 | 193/151 | 2.3/1.8 | 8.9/6.5 | 2.4097 | 995 |
| 120/100 | 315S/M | 2980/1485 | 233/1779 | 2.9/2.2 | 8.5/7.8 | 2.5985 | 1025 |

I/I_n = Locked rotor current

T/T_n = Locked rotor torque

I_f = Full load current

Notes:

- The motors can also operate to a 60Hz supply. The change in performance data can be obtained directly from the local WEG representative.
- The values shown herewith are subjected to change without prior notice.

| Output kW | Frame IEC | rpm mim ⁻¹ | I _n A 400V | T _l / T _n | I _l / I _n | Inertia J kgm ² | Weight kg |
|--|--------------|--------------------------|-----------------------------|---------------------------------|---------------------------------|----------------------------------|--------------|
| IV / VI Pole - 1500/1000 min ⁻¹ | | | | | | | |
| 0.65/038 | 90S | 1435/960 | 1.71/1.43 | 2.4/2.8 | 6.2/5.1 | 0.0045 | 30 |
| 0.90/0.55 | 100L | 1430/970 | 2.47/2.28 | 2.0/2.8 | 5.5/5.8 | 0.0103 | 41 |
| 1.30/0.90 | 100L | 1430/940 | 3.04/2.57 | 2.2/2.1 | 6.5/5.1 | 0.0103 | 41 |
| 1.7/1.1 | 112M | 1450/965 | 3.90/3.23 | 2.3/1.9 | 7.8/5.6 | 0.0175 | 54 |
| 2.3/1.5 | 112M | 1460/965 | 5.42/4.56 | 2.7/2.5 | 8.6/6.2 | 0.0185 | 57 |
| 2.7/1.8 | 132S | 1450/975 | 6.75/4.75 | 2.5/2.3 | 7.6/6.6 | 0.0292 | 66 |
| 3.1/2.0 | 132M | 1450/980 | 7.60/5.60 | 2.4/2.3 | 8.6/8.3 | 0.0437 | 85 |
| 4.3/2.8 | 160M | 1475/980 | 9.12/7.41 | 2.3/2.4 | 9.0/8.3 | 0.0643 | 117 |
| 6.6/4.3 | 160M | 1465/980 | 12.4/10.5 | 2.3/2.3 | 9.0/8.4 | 0.097 | 172 |
| 8.7/5.7 | 160L | 1470/980 | 17.1/13.3 | 2.5/2.3 | 8.5/8.5 | 0.1052 | 183 |
| 11.4/7.4 | 180M | 1480/985 | 23.8/18.1 | 3.4/2.6 | 8.9/6.1 | 0.2482 | 210 |
| 14/9.5 | 180L | 1470/980 | 26.6/21.9 | 2.7/2.7 | 7.6/5.6 | 0.2696 | 215 |
| 16.5/11 | 200M | 1480/985 | 33.3/25.7 | 2.3/2.1 | 8.9/6.8 | 0.3454 | 267 |
| 20/13.2 | 200L | 1480/985 | 38.0/31.4 | 2.3/2.2 | 9.8/7.2 | 0.3553 | 274 |
| 24/16 | 225S/M | 1480/968 | 45.6/34.2 | 3.1/2.3 | 9.6/6.9 | 0.9635 | 440 |
| 31/21 | 225S/M | 1475/985 | 54.2/40.9 | 2.3/2.1 | 7.6/6.2 | 1.0432 | 470 |
| 37/25 | 250S/M | 1480/985 | 70.3/53.2 | 3.2/2.2 | 9.6/6.1 | 1.156 | 515 |
| 47/32 | 250S/M | 1485/990 | 88.4/63.7 | 3.0/2.0 | 9.1/5.7 | 1.2687 | 520 |
| 66/45 | 280S/M | 1475/985 | 117/82.7 | 2.3/2.3 | 7.8/7.3 | 2.529 | 770 |
| 80/54 | 280S/M | 1480/990 | 140/108 | 2.0/3.2 | 6.6/9.1 | 2.9021 | 800 |
| 92/62 | 315S/M | 1485/990 | 185/121 | 3.0/2.7 | 9.1/8.1 | 3.3364 | 1060 |
| 110/75 | 315SM | 1475/985 | 191/137 | 2.7/1.6 | 8.5/5.1 | 4.6245 | 1260 |

 I/I_n = Locked rotor current T/T_n = Locked rotor torque I_f = Full load current

Notes:

- The motors can also operate to a 60Hz supply. The change in performance data can be obtained directly from the local WEG representative.
- The values shown herewith are subjected to change without prior notice.



Two Speed Explosion Proof Motors

Two Speed Explosion Proof Motors With Increased Safety Terminal Box

EEx d / EEx de II B T3

| Output kW | Frame IEC | rpm min ⁻¹ | I _n A 400V | T _l / T _n | I _l / I _n | Inertia J kgm ² | Weight kg |
|--------------|--------------|--------------------------|-----------------------------|---------------------------------|---------------------------------|----------------------------------|--------------|
|--------------|--------------|--------------------------|-----------------------------|---------------------------------|---------------------------------|----------------------------------|--------------|

VI / VIII Pole - 1500/750 min⁻¹

| | | | | | | | |
|------------------|-------------|-----------------|------------------|----------------|----------------|---------------|------------|
| 0.50/0.35 | 90L | 1375/670 | 1.43/1.24 | 1.4/1.4 | 3.2/2.6 | 0.0045 | 30 |
| 0.70/0.50 | 100L | 1370/680 | 2.19/1.71 | 1.6/1.4 | 4.0/2.9 | 0.0103 | 41 |
| 1.10/0.70 | 100L | 1400/700 | 2.47/2.28 | 1.7/1.5 | 5.1/2.5 | 0.0125 | 45 |
| 1.50/0.90 | 112M | 1410/705 | 3.14/2.57 | 2.5/2.2 | 6.7/5.1 | 0.0157 | 58 |
| 1.90.1.40 | 132S | 1420/720 | 4.00/3.80 | 3.5/2.6 | 8.2/6.4 | 0.0461 | 73 |
| 3.60/1.80 | 132M | 1410/725 | 7.22/5.42 | 3.3/3.9 | 7.7/7.7 | 0.054 | 84 |
| 5.0/2.50 | 160M | 1465/735 | 9.50/7.41 | 2.2/2.2 | 9.3/6.4 | 0.0737 | 137 |
| 7.0/3.50 | 160M | 1455/725 | 13.3/9.31 | 1.9/1.9 | 8.0/6.0 | 0.0861 | 144 |
| 8.0/4.0 | 160L | 1460/730 | 15.2/11.4 | 1.9/2.1 | 8.7/6.4 | 0.097 | 172 |
| 10/5.1 | 180M | 1435/730 | 18.1/13.3 | 2.0/2.3 | 8.0/8.3 | 0.2267 | 195 |
| 18/11 | 180L | 1455/725 | 33.3/22.8 | 25.3/2.5 | 8.7/8.0 | 0.2996 | 228 |
| 21.5/14 | 200M | 1460/730 | 38.0/27.6 | 2.2/2.0 | 7.5/6.5 | 0.3015 | 240 |
| 17/17 | 200L | 1455/730 | 47.5/33.3 | 2.2/2.0 | 7.5/6.5 | 0.3554 | 270 |
| 32/32 | 225S/M | 1455/725 | 56.1/41.8 | 1.8/1.8 | 8.1/6.7 | 0.8538 | 415 |
| 37/25 | 250S/M | 1455/725 | 63.7/46.7 | 1.8/1.6 | 7.7/6.3 | 1.1589 | 523 |
| 47/32 | 250S/M | 1465/730 | 79.8/60.0 | 2.4/2.1 | 9.2/8.3 | 1.2921 | 550 |
| 56/38 | 280S/M | 1480/740 | 99.0/76.0 | 1.7/1.5 | 6.6/6.2 | 2.4920 | 765 |
| 67/46 | 280S/M | 1475/740 | 115/88.4 | 1.7/1.4 | 8.3/7.2 | 2.8625 | 820 |
| 82/56 | 315S/M | 1485/745 | 143/114 | 2.7/2.3 | 8.9/7.5 | 3.8762 | 1018 |
| 115/78 | 315S/M | 1485/745 | 196/152 | 2.5/1.9 | 7.5/7.8 | 4.6125 | 1132 |

I/I_n = Locked rotor current

T/T_n = Locked rotor torque

I_l = Full load current

Notes:

- The motors can also operate to a 60Hz supply. The change in performance data can be obtained directly from the local WEG representative.
- The values shown herewith are subjected to change without prior notice.

STANDARD FEATURES

- Three phase, Multivoltage, 50Hz or 60Hz
- Cast iron frame 63 up to 160
- Output range from 0,18 to 13,5kW (II and IV poles)
- Class of temperature T1 / T2 / T3 / T4
- Class "F" insulation with ΔT 70K (as per VIK standards)
- Design N
- Thermistors 110°C – 1 per phase
- Squirrel cage rotor (aluminium die cast)
- Aluminium fan
- Degree of protection IP55 or IP56
- Plastic threaded plug
- Increased safety terminal box
- Earth lug inside the terminal box
- V-ring seal
- Grease fitting for frame 160
- Stainless steel nameplate identifying: standards, classification, temperature code, certification number
- Epoxy based paint plan RAL 5010

ACCORDING TO ATEX DIRECTIVE-PTB

**CE**

VDE-UK

OPTIONAL FEATURES

- Epoxy resin impregnation
- Other paint options
- Cable gland

CLASSIFICATION

IEC Standard:
Zone 1; Group IIC

CENELEC Standard:
Group IIC; Category 2

Note: 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: EEx e motors are suitable to operate also in Group IIA and IIB and Category 3.

CERTIFICATION

WEG increased safety motors are certified by PTB – Physikalisch - Technische Bundesanstalt. The PTB certificates of conformity for explosion proof in increased safety enclosure "e" as per EN50014/EN50019 are:

EEx e – Increased safety motors (class of temperature T1/T2/T3/T4)

| Frames | Certificate number |
|--------|--------------------|
| 63 | PTB 01 ATEX 3204 |
| 71 | PTB 01 ATEX 3205 |
| 80 | PTB 01 ATEX 3206 |
| 90 | PTB 01 ATEX 3207 |
| 100 | PTB 01 ATEX 3208 |
| 112 | PTB 01 ATEX 3209 |
| 132 | PTB 01 ATEX 3210 |
| 160 | PTB 03 ATEX 3006 |

WEG increased safety motors also meet ATEX Directive 94/9/EC and UK standards.

Increased Safety Multivoltage Motors
EE_x e IIC T1 / T2 / T3 / T4

| | | Frame IEC | C _n (Nm) | I/I _n | T/T _n | T _b /T _n | Inertia J Kgm ² | Weight Kg | Sound dB (A) | t _E Time | | | | 380V - 420V | | I _n (A) | Data Sheet PTB-ATEX | | | | | | | | | | |
|--------|----|--------------|------------------------|------------------|------------------|--------------------------------|-------------------------------|--------------|-----------------|---------------------|----|----|----|----------------------|----------------------------|-----------------------|------------------------|--|--|--|--|--|--|--|--|--|--|
| Output | | | | | | | | | | t _E Time | | | | % of full load | | | | | | | | | | | | | |
| KW | HP | | | | | | | | | T1 | T2 | T3 | T4 | Efficiency η 100% | Power Factor Cos φ 100% | | | | | | | | | | | | |

 II Pole - 3000 min⁻¹

| | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|-----|-----|---------|------|----|----|----|----|---|------|------|------|------|---------|
| 0,18 | 0,25 | 63 | 0,63 | 4,40 | 2,7 | 2,7 | 0,00012 | 7 | 52 | 35 | 35 | 35 | - | 2750 | 66,2 | 0,77 | 0,51 | 3204/05 |
| 0,25 | 0,33 | 63 | 0,87 | 4,50 | 2,8 | 3,3 | 0,00016 | 7 | 52 | 23 | 23 | 19 | - | 2735 | 66,8 | 0,72 | 0,75 | 3204/01 |
| 0,37 | 0,5 | 71 | 1,26 | 5,80 | 3,1 | 3,1 | 0,00033 | 8 | 52 | 24 | 24 | 24 | 9 | 2810 | 73,9 | 0,83 | 0,87 | 3205/01 |
| 0,55 | 0,75 | 71 | 1,88 | 6,30 | 2,9 | 3,3 | 0,00045 | 11 | 56 | 18 | 18 | 15 | - | 2800 | 75,7 | 0,86 | 1,22 | 3205/05 |
| 0,75 | 1 | 80 | 2,53 | 5,90 | 3,0 | 3,2 | 0,00079 | 14 | 59 | 20 | 20 | 10 | - | 2830 | 75,0 | 0,87 | 1,66 | 3206/01 |
| 1,1 | 1,5 | 80 | 3,74 | 6,10 | 2,8 | 2,9 | 0,00096 | 15,5 | 59 | 18 | 18 | 7* | - | 2815 | 79,0 | 0,82 | 2,45 | 3206/07 |
| 1,3 | 1,77 | 90S | 4,35 | 6,90 | 2,7 | 2,8 | 0,00205 | 20 | 65 | 14 | 14 | 11 | - | 2855 | 77,9 | 0,86 | 2,80 | 3207/07 |
| 1,85 | 2,51 | 90L | 6,20 | 7,10 | 2,7 | 2,7 | 0,00266 | 24 | 65 | 11 | 11 | 7 | - | 2850 | 81,6 | 0,85 | 3,85 | 3207/01 |
| 2,5 | 3,4 | 100L | 8,31 | 7,50 | 2,3 | 2,7 | 0,00616 | 31 | 67 | 10 | 10 | 8 | - | 2875 | 77,7 | 0,91 | 5,10 | 3208/01 |
| 3,3 | 4,5 | 112M | 10,9 | 8,10 | 2,3 | 2,9 | 0,00765 | 42 | 64 | 18 | 18 | 6 | - | 2890 | 84,2 | 0,87 | 6,50 | 3209/01 |
| 4,6 | 6,25 | 132S | 15,1 | 7,40 | 2,2 | 2,7 | 0,02243 | 70 | 68 | 17 | 17 | 13 | - | 2905 | 81,1 | 0,93 | 8,78 | 3210/09 |
| 5,5 | 7,5 | 132S | 18,1 | 7,70 | 2,1 | 2,8 | 0,02617 | 71 | 68 | 11 | 11 | 9 | - | 2900 | 83,0 | 0,92 | 10,4 | 3210/01 |
| 6,5 | 8,8 | 132S | 21,6 | 7,70 | 2,1 | 2,7 | 0,02430 | 67 | 68 | 9 | 9 | - | - | 2880 | 83,8 | 0,91 | 12,3 | 3210/03 |

 IV Pole - 1500 min⁻¹

| | | | | | | | | | | | | | | | | | | |
|------|------|------|------|-----|-----|-----|---------|-----|----|----|----|----|----|------|------|------|------|---------|
| 0,18 | 0,25 | 63 | 1,22 | 4,1 | 2,1 | 2,2 | 0,00056 | 8 | 44 | 24 | 24 | 24 | - | 1405 | 63,5 | 0,66 | 0,62 | 3204/03 |
| 0,25 | 0,33 | 71 | 1,69 | 5,0 | 2,8 | 2,8 | 0,00079 | 11 | 43 | 60 | 60 | 60 | 30 | 1415 | 73,7 | 0,68 | 0,72 | 3205/07 |
| 0,37 | 0,5 | 71 | 2,54 | 4,6 | 2,5 | 2,5 | 0,00079 | 11 | 43 | 40 | 40 | 40 | 10 | 1390 | 75,4 | 0,65 | 1,09 | 3205/03 |
| 0,55 | 0,75 | 80 | 3,69 | 6,0 | 2,3 | 2,4 | 0,00242 | 14 | 44 | 22 | 22 | 22 | - | 1425 | 78,8 | 0,73 | 1,38 | 3206/05 |
| 0,75 | 1 | 80 | 5,06 | 5,9 | 2,2 | 2,7 | 0,00294 | 15 | 44 | 13 | 13 | 13 | - | 1415 | 75,0 | 0,82 | 1,76 | 3206/03 |
| 1 | 1,36 | 90S | 6,73 | 6,4 | 2,7 | 2,8 | 0,00504 | 20 | 47 | 17 | 17 | 17 | - | 1420 | 78,4 | 0,80 | 2,30 | 3207/05 |
| 1,35 | 1,83 | 90L | 9,12 | 6,7 | 2,6 | 3,0 | 0,00672 | 23 | 47 | 15 | 15 | 15 | - | 1415 | 79,6 | 0,83 | 2,95 | 3207/03 |
| 2 | 2,72 | 100L | 13,5 | 6,3 | 2,3 | 2,5 | 0,00765 | 28 | 51 | 17 | 17 | 17 | - | 1415 | 80,9 | 0,82 | 4,35 | 3208/05 |
| 2,5 | 3,4 | 100L | 16,9 | 6,3 | 2,4 | 2,6 | 0,01072 | 36 | 51 | 14 | 14 | 14 | - | 1410 | 79,5 | 0,84 | 5,40 | 3208/03 |
| 3,6 | 4,9 | 112M | 24,1 | 7,2 | 2,3 | 2,8 | 0,01875 | 46 | 55 | 11 | 11 | 10 | - | 1430 | 82,6 | 0,85 | 7,40 | 3209/03 |
| 5 | 6,8 | 132S | 32,7 | 8,4 | 2,2 | 2,8 | 0,05039 | 67 | 58 | 7 | 7 | 7 | - | 1460 | 84,8 | 0,86 | 9,90 | 3210/05 |
| 6,8 | 9,24 | 132M | 44,5 | 8,2 | 2,2 | 2,8 | 0,05815 | 73 | 58 | 8 | 8 | 7 | - | 1460 | 85,2 | 0,86 | 13,4 | 3210/07 |
| 13,5 | 18,3 | 160L | 87,7 | 7,8 | 2,0 | 3,0 | 0,13048 | 130 | 62 | 11 | 11 | 7 | - | 1470 | 86,2 | 0,87 | 26,0 | 3006/01 |

 C_n = Full load torque

 I/I_n = Locked rotor current

 T/T_n = Locked rotor torque

 T_b/T_n = Breakdown torque

 I_n = Full load current

Standard voltage, connection and frequency:

218-242V Δ 50Hz 380-420V Δ 50Hz

380-420V Y 50Hz 655-725V Y 50Hz

Intermediate voltage ratings may also be supplied.

Notes:

* According to VIK standards only for classes of temperature T1 and T2.

- The values in the table above are related to 400V.

- The motors can also operate at a 60Hz supply. The change in performance data can be obtained directly from the local WEG representative.

- The values shown herewith are subjected to change without prior notice.

STANDARD FEATURES

- Three phase, Multivoltage, 50Hz or 60Hz
- Cast iron frame 63 up to 315S/M
- Output range from 0,12 to 160kW (II, IV, VI and VIII poles)
- Class of temperature T3
- Class "F" insulation with ΔT 80K
- Design N
- Thermistors 155°C – 1 per phase
- Squirrel cage rotor (aluminium die cast)
- Aluminum fan
- Degree of protection IP55 or IP56
- Plastic threaded plug
- Increased safety terminal box
- Earth lug inside the terminal box
- V-ring seal
- Grease fitting from frame 160 and above
- Additional stainless steel nameplate identifying: standards, classification, temperature code, certification number
- Epoxy based paint plan: Standard Efficiency (EFFB) - RAL 5010
Premium Efficiency (EFFI) - RAL 5009
Top Premium Efficiency (exceeds EFFI) - RAL 6021

ACCORDING TO ATEX DIRECTIVE -PTB



OPTIONAL FEATURES

- Epoxy resin impregnation
- Other paint options
- Cable gland

CLASSIFICATION

IEC Standard:
Zone 2; Group IIC

CENELEC Standard:
Group IIC; Category 3

Note: 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 94/9/EC certified by PTB - Physikalisch-Techhnische Bundesanstalt as per EN50014/EN50021.



Non Sparking Multivoltage Motors
EEEx nA IIC T3

| Output | | Frame IEC | C _n (Nm) | I/I _n | T/T _n | T _b /T _n | Inertia J Kgm ² | Allowable locket rortor time Hot/Cold (s) | Weight Kg | Sound dB (A) | 400V | | | | | | | | I _n (A) | | | | | | | | |
|--------|----|--------------|------------------------|------------------|------------------|--------------------------------|-------------------------------|--|--------------|-----------------|----------------|----|-----|--------------------|----|-----|--|--|-----------------------|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | % of full load | | | | | | | | | | | | | | | | |
| KW | HP | | | | | | | | | | Efficiency η | | | Power Factor Cos φ | | | | | | | | | | | | | |
| | | | | | | | | | | | 50 | 75 | 100 | 50 | 75 | 100 | | | | | | | | | | | |

II Pole - 3000 min⁻¹

| | | | | | | | | | | | | | | | | | | |
|------|------|--------|------|------|-----|-----|---------|--------|------|----|------|------|------|------|------|------|------|------|
| 0,12 | 0,16 | 63 | 0,41 | 5,00 | 2,8 | 3,2 | 0,00013 | 26/57 | 6 | 52 | 2820 | 49,0 | 57,0 | 60,5 | 0,52 | 0,63 | 0,70 | 0,41 |
| 0,18 | 0,25 | 63 | 0,63 | 4,20 | 2,7 | 2,7 | 0,00013 | 36/79 | 7 | 52 | 2735 | 62,0 | 68,0 | 68,5 | 0,60 | 0,73 | 0,82 | 0,46 |
| 0,25 | 0,33 | 63 | 0,86 | 4,50 | 2,8 | 3,3 | 0,00017 | 25/55 | 7 | 52 | 2790 | 63,7 | 69,1 | 70,4 | 0,58 | 0,70 | 0,78 | 0,66 |
| 0,37 | 0,5 | 71 | 1,26 | 5,50 | 3,1 | 3,3 | 0,00034 | 24/53 | 10 | 56 | 2810 | 67,2 | 72,0 | 73,6 | 0,62 | 0,73 | 0,81 | 0,90 |
| 0,55 | 0,75 | 71 | 1,88 | 5,50 | 2,9 | 3,3 | 0,00045 | 16/35 | 11 | 56 | 2800 | 72,2 | 75,8 | 76,2 | 0,68 | 0,78 | 0,85 | 1,23 |
| 0,75 | 1 | 80 | 2,55 | 5,80 | 2,9 | 3,1 | 0,00079 | 25/55 | 14 | 59 | 2805 | 75,5 | 80,0 | 79,9 | 0,76 | 0,84 | 0,87 | 1,56 |
| 1,1 | 1,5 | 80 | 3,73 | 5,70 | 2,7 | 2,9 | 0,00091 | 15/33 | 15 | 59 | 2820 | 77,1 | 80,2 | 79,7 | 0,70 | 0,80 | 0,86 | 2,32 |
| 1,5 | 2 | 90S | 5,01 | 6,50 | 2,6 | 3,2 | 0,00206 | 17/37 | 20 | 68 | 2860 | 81,7 | 83,7 | 83,6 | 0,72 | 0,81 | 0,85 | 3,05 |
| 2,2 | 3 | 90L | 7,40 | 6,60 | 2,8 | 3,0 | 0,00242 | 9/20 | 22 | 68 | 2840 | 82,2 | 83,7 | 83,4 | 0,67 | 0,78 | 0,84 | 4,53 |
| 3 | 4 | 100L | 9,92 | 6,80 | 2,6 | 2,8 | 0,00617 | 9/20 | 31 | 67 | 2890 | 83,7 | 85,8 | 85,6 | 0,75 | 0,83 | 0,87 | 5,81 |
| 4 | 5,5 | 112M | 13,1 | 7,80 | 2,7 | 3,1 | 0,00842 | 16/35 | 42 | 64 | 2910 | 86,4 | 87,5 | 87,5 | 0,77 | 0,85 | 0,88 | 7,41 |
| 5,5 | 7,5 | 132S | 17,9 | 8,00 | 2,7 | 3,2 | 0,02056 | 17/37 | 61 | 68 | 2935 | 83,9 | 87,0 | 88,3 | 0,75 | 0,83 | 0,87 | 10,3 |
| 7,5 | 10 | 132S | 24,5 | 6,80 | 2,4 | 2,8 | 0,02430 | 11/24 | 67 | 68 | 2920 | 87,0 | 89,0 | 89,3 | 0,78 | 0,86 | 0,89 | 13,6 |
| 11 | 15 | 160M | 35,6 | 8,30 | 2,6 | 3,1 | 0,04707 | 15/33 | 104 | 70 | 2950 | 88,0 | 90,2 | 90,3 | 0,78 | 0,85 | 0,88 | 19,8 |
| 15 | 20 | 160M | 48,7 | 8,30 | 2,5 | 3,2 | 0,05295 | 12/26 | 111 | 70 | 2945 | 89,6 | 91,3 | 91,2 | 0,77 | 0,85 | 0,88 | 26,9 |
| 18,5 | 25 | 160L | 60,0 | 8,20 | 2,6 | 3,3 | 0,06472 | 11/24 | 126 | 70 | 2945 | 90,6 | 92,0 | 91,7 | 0,78 | 0,85 | 0,88 | 32,9 |
| 22 | 30 | 180M | 71,3 | 8,20 | 2,8 | 2,8 | 0,14364 | 13/29 | 172 | 70 | 2950 | 91,1 | 92,4 | 92,1 | 0,75 | 0,83 | 0,87 | 39,5 |
| 30 | 40 | 200L | 96,8 | 7,90 | 2,8 | 2,6 | 0,20630 | 19/42 | 239 | 74 | 2960 | 90,0 | 92,0 | 92,7 | 0,78 | 0,86 | 0,88 | 53,1 |
| 37 | 50 | 200L | 119 | 7,60 | 2,8 | 2,9 | 0,22424 | 19/42 | 253 | 74 | 2960 | 92,4 | 93,0 | 93,0 | 0,80 | 0,86 | 0,88 | 63,8 |
| 45 | 60 | 225S/M | 145 | 8,10 | 2,6 | 3,0 | 0,39465 | 21/46 | 411 | 78 | 2965 | 91,6 | 93,3 | 93,6 | 0,85 | 0,91 | 0,92 | 75,4 |
| 55 | 75 | 250S/M | 178 | 8,50 | 2,7 | 3,0 | 0,55609 | 17/37 | 490 | 78 | 2960 | 92,1 | 93,5 | 93,8 | 0,87 | 0,92 | 0,93 | 90,8 |
| 75 | 100 | 280S/M | 241 | 7,50 | 2,3 | 2,8 | 1,08257 | 49/108 | 655 | 79 | 2975 | 91,4 | 93,4 | 94,2 | 0,81 | 0,87 | 0,89 | 129 |
| 90 | 125 | 280S/M | 291 | 8,30 | 2,4 | 2,8 | 1,27084 | 42/92 | 705 | 79 | 2960 | 92,0 | 93,8 | 94,5 | 0,81 | 0,87 | 0,89 | 154 |
| 110 | 150 | 315S/M | 354 | 7,60 | 2,3 | 2,5 | 1,41204 | 48/106 | 823 | 81 | 2970 | 92,9 | 94,4 | 94,9 | 0,84 | 0,89 | 0,90 | 186 |
| 132 | 175 | 315S/M | 424 | 7,70 | 2,4 | 2,8 | 1,74151 | 41/90 | 937 | 81 | 2975 | 92,6 | 94,5 | 95,0 | 0,84 | 0,90 | 0,91 | 220 |
| 160 | 220 | 315S/M | 515 | 9,00 | 2,2 | 2,4 | 2,11806 | 34/75 | 1010 | 81 | 2970 | 93,0 | 94,8 | 95,4 | 0,81 | 0,86 | 0,89 | 272 |

IV Pole - 1500 min⁻¹

| | | | | | | | | | | | | | | | | | | |
|------|------|--------|------|------|-----|-----|---------|--------|------|----|------|------|------|------|------|------|------|------|
| 0,12 | 0,16 | 63 | 0,84 | 5,00 | 2,4 | 2,5 | 0,00045 | 14/31 | 7 | 44 | 1370 | 44,0 | 54,0 | 59,0 | 0,45 | 0,55 | 0,65 | 0,45 |
| 0,18 | 0,25 | 63 | 1,24 | 4,00 | 2,1 | 2,2 | 0,00057 | 23/51 | 8 | 44 | 1390 | 53,8 | 59,5 | 61,0 | 0,59 | 0,68 | 0,75 | 0,57 |
| 0,25 | 0,33 | 71 | 1,69 | 4,50 | 3,0 | 3,1 | 0,00079 | 48/106 | 11 | 43 | 1415 | 68,0 | 73,0 | 74,0 | 0,50 | 0,63 | 0,71 | 0,69 |
| 0,37 | 0,5 | 71 | 2,53 | 4,50 | 2,7 | 2,8 | 0,00079 | 43/95 | 11 | 43 | 1400 | 68,5 | 72,0 | 73,6 | 0,50 | 0,62 | 0,70 | 1,04 |
| 0,55 | 0,75 | 80 | 3,65 | 5,50 | 2,5 | 2,7 | 0,00242 | 20/44 | 14 | 44 | 1440 | 69,0 | 74,0 | 75,0 | 0,58 | 0,70 | 0,78 | 1,36 |
| 0,75 | 1 | 80 | 5,06 | 5,50 | 2,4 | 2,6 | 0,00294 | 16/35 | 15 | 44 | 1415 | 76,0 | 78,6 | 76,2 | 0,62 | 0,74 | 0,83 | 1,71 |
| 1,1 | 1,5 | 90S | 7,30 | 6,50 | 3,0 | 2,8 | 0,00505 | 16/35 | 20 | 47 | 1440 | 76,0 | 80,0 | 80,6 | 0,57 | 0,69 | 0,77 | 2,56 |
| 1,5 | 2 | 90L | 10,1 | 5,90 | 2,8 | 2,7 | 0,00673 | 14/31 | 23 | 47 | 1420 | 80,3 | 82,3 | 81,7 | 0,64 | 0,77 | 0,83 | 3,19 |
| 2,2 | 3 | 100L | 14,7 | 6,70 | 2,8 | 3,0 | 0,00842 | 9/20 | 31 | 51 | 1430 | 79,8 | 82,3 | 83,0 | 0,64 | 0,77 | 0,83 | 4,61 |
| 3 | 4 | 100L | 20,2 | 6,50 | 2,8 | 2,7 | 0,00995 | 11/24 | 34 | 51 | 1420 | 83,8 | 85,4 | 84,7 | 0,68 | 0,79 | 0,86 | 5,94 |
| 4 | 5,5 | 112M | 26,5 | 7,00 | 2,7 | 2,8 | 0,01875 | 14/31 | 46 | 55 | 1440 | 86,9 | 87,8 | 87,1 | 0,70 | 0,81 | 0,87 | 7,62 |
| 5,5 | 7,5 | 132S | 35,7 | 8,00 | 2,4 | 3,0 | 0,04264 | 10/22 | 60 | 58 | 1470 | 85,4 | 87,7 | 88,5 | 0,70 | 0,80 | 0,85 | 10,6 |
| 7,5 | 10 | 132M | 48,7 | 8,00 | 2,5 | 2,8 | 0,05040 | 7/15 | 67 | 58 | 1470 | 86,4 | 88,4 | 88,6 | 0,70 | 0,80 | 0,86 | 14,2 |
| 11 | 15 | 160M | 71,5 | 6,00 | 2,2 | 2,5 | 0,08030 | 16/35 | 105 | 62 | 1470 | 87,8 | 89,4 | 89,9 | 0,70 | 0,79 | 0,84 | 21,0 |
| 15 | 20 | 160L | 98,2 | 6,00 | 2,2 | 2,4 | 0,10037 | 12/26 | 121 | 62 | 1460 | 89,0 | 90,4 | 90,6 | 0,72 | 0,81 | 0,84 | 28,4 |
| 18,5 | 25 | 180M | 120 | 7,50 | 2,7 | 3,0 | 0,16146 | 11/24 | 160 | 64 | 1475 | 89,8 | 91,5 | 92,1 | 0,65 | 0,75 | 0,82 | 35,2 |
| 22 | 30 | 180L | 143 | 7,50 | 2,7 | 2,8 | 0,19733 | 14/31 | 183 | 64 | 1470 | 91,6 | 92,5 | 92,4 | 0,68 | 0,77 | 0,81 | 42,4 |
| 30 | 40 | 200L | 194 | 6,50 | 2,2 | 2,5 | 0,33096 | 14/31 | 233 | 67 | 1475 | 91,8 | 93,0 | 93,0 | 0,75 | 0,82 | 0,85 | 54,8 |
| 37 | 50 | 225S/M | 239 | 7,40 | 2,3 | 2,7 | 0,62988 | 20/44 | 350 | 70 | 1480 | 91,6 | 92,2 | 92,8 | 0,76 | 0,85 | 0,88 | 65,4 |
| 45 | 60 | 225S/M | 292 | 7,00 | 2,3 | 2,5 | 0,76986 | 12/26 | 382 | 70 | 1475 | 91,0 | 92,9 | 93,5 | 0,81 | 0,87 | 0,88 | 78,9 |
| 55 | 75 | 250S/M | 356 | 7,50 | 2,5 | 2,6 | 0,97982 | 16/35 | 460 | 70 | 1475 | 92,7 | 93,1 | 93,4 | 0,80 | 0,86 | 0,90 | 94,4 |
| 75 | 100 | 280S/M | 483 | 6,70 | 2,1 | 2,4 | 2,32859 | 40/88 | 735 | 74 | 1485 | 92,4 | 93,8 | 94,3 | 0,83 | 0,88 | 0,90 | 128 |
| 90 | 125 | 280S/M | 579 | 7,10 | 2,4 | 2,7 | 2,81036 | 31/68 | 802 | 74 | 1485 | 92,3 | 93,7 | 94,2 | 0,81 | 0,87 | 0,89 | 155 |
| 110 | 150 | 315S/M | 708 | 7,70 | 2,3 | 2,6 | 2,81036 | 28/62 | 865 | 77 | 1485 | 92,5 | 94,0 | 94,3 | 0,78 | 0,84 | 0,88 | 191 |
| 132 | 175 | 315S/M | 852 | 7,30 | 2,2 | 2,6 | 3,77392 | 31/68 | 1010 | 77 | 1480 | 93,3 | 94,8 | 95,1 | 0,80 | 0,85 | 0,88 | 228 |
| 160 | 220 | 315S/M | 1029 | 7,00 | 2,4 | 2,7 | 3,77392 | 22/48 | 1010 | 77 | 1485 | 93,3 | 95,1 | 95,5 | 0,78 | 0,85 | 0,87 | 278 |

C_n = Full load torque

<p

Improved
Efficiency
EFF2

| | | 380V | | | | | | 415V | | | | | | I _n (A) | | | |
|--------|--------------------------|----------------|----|-----|--------------------|----|-----|-----------------------|--------------------------|----------------|----|-----|--------------------|-----------------------|-----|-----------------------|--|
| Output | rpm min ⁻¹ | % of full load | | | | | | I _n (A) | rpm min ⁻¹ | % of full load | | | | | | I _n (A) | |
| | | Efficiency η | | | Power Factor Cos φ | | | | | Efficiency η | | | Power Factor Cos φ | | | | |
| KW | HP | 50 | 75 | 100 | 50 | 75 | 100 | | | 50 | 75 | 100 | 50 | 75 | 100 | | |

II Pole - 3000 min⁻¹

| | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0,12 | 0,16 | 2800 | 50,0 | 58,0 | 62,0 | 0,56 | 0,68 | 0,76 | 0,39 | 2835 | 47,0 | 55,0 | 60,0 | 0,49 | 0,61 | 0,68 | 0,41 |
| 0,18 | 0,25 | 2710 | 61,9 | 68,0 | 68,2 | 0,63 | 0,76 | 0,84 | 0,48 | 2760 | 59,0 | 67,3 | 68,6 | 0,58 | 0,70 | 0,78 | 0,47 |
| 0,25 | 0,33 | 2740 | 63,9 | 68,9 | 69,5 | 0,62 | 0,72 | 0,82 | 0,67 | 2800 | 60,6 | 67,0 | 69,8 | 0,55 | 0,67 | 0,75 | 0,66 |
| 0,37 | 0,5 | 2790 | 68,8 | 72,8 | 73,5 | 0,66 | 0,77 | 0,84 | 0,91 | 2825 | 66,5 | 71,8 | 73,5 | 0,60 | 0,71 | 0,79 | 0,89 |
| 0,55 | 0,75 | 2770 | 73,1 | 76,1 | 75,2 | 0,70 | 0,86 | 0,87 | 1,28 | 2820 | 70,0 | 75,7 | 76,3 | 0,63 | 0,75 | 0,84 | 1,19 |
| 0,75 | 1 | 2770 | 78,5 | 79,7 | 78,5 | 0,78 | 0,86 | 0,89 | 1,63 | 2825 | 77,3 | 80,6 | 79,8 | 0,72 | 0,81 | 0,87 | 1,50 |
| 1,1 | 1,5 | 2800 | 79,9 | 81,1 | 82,1 | 0,73 | 0,83 | 0,89 | 2,29 | 2840 | 76,6 | 80,0 | 79,8 | 0,64 | 0,75 | 0,85 | 2,26 |
| 1,5 | 2 | 2850 | 81,8 | 83,8 | 83,0 | 0,74 | 0,83 | 0,87 | 3,16 | 2870 | 80,8 | 83,7 | 83,8 | 0,68 | 0,78 | 0,83 | 3,00 |
| 2,2 | 3 | 2830 | 83,1 | 83,5 | 83,3 | 0,70 | 0,80 | 0,87 | 4,61 | 2870 | 82,2 | 84,4 | 84,3 | 0,64 | 0,75 | 0,82 | 4,43 |
| 3 | 4 | 2880 | 84,2 | 85,7 | 85,1 | 0,79 | 0,85 | 0,88 | 6,09 | 2910 | 82,6 | 85,0 | 85,5 | 0,74 | 0,82 | 0,87 | 5,61 |
| 4 | 5,5 | 2890 | 87,0 | 87,5 | 87,5 | 0,80 | 0,86 | 0,89 | 7,74 | 2915 | 85,0 | 87,4 | 88,2 | 0,73 | 0,82 | 0,86 | 7,34 |
| 5,5 | 7,5 | 2930 | 84,4 | 88,7 | 88,4 | 0,77 | 0,85 | 0,88 | 10,7 | 2945 | 83,5 | 86,8 | 88,1 | 0,72 | 0,81 | 0,86 | 10,1 |
| 7,5 | 10 | 2910 | 86,9 | 88,7 | 88,5 | 0,81 | 0,87 | 0,90 | 14,3 | 2930 | 86,4 | 88,8 | 89,2 | 0,75 | 0,83 | 0,87 | 13,4 |
| 11 | 15 | 2945 | 88,1 | 90,0 | 90,3 | 0,80 | 0,86 | 0,89 | 20,7 | 2955 | 87,5 | 89,4 | 91,3 | 0,75 | 0,83 | 0,87 | 19,3 |
| 15 | 20 | 2935 | 90,1 | 91,4 | 91,1 | 0,82 | 0,87 | 0,89 | 28,0 | 2960 | 89,4 | 91,2 | 91,9 | 0,74 | 0,82 | 0,88 | 25,8 |
| 18,5 | 25 | 2940 | 90,9 | 92,0 | 91,6 | 0,81 | 0,86 | 0,89 | 34,3 | 2960 | 90,5 | 92,7 | 92,6 | 0,74 | 0,82 | 0,87 | 31,9 |
| 22 | 30 | 2940 | 91,5 | 92,5 | 92,1 | 0,77 | 0,85 | 0,88 | 41,2 | 2960 | 90,7 | 92,2 | 92,5 | 0,71 | 0,80 | 0,86 | 38,5 |
| 30 | 40 | 2950 | 90,0 | 92,0 | 92,7 | 0,80 | 0,87 | 0,89 | 55,2 | 2965 | 89,5 | 91,7 | 92,5 | 0,75 | 0,84 | 0,87 | 51,9 |
| 37 | 50 | 2960 | 92,4 | 93,0 | 93,0 | 0,82 | 0,87 | 0,89 | 66,4 | 2965 | 91,0 | 92,4 | 93,0 | 0,73 | 0,82 | 0,86 | 62,4 |
| 45 | 60 | 2960 | 91,9 | 93,4 | 93,5 | 0,88 | 0,92 | 0,93 | 78,6 | 2970 | 91,5 | 93,3 | 93,9 | 0,83 | 0,91 | 0,92 | 72,5 |
| 55 | 75 | 2950 | 91,8 | 93,2 | 93,5 | 0,89 | 0,93 | 0,93 | 96,1 | 2965 | 92,0 | 93,5 | 94,0 | 0,86 | 0,89 | 0,93 | 87,5 |
| 75 | 100 | 2970 | 91,9 | 93,6 | 94,3 | 0,84 | 0,88 | 0,90 | 134 | 2980 | 91,0 | 93,2 | 94,2 | 0,79 | 0,85 | 0,88 | 126 |
| 90 | 125 | 2955 | 92,3 | 93,9 | 94,5 | 0,85 | 0,89 | 0,90 | 161 | 2975 | 91,5 | 94,1 | 94,5 | 0,79 | 0,86 | 0,89 | 149 |
| 110 | 150 | 2965 | 93,0 | 94,4 | 94,9 | 0,86 | 0,90 | 0,91 | 194 | 2980 | 91,9 | 94,4 | 94,8 | 0,81 | 0,87 | 0,89 | 181 |
| 132 | 180 | 2970 | 92,4 | 94,4 | 94,8 | 0,86 | 0,90 | 0,91 | 232 | 2975 | 92,5 | 94,8 | 95,2 | 0,82 | 0,89 | 0,90 | 214 |
| 160 | 220 | 2960 | 93,2 | 95,0 | 95,4 | 0,83 | 0,89 | 0,90 | 283 | 2980 | 93,0 | 95,0 | 95,3 | 0,78 | 0,85 | 0,88 | 265 |

IV Pole - 1500 min⁻¹

| | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0,12 | 0,16 | 1360 | 46,0 | 54,0 | 58,0 | 0,48 | 0,59 | 0,68 | 0,46 | 1380 | 43,0 | 53,5 | 58,0 | 0,40 | 0,50 | 0,60 | 0,48 |
| 0,18 | 0,25 | 1370 | 55,8 | 60,5 | 60,7 | 0,62 | 0,72 | 0,80 | 0,56 | 1400 | 51,0 | 55,0 | 60,3 | 0,57 | 0,65 | 0,72 | 0,58 |
| 0,25 | 0,33 | 1400 | 71,8 | 73,8 | 73,5 | 0,53 | 0,65 | 0,72 | 0,72 | 1425 | 67,0 | 72,5 | 73,5 | 0,50 | 0,60 | 0,68 | 0,70 |
| 0,37 | 0,5 | 1390 | 70,0 | 73,0 | 73,5 | 0,52 | 0,65 | 0,75 | 1,02 | 1410 | 65,0 | 71,6 | 73,6 | 0,47 | 0,59 | 0,67 | 1,04 |
| 0,55 | 0,75 | 1410 | 68,0 | 73,0 | 74,0 | 0,62 | 0,74 | 0,81 | 1,39 | 1455 | 68,5 | 73,0 | 75,5 | 0,55 | 0,67 | 0,75 | 1,35 |
| 0,75 | 1 | 1400 | 76,9 | 78,5 | 77,5 | 0,67 | 0,79 | 0,86 | 1,71 | 1430 | 74,0 | 79,0 | 76,2 | 0,59 | 0,72 | 0,80 | 1,71 |
| 1,1 | 1,5 | 1420 | 78,2 | 80,8 | 80,5 | 0,64 | 0,74 | 0,81 | 2,56 | 1440 | 75,1 | 79,0 | 80,3 | 0,53 | 0,65 | 0,73 | 2,61 |
| 1,5 | 2 | 1400 | 81,2 | 82,4 | 81,0 | 0,71 | 0,80 | 0,86 | 3,27 | 1435 | 78,6 | 81,5 | 81,7 | 0,62 | 0,73 | 0,81 | 3,15 |
| 2,2 | 3 | 1420 | 80,0 | 81,7 | 81,2 | 0,67 | 0,81 | 0,86 | 4,79 | 1440 | 79,0 | 82,0 | 83,0 | 0,62 | 0,75 | 0,82 | 4,50 |
| 3 | 4 | 1410 | 84,0 | 85,7 | 84,2 | 0,73 | 0,83 | 0,88 | 6,15 | 1430 | 83,0 | 85,0 | 84,9 | 0,65 | 0,77 | 0,84 | 5,85 |
| 4 | 5,5 | 1430 | 86,5 | 88,0 | 86,7 | 0,74 | 0,84 | 0,89 | 7,88 | 1445 | 85,8 | 87,1 | 86,7 | 0,67 | 0,78 | 0,84 | 7,64 |
| 5,5 | 7,5 | 1460 | 86,7 | 88,4 | 88,5 | 0,76 | 0,82 | 0,87 | 10,9 | 1470 | 83,8 | 87,7 | 87,8 | 0,62 | 0,74 | 0,82 | 10,6 |
| 7,5 | 10 | 1460 | 88,0 | 89,2 | 88,8 | 0,75 | 0,84 | 0,88 | 14,6 | 1475 | 85,0 | 87,7 | 88,6 | 0,65 | 0,77 | 0,83 | 14,2 |
| 11 | 15 | 1460 | 88,3 | 89,6 | 89,2 | 0,74 | 0,82 | 0,85 | 22,0 | 1470 | 86,4 | 88,5 | 89,0 | 0,66 | 0,77 | 0,82 | 21,0 |
| 15 | 20 | 1450 | 90,3 | 91,0 | 90,1 | 0,76 | 0,84 | 0,86 | 29,4 | 1465 | 88,3 | 90,0 | 90,1 | 0,68 | 0,78 | 0,83 | 27,9 |
| 18,5 | 25 | 1470 | 90,8 | 92,2 | 92,1 | 0,68 | 0,80 | 0,84 | 36,3 | 1475 | 88,6 | 91,0 | 92,0 | 0,60 | 0,73 | 0,80 | 35,0 |
| 22 | 30 | 1465 | 92,0 | 92,2 | 92,3 | 0,73 | 0,80 | 0,84 | 43,1 | 1475 | 91,1 | 91,7 | 92,5 | 0,65 | 0,75 | 0,79 | 41,9 |
| 30 | 40 | 1470 | 92,2 | 93,0 | 92,6 | 0,78 | 0,84 | 0,86 | 57,2 | 1480 | 91,8 | 93,1 | 93,3 | 0,73 | 0,81 | 0,85 | 52,6 |
| 37 | 50 | 1475 | 92,2 | 92,4 | 92,5 | 0,79 | 0,86 | 0,89 | 68,3 | 1480 | 91,4 | 92,5 | 93,2 | 0,72 | 0,84 | 0,87 | 63,5 |
| 45 | 60 | 1470 | 91,3 | 92,8 | 93,5 | 0,83 | 0,88 | 0,89 | 82,2 | 1480 | 91,0 | 92,9 | 93,5 | 0,80 | 0,85 | 0,87 | 77,0 |
| 55 | 75 | 1475 | 92,6 | 93,5 | 93,4 | 0,83 | 0,88 | 0,91 | 98,3 | 1480 | 92,2 | 93,4 | 93,6 | 0,75 | 0,84 | 0,89 | 91,9 |
| 75 | 100 | 1480 | 92,8 | 94,1 | 94,4 | 0,85 | 0,89 | 0,90 | 134 | 1485 | 92,3 | 93,8 | 94,3 | 0,81 | 0,87 | 0,89 | 124 |
| 90 | 125 | 1480 | 92,6 | 94,1 | 94,2 | 0,82 | 0,88 | 0,90 | 161 | 1490 | 92,0 | 93,9 | 94,2 | 0,80 | 0,86 | 0,89 | 149 |
| 110 | 150 | 1480 | 92,8 | 93,6 | 94,2 | 0,80 | 0,85 | 0,88 | 202 | 1490 | 92,2 | 93,8 | 94,5 | 0,71 | 0,81 | 0,87 | 186 |
| 132 | 175 | 1480 | 93,5 | 94,9 | 95,1 | 0,81 | 0,87 | 0,89 | 237 | 1485 | 93,3 | 94,7 | 95,1 | 0,73 | 0,82 | 0,88 | 219 |
| 160 | 220 | 1480 | 93,0 | 95,0 | 95,4 | 0,81 | 0,86 | 0,88 | 290 | 1485 | 94,2 | 95,2 | 95,5 | 0,80 | 0,85 | 0,87 | 268 |

Notes:

- The motors can also operate at a 60Hz supply. The change in performance data can be obtained directly from the local WEG representative.
- The values shown herewith are subjected to change without prior notice.



Non Sparking Multivoltage Motors

EEEx nA IIC T3

| | | | | | | | | | | | | | | 400V | | | | | | |
|----------------------------------|------|--------------|---------------|---------|-----------|-----------|-------------------------------|---|--------------|-----------------|--------------------------|-------------------|------|------|-------------------------|------|------|--------------|------|--|
| Output | | Frame IEC | C_n (Nm) | I/I_n | T_f/T_n | T_b/T_n | Inertia J Kgm ² | Allowable locket rorotor time Hot/Cold (s) | Weight Kg | Sound dB (A) | rpm min ⁻¹ | % of full load | | | | | | I_n (A) | | |
| KW | HP | | | | | | | | | | | Efficiency η | | | Power Factor Cos ϕ | | | | | |
| | | | | | | | | | | | | 50 | 75 | 100 | 50 | 75 | 100 | | | |
| VI Pole - 1000min ⁻¹ | | | | | | | | | | | | | | | | | | | | |
| 0,12 | 0,16 | 63 | 1,25 | 4,80 | 2,2 | 2,1 | 0,00068 | 16/35 | 8 | 43 | 915 | 37,2 | 50,0 | 55,0 | 0,49 | 0,55 | 0,65 | 0,65 | 0,48 | |
| 0,18 | 0,25 | 71 | 1,93 | 5,30 | 2,2 | 2,3 | 0,00079 | 16/35 | 11 | 43 | 890 | 41,0 | 51,0 | 57,0 | 0,48 | 0,57 | 0,62 | 0,62 | 0,74 | |
| 0,25 | 0,33 | 71 | 2,68 | 5,20 | 2,1 | 2,0 | 0,00096 | 11/24 | 12 | 43 | 890 | 55,0 | 62,0 | 66,0 | 0,40 | 0,50 | 0,57 | 0,57 | 0,96 | |
| 0,37 | 0,5 | 80 | 3,82 | 5,20 | 1,7 | 2,0 | 0,00225 | 7/15 | 14 | 43 | 925 | 60,0 | 64,0 | 67,8 | 0,48 | 0,62 | 0,65 | 0,65 | 1,21 | |
| 0,55 | 0,75 | 80 | 5,71 | 5,30 | 2,1 | 2,2 | 0,00312 | 9/20 | 16 | 43 | 920 | 61,0 | 66,0 | 67,0 | 0,50 | 0,65 | 0,74 | 0,74 | 1,60 | |
| 0,75 | 1 | 90S | 7,92 | 5,20 | 1,9 | 2,0 | 0,00448 | 12/26 | 19 | 45 | 905 | 70,0 | 71,0 | 70,0 | 0,54 | 0,68 | 0,77 | 0,77 | 2,01 | |
| 1,1 | 1,5 | 90L | 11,4 | 4,80 | 2,3 | 2,2 | 0,00673 | 14/31 | 23 | 45 | 920 | 71,0 | 73,5 | 73,5 | 0,50 | 0,64 | 0,75 | 0,75 | 2,88 | |
| 1,5 | 2 | 100L | 15,2 | 4,80 | 2,2 | 2,5 | 0,01121 | 18/40 | 29 | 44 | 940 | 74,0 | 77,0 | 77,5 | 0,53 | 0,65 | 0,74 | 0,74 | 3,78 | |
| 2,2 | 3 | 112M | 22,4 | 5,00 | 2,2 | 2,3 | 0,01683 | 14/31 | 35 | 48 | 940 | 77,0 | 80,5 | 80,1 | 0,53 | 0,66 | 0,74 | 0,74 | 5,36 | |
| 3 | 4 | 132S | 30,2 | 5,30 | 1,9 | 2,2 | 0,03489 | 20/44 | 53 | 52 | 950 | 80,5 | 83,0 | 82,5 | 0,58 | 0,70 | 0,77 | 0,77 | 6,82 | |
| 4 | 5,5 | 132M | 40,7 | 6,00 | 2,1 | 2,2 | 0,05040 | 18/40 | 65 | 52 | 940 | 82,2 | 85,5 | 86,0 | 0,60 | 0,70 | 0,77 | 0,77 | 8,72 | |
| 5,5 | 7,5 | 132M | 54,7 | 6,40 | 2,2 | 2,4 | 0,06203 | 14/31 | 73 | 52 | 960 | 84,0 | 86,0 | 86,0 | 0,56 | 0,69 | 0,76 | 0,76 | 12,1 | |
| 7,5 | 10 | 160M | 73,9 | 6,40 | 2,3 | 2,9 | 0,12209 | 17/37 | 103 | 56 | 970 | 87,1 | 88,4 | 88,0 | 0,62 | 0,74 | 0,81 | 0,81 | 15,2 | |
| 11 | 15 | 160L | 108 | 6,70 | 2,4 | 2,6 | 0,17596 | 12/26 | 129 | 56 | 975 | 86,7 | 88,3 | 88,3 | 0,59 | 0,72 | 0,79 | 0,79 | 22,8 | |
| 15 | 20 | 180L | 149 | 7,50 | 2,5 | 2,6 | 0,30338 | 10/22 | 181 | 56 | 965 | 89,1 | 90,1 | 89,8 | 0,78 | 0,86 | 0,89 | 0,89 | 26,9 | |
| 18,5 | 25 | 200L | 181 | 6,00 | 2,3 | 2,5 | 0,37671 | 25/55 | 219 | 58 | 975 | 89,3 | 91,3 | 89,8 | 0,70 | 0,79 | 0,84 | 0,84 | 34,8 | |
| 22 | 30 | 200L | 216 | 6,30 | 2,3 | 2,6 | 0,41258 | 20/44 | 228 | 58 | 975 | 88,9 | 90,9 | 91,3 | 0,65 | 0,75 | 0,81 | 0,81 | 42,8 | |
| 30 | 40 | 225S/M | 291 | 6,80 | 2,5 | 2,6 | 0,98843 | 20/44 | 366 | 61 | 985 | 91,0 | 91,8 | 91,8 | 0,81 | 0,87 | 0,88 | 0,88 | 53,4 | |
| 37 | 50 | 250S/M | 361 | 7,90 | 2,4 | 2,4 | 1,22377 | 17/37 | 440 | 61 | 980 | 90,0 | 92,4 | 92,5 | 0,75 | 0,84 | 0,87 | 0,87 | 66,4 | |
| 45 | 60 | 280S/M | 437 | 6,80 | 2,4 | 2,5 | 2,29825 | 33/73 | 610 | 66 | 985 | 90,0 | 92,0 | 92,6 | 0,68 | 0,78 | 0,84 | 0,84 | 83,5 | |
| 55 | 75 | 280S/M | 534 | 6,30 | 2,2 | 2,5 | 2,64298 | 39/86 | 655 | 66 | 985 | 92,0 | 93,2 | 93,5 | 0,73 | 0,82 | 0,86 | 0,86 | 98,7 | |
| 75 | 100 | 315S/M | 728 | 6,70 | 2,2 | 2,3 | 3,10263 | 30/66 | 775 | 69 | 985 | 92,0 | 93,4 | 93,7 | 0,71 | 0,81 | 0,85 | 0,85 | 136 | |
| 90 | 125 | 315S/M | 873 | 6,40 | 2,1 | 2,2 | 3,67719 | 22/48 | 818 | 69 | 985 | 93,0 | 94,0 | 93,8 | 0,74 | 0,82 | 0,85 | 0,85 | 163 | |
| 110 | 150 | 315S/M | 1067 | 6,50 | 2,3 | 2,4 | 5,28597 | 33/73 | 990 | 69 | 985 | 93,5 | 94,5 | 94,6 | 0,69 | 0,79 | 0,84 | 0,84 | 200 | |
| VIII Pole - 750min ⁻¹ | | | | | | | | | | | | | | | | | | | | |
| 0,12 | 0,16 | 71 | 1,64 | 4,20 | 1,9 | 2,1 | 0,00079 | 25/55 | 11 | 41 | 700 | 37,0 | 44,2 | 47,2 | 0,40 | 0,52 | 0,61 | 0,60 | | |
| 0,18 | 0,25 | 80 | 2,46 | 4,50 | 1,8 | 1,9 | 0,00242 | 8/18 | 14 | 42 | 700 | 41,0 | 51,0 | 54,2 | 0,40 | 0,53 | 0,62 | 0,77 | | |
| 0,25 | 0,33 | 80 | 3,41 | 4,10 | 1,8 | 1,8 | 0,00294 | 10/22 | 15 | 42 | 700 | 52,0 | 59,0 | 62,3 | 0,42 | 0,55 | 0,63 | 0,92 | | |
| 0,37 | 0,5 | 90S | 5,16 | 4,50 | 2,3 | 2,4 | 0,00448 | 12/26 | 18 | 43 | 685 | 50,0 | 57,5 | 61,0 | 0,40 | 0,50 | 0,58 | 1,51 | | |
| 0,55 | 0,75 | 90L | 7,62 | 5,10 | 2,3 | 2,2 | 0,00617 | 11/24 | 22 | 43 | 690 | 58,0 | 63,5 | 65,0 | 0,37 | 0,48 | 0,58 | 2,11 | | |
| 0,75 | 1 | 100L | 10,2 | 4,60 | 2,0 | 2,1 | 0,01121 | 30/66 | 28 | 50 | 700 | 60,0 | 67,0 | 69,0 | 0,38 | 0,48 | 0,59 | 2,66 | | |
| 1,1 | 1,5 | 100L | 15,0 | 4,20 | 1,5 | 2,1 | 0,01289 | 18/40 | 31 | 50 | 700 | 64,0 | 70,0 | 72,2 | 0,43 | 0,56 | 0,65 | 3,38 | | |
| 1,5 | 2 | 112M | 20,2 | 5,50 | 2,4 | 2,9 | 0,02430 | 22/48 | 43 | 46 | 710 | 76,0 | 81,3 | 81,6 | 0,45 | 0,57 | 0,65 | 4,08 | | |
| 2,2 | 3 | 132S | 29,6 | 6,20 | 2,4 | 2,7 | 0,07528 | 32/70 | 68 | 48 | 710 | 78,5 | 81,5 | 83,0 | 0,53 | 0,63 | 0,72 | 5,31 | | |
| 3 | 4 | 132M | 40,4 | 5,80 | 2,3 | 2,4 | 0,08531 | 21/46 | 75 | 48 | 710 | 76,5 | 82,9 | 83,5 | 0,52 | 0,64 | 0,72 | 7,20 | | |
| 4 | 5,5 | 160M | 52,4 | 5,40 | 2,3 | 3,1 | 0,12209 | 32/70 | 105 | 51 | 730 | 81,3 | 84,3 | 86,0 | 0,46 | 0,57 | 0,66 | 10,2 | | |
| 5,5 | 7,5 | 160M | 72,0 | 5,40 | 2,4 | 3,2 | 0,14364 | 24/53 | 114 | 51 | 730 | 83,0 | 84,0 | 85,0 | 0,43 | 0,54 | 0,68 | 13,7 | | |
| 7,5 | 10 | 160L | 98,8 | 5,00 | 2,1 | 2,8 | 0,16519 | 15/33 | 127 | 51 | 725 | 84,0 | 86,0 | 85,5 | 0,50 | 0,63 | 0,72 | 17,6 | | |
| 11 | 15 | 180L | 145 | 6,80 | 2,2 | 2,4 | 0,30338 | 10/22 | 167 | 51 | 725 | 87,0 | 88,5 | 88,3 | 0,70 | 0,79 | 0,84 | 21,4 | | |
| 15 | 20 | 200L | 198 | 5,00 | 2,0 | 2,1 | 0,37671 | 34/75 | 217 | 53 | 725 | 87,0 | 88,5 | 88,9 | 0,55 | 0,67 | 0,74 | 32,9 | | |
| 18,5 | 25 | 225S/M | 240 | 6,90 | 2,1 | 2,5 | 0,84723 | 18/40 | 341 | 56 | 735 | 88,3 | 90,0 | 89,8 | 0,70 | 0,78 | 0,84 | 35,2 | | |
| 22 | 30 | 225S/M | 288 | 7,50 | 2,2 | 2,2 | 0,98843 | 19/42 | 365 | 56 | 730 | 88,8 | 91,0 | 91,3 | 0,70 | 0,80 | 0,82 | 42,4 | | |
| 30 | 40 | 250S/M | 393 | 6,80 | 2,1 | 2,4 | 1,22377 | 17/37 | 440 | 56 | 730 | 89,0 | 91,1 | 91,8 | 0,70 | 0,78 | 0,83 | 56,7 | | |
| 37 | 50 | 280S/M | 481 | 6,80 | 2,0 | 2,0 | 2,29825 | 23/51 | 607 | 59 | 735 | 90,0 | 92,2 | 92,3 | 0,68 | 0,78 | 0,82 | 70,6 | | |
| 45 | 60 | 280S/M | 581 | 6,90 | 1,9 | 2,0 | 2,64298 | 26/57 | 643 | 59 | 740 | 90,4 | 92,5 | 93,0 | 0,68 | 0,77 | 0,82 | 85,2 | | |
| 55 | 75 | 315S/M | 715 | 6,50 | 1,9 | 2,0 | 3,10263 | 27/59 | 745 | 62 | 735 | 90,9 | 93,1 | 93,3 | 0,69 | 0,78 | 0,82 | 104 | | |
| 75 | 100 | 315S/M | 968 | 7,10 | 1,6 | 2,0 | 4,36667 | 19/42 | 876 | 62 | 740 | 91,5 | 93,3 | 93,5 | 0,73 | 0,81 | 0,82 | 141 | | |
| 90 | 125 | 315S/M | 1162 | 6,80 | 2,1 | 2,2 | 5,28597 | 28/62 | 970 | 62 | 740 | 91,6 | 93,8 | 94,4 | 0,70 | 0,78 | 0,83 | 166 | | |

C_n = Full load torque

I/I_n = Locked rotor current

T_f/T_n = Locked rotor torque

T_b/T_n = Breakdown torque

I_n = Full load current

Standard voltage, connection and frequency:

220-240V Δ 50Hz 380-415V Δ 50Hz

380-415V Δ 50Hz 660-690V Y 50Hz

380-415V Δ 50Hz 440-480V Δ 60Hz

Improved Efficiency

| Output | | 380V | | | | | | | | 415V | | | | | | | |
|--------|----|--------------------------|----------------|----|-----|--------------------|----|-----|-----------------------|--------------------------|----------------|----|-----|--------------------|----|-----|-----------------------|
| | | rpm min ⁻¹ | % of full load | | | | | | I _n (A) | rpm min ⁻¹ | % of full load | | | | | | I _n (A) |
| | | | Efficiency η | | | Power Factor Cos φ | | | | | Efficiency η | | | Power Factor Cos φ | | | |
| KW | HP | | 50 | 75 | 100 | 50 | 75 | 100 | | | 50 | 75 | 100 | 50 | 75 | 100 | |

VII Pole - 1000min⁻¹

| | | | | | | | | | | | | | | | | | |
|------|------|-----|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 0,12 | 0,16 | 910 | 38,8 | 50,1 | 53,4 | 0,50 | 0,58 | 0,66 | 0,52 | 920 | 35,6 | 47,0 | 52,0 | 0,47 | 0,53 | 0,63 | 0,51 |
| 0,18 | 0,25 | 880 | 42,0 | 52,0 | 57,0 | 0,50 | 0,60 | 0,64 | 0,75 | 900 | 41,0 | 50,0 | 57,0 | 0,45 | 0,55 | 0,61 | 0,72 |
| 0,25 | 0,33 | 880 | 55,2 | 61,3 | 65,3 | 0,44 | 0,55 | 0,61 | 0,95 | 900 | 50,9 | 60,1 | 64,7 | 0,37 | 0,46 | 0,54 | 1,00 |
| 0,37 | 0,5 | 920 | 61,1 | 64,9 | 67,5 | 0,50 | 0,63 | 0,69 | 1,21 | 930 | 57,1 | 62,8 | 66,0 | 0,45 | 0,61 | 0,62 | 1,26 |
| 0,55 | 0,75 | 910 | 62,0 | 65,3 | 67,0 | 0,55 | 0,69 | 0,78 | 1,60 | 930 | 58,0 | 64,9 | 66,3 | 0,46 | 0,60 | 0,68 | 1,70 |
| 0,75 | 1 | 890 | 67,0 | 68,0 | 68,0 | 0,57 | 0,71 | 0,80 | 2,09 | 920 | 68,0 | 72,4 | 72,4 | 0,51 | 0,64 | 0,75 | 1,92 |
| 1,1 | 1,5 | 905 | 72,0 | 73,0 | 72,6 | 0,55 | 0,69 | 0,78 | 2,95 | 930 | 70,0 | 75,2 | 75,2 | 0,48 | 0,61 | 0,72 | 2,83 |
| 1,5 | 2 | 930 | 75,0 | 77,5 | 77,3 | 0,56 | 0,69 | 0,77 | 3,83 | 950 | 72,0 | 77,3 | 77,6 | 0,50 | 0,63 | 0,71 | 3,79 |
| 2,2 | 3 | 930 | 78,0 | 80,0 | 80,0 | 0,55 | 0,68 | 0,76 | 5,50 | 950 | 76,0 | 80,3 | 80,5 | 0,50 | 0,63 | 0,72 | 5,28 |
| 3 | 4 | 940 | 80,0 | 83,0 | 82,0 | 0,60 | 0,72 | 0,79 | 7,04 | 960 | 80,0 | 83,0 | 82,6 | 0,53 | 0,66 | 0,74 | 6,83 |
| 4 | 5,5 | 930 | 83,4 | 85,4 | 85,6 | 0,61 | 0,72 | 0,79 | 8,99 | 945 | 82,0 | 85,3 | 85,9 | 0,58 | 0,68 | 0,75 | 8,64 |
| 5,5 | 7,5 | 955 | 83,0 | 85,5 | 85,6 | 0,58 | 0,71 | 0,77 | 12,7 | 965 | 84,0 | 86,1 | 86,0 | 0,54 | 0,66 | 0,74 | 12,0 |
| 7,5 | 10 | 965 | 86,5 | 88,0 | 87,2 | 0,66 | 0,78 | 0,83 | 15,7 | 970 | 85,5 | 88,0 | 88,0 | 0,58 | 0,71 | 0,79 | 15,0 |
| 11 | 15 | 970 | 87,7 | 88,7 | 88,3 | 0,64 | 0,76 | 0,82 | 23,1 | 975 | 85,8 | 87,8 | 88,1 | 0,54 | 0,68 | 0,76 | 22,9 |
| 15 | 20 | 960 | 89,0 | 90,0 | 89,8 | 0,80 | 0,88 | 0,90 | 28,1 | 970 | 89,0 | 90,5 | 90,5 | 0,75 | 0,84 | 0,88 | 26,2 |
| 18,5 | 25 | 970 | 89,5 | 90,2 | 89,8 | 0,74 | 0,82 | 0,86 | 35,9 | 980 | 89,0 | 90,8 | 91,2 | 0,66 | 0,76 | 0,82 | 34,4 |
| 22 | 30 | 970 | 89,0 | 90,8 | 91,2 | 0,70 | 0,80 | 0,84 | 43,6 | 980 | 88,8 | 91,0 | 91,3 | 0,60 | 0,70 | 0,78 | 43,0 |
| 30 | 40 | 980 | 91,0 | 91,5 | 91,8 | 0,82 | 0,88 | 0,89 | 55,7 | 990 | 91,0 | 91,8 | 92,2 | 0,80 | 0,86 | 0,87 | 52,0 |
| 37 | 50 | 970 | 90,0 | 92,3 | 92,4 | 0,77 | 0,85 | 0,88 | 69,1 | 985 | 90,0 | 92,4 | 92,6 | 0,73 | 0,82 | 0,86 | 64,6 |
| 45 | 60 | 985 | 90,0 | 92,0 | 92,6 | 0,72 | 0,81 | 0,85 | 86,9 | 985 | 90,0 | 92,3 | 92,7 | 0,63 | 0,75 | 0,82 | 82,4 |
| 55 | 75 | 980 | 92,0 | 93,2 | 93,4 | 0,74 | 0,83 | 0,87 | 103 | 985 | 92,0 | 93,2 | 93,6 | 0,70 | 0,80 | 0,84 | 97,3 |
| 75 | 100 | 985 | 92,0 | 93,2 | 93,5 | 0,72 | 0,82 | 0,86 | 142 | 990 | 92,0 | 93,5 | 93,8 | 0,70 | 0,80 | 0,84 | 132 |
| 90 | 125 | 980 | 92,5 | 93,5 | 93,6 | 0,75 | 0,83 | 0,86 | 170 | 985 | 93,0 | 94,0 | 93,9 | 0,72 | 0,80 | 0,84 | 159 |
| 110 | 150 | 985 | 93,3 | 94,3 | 94,4 | 0,73 | 0,81 | 0,85 | 208 | 985 | 93,6 | 94,5 | 94,7 | 0,66 | 0,77 | 0,82 | 197 |

VIII Pole - 750min⁻¹

| | | | | | | | | | | | | | | | | | |
|------|------|-----|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 0,12 | 0,16 | 690 | 37,2 | 44,6 | 47,5 | 0,45 | 0,56 | 0,64 | 0,60 | 710 | 37,0 | 45,0 | 47,0 | 0,35 | 0,47 | 0,55 | 0,65 |
| 0,18 | 0,25 | 690 | 40,0 | 50,0 | 53,0 | 0,47 | 0,56 | 0,65 | 0,79 | 710 | 41,0 | 50,3 | 53,0 | 0,38 | 0,50 | 0,59 | 0,80 |
| 0,25 | 0,33 | 690 | 49,0 | 58,0 | 61,0 | 0,44 | 0,56 | 0,65 | 0,96 | 710 | 54,3 | 60,9 | 62,0 | 0,40 | 0,53 | 0,61 | 0,92 |
| 0,37 | 0,5 | 680 | 52,3 | 57,0 | 60,8 | 0,45 | 0,53 | 0,60 | 1,54 | 690 | 50,0 | 57,0 | 61,0 | 0,35 | 0,47 | 0,55 | 1,53 |
| 0,55 | 0,75 | 680 | 59,0 | 63,8 | 65,0 | 0,40 | 0,51 | 0,60 | 2,14 | 700 | 57,0 | 63,0 | 64,5 | 0,35 | 0,45 | 0,55 | 2,16 |
| 0,75 | 1 | 690 | 60,0 | 67,0 | 69,0 | 0,40 | 0,50 | 0,61 | 2,71 | 710 | 60,0 | 68,4 | 69,0 | 0,36 | 0,46 | 0,57 | 2,65 |
| 1,1 | 1,5 | 690 | 64,0 | 70,0 | 72,0 | 0,45 | 0,58 | 0,67 | 3,46 | 710 | 64,0 | 71,5 | 72,2 | 0,40 | 0,53 | 0,63 | 3,36 |
| 1,5 | 2 | 700 | 76,2 | 81,0 | 81,3 | 0,47 | 0,58 | 0,66 | 4,25 | 715 | 75,8 | 81,1 | 81,5 | 0,43 | 0,55 | 0,64 | 4,00 |
| 2,2 | 3 | 700 | 78,0 | 81,3 | 82,6 | 0,55 | 0,64 | 0,73 | 5,54 | 715 | 79,0 | 82,0 | 82,8 | 0,50 | 0,62 | 0,71 | 5,21 |
| 3 | 4 | 700 | 78,0 | 83,0 | 83,0 | 0,54 | 0,66 | 0,74 | 7,42 | 715 | 74,1 | 82,6 | 83,5 | 0,50 | 0,62 | 0,70 | 7,14 |
| 4 | 5,5 | 725 | 82,6 | 85,0 | 85,9 | 0,48 | 0,61 | 0,70 | 10,1 | 730 | 79,9 | 83,6 | 86,0 | 0,41 | 0,54 | 0,63 | 10,3 |
| 5,5 | 7,5 | 725 | 83,0 | 84,7 | 85,2 | 0,45 | 0,55 | 0,69 | 14,2 | 730 | 83,0 | 84,0 | 85,0 | 0,40 | 0,52 | 0,67 | 13,4 |
| 7,5 | 10 | 720 | 84,0 | 86,0 | 85,5 | 0,52 | 0,65 | 0,73 | 18,3 | 730 | 84,0 | 86,0 | 85,5 | 0,48 | 0,60 | 0,70 | 17,4 |
| 11 | 15 | 720 | 87,0 | 88,0 | 88,0 | 0,72 | 0,80 | 0,85 | 22,3 | 730 | 87,0 | 88,6 | 88,5 | 0,68 | 0,78 | 0,83 | 20,8 |
| 15 | 20 | 720 | 86,0 | 88,0 | 88,0 | 0,60 | 0,70 | 0,76 | 34,1 | 730 | 87,0 | 88,5 | 88,9 | 0,50 | 0,64 | 0,72 | 32,6 |
| 18,5 | 25 | 730 | 88,3 | 90,0 | 90,8 | 0,72 | 0,80 | 0,85 | 36,4 | 740 | 88,2 | 90,3 | 90,2 | 0,67 | 0,76 | 0,83 | 34,4 |
| 22 | 30 | 725 | 89,0 | 90,6 | 90,9 | 0,72 | 0,80 | 0,83 | 44,3 | 735 | 88,3 | 91,0 | 91,2 | 0,67 | 0,78 | 0,80 | 41,9 |
| 30 | 40 | 725 | 89,2 | 91,0 | 91,7 | 0,72 | 0,79 | 0,83 | 59,9 | 735 | 88,9 | 91,0 | 92,0 | 0,68 | 0,77 | 0,82 | 55,3 |
| 37 | 50 | 730 | 90,3 | 92,0 | 92,1 | 0,70 | 0,79 | 0,83 | 73,5 | 740 | 90,0 | 92,2 | 92,4 | 0,65 | 0,76 | 0,80 | 69,6 |
| 45 | 60 | 735 | 90,3 | 92,4 | 92,7 | 0,70 | 0,79 | 0,83 | 88,9 | 740 | 90,2 | 92,5 | 93,0 | 0,65 | 0,76 | 0,81 | 83,1 |
| 55 | 75 | 735 | 91,2 | 93,0 | 93,1 | 0,71 | 0,80 | 0,83 | 108 | 740 | 90,6 | 93,1 | 93,4 | 0,65 | 0,76 | 0,81 | 101 |
| 75 | 100 | 735 | 91,3 | 93,2 | 93,3 | 0,75 | 0,82 | 0,83 | 147 | 740 | 91,4 | 93,4 | 93,4 | 0,70 | 0,80 | 0,82 | 136 |
| 90 | 125 | 735 | 91,8 | 93,7 | 94,2 | 0,73 | 0,80 | 0,86 | 169 | 740 | 91,5 | 93,7 | 94,3 | 0,68 | 0,76 | 0,81 | 164 |

Notes:

- The motors can also operate to a 60Hz supply. The change in performance data can be obtained directly from the local WEG representative.
- The values shown herewith are subjected to change without prior notice.



Non Sparking Premium Efficiency Multivoltage Motors
EEEx nA IIC T3

| | | | | | | | | | | | 400V | | | | | | | |
|--------|----|--------------|------------------------|------------------|------------------|--------------------------------|-------------------------------|--|--------------|-----------------|--------------------------|----------------|----|-----|--------------------|----|-----|-----------------------|
| Output | | Frame IEC | C _n (Nm) | I/I _n | T/T _n | T _b /T _n | Inertia J Kgm ² | Allowable locket rortor time Hot/Cold (s) | Weight Kg | Sound dB (A) | rpm min ⁻¹ | % of full load | | | | | | I _n (A) |
| KW | HP | | | | | | | | | | | Efficiency η | | | Power Factor Cos φ | | | |
| | | | | | | | | | | | | 50 | 75 | 100 | 50 | 75 | 100 | |

II Pole - 3000 min⁻¹

| | | | | | | | | | | | | | | | | | | |
|------|------|--------|------|------|-----|-----|---------|-------|-----|----|------|------|------|------|------|------|------|------|
| 0,18 | 0,25 | 63 | 0,63 | 4,40 | 2,5 | 2,7 | 0,00012 | 31/68 | 7 | 52 | 2730 | 63,0 | 68,0 | 69,5 | 0,65 | 0,77 | 0,81 | 0,46 |
| 0,25 | 0,33 | 63 | 0,87 | 4,60 | 2,4 | 2,8 | 0,00016 | 22/48 | 7 | 52 | 2730 | 62,1 | 68,0 | 71,2 | 0,55 | 0,69 | 0,77 | 0,66 |
| 0,37 | 0,5 | 71 | 1,27 | 5,50 | 2,4 | 2,8 | 0,00033 | 23/51 | 10 | 56 | 2780 | 68,0 | 73,8 | 74,5 | 0,66 | 0,78 | 0,85 | 0,84 |
| 0,55 | 0,75 | 71 | 1,89 | 5,70 | 2,7 | 2,7 | 0,00045 | 16/35 | 11 | 56 | 2780 | 71,0 | 75,5 | 76,7 | 0,70 | 0,80 | 0,86 | 1,20 |
| 0,75 | 1 | 80 | 2,59 | 6,00 | 2,8 | 2,8 | 0,00079 | 18/40 | 14 | 59 | 2770 | 74,2 | 77,5 | 79,2 | 0,71 | 0,82 | 0,85 | 1,61 |
| 1,1 | 1,5 | 80 | 3,73 | 7,20 | 3,2 | 3,3 | 0,00096 | 10/22 | 16 | 59 | 2815 | 81,7 | 83,3 | 82,8 | 0,67 | 0,78 | 0,85 | 2,26 |
| 1,5 | 2 | 90S | 5,02 | 7,30 | 2,5 | 2,8 | 0,00205 | 14/31 | 20 | 65 | 2855 | 83,2 | 84,8 | 84,5 | 0,68 | 0,80 | 0,85 | 3,01 |
| 2,2 | 3 | 90L | 7,36 | 8,00 | 2,8 | 3,0 | 0,00242 | 7/15 | 22 | 68 | 2855 | 84,0 | 86,3 | 86,0 | 0,64 | 0,77 | 0,84 | 4,40 |
| 3 | 4 | 100L | 9,92 | 8,20 | 2,6 | 3,0 | 0,00616 | 8/18 | 31 | 67 | 2890 | 83,3 | 86,7 | 87,1 | 0,72 | 0,82 | 0,87 | 5,71 |
| 4 | 5,5 | 112M | 13,2 | 8,20 | 2,4 | 3,1 | 0,00842 | 10/22 | 46 | 64 | 2900 | 87,0 | 88,4 | 88,6 | 0,72 | 0,83 | 0,87 | 7,49 |
| 5,5 | 7,5 | 132S | 17,9 | 8,00 | 2,4 | 3,0 | 0,02056 | 19/42 | 62 | 68 | 2940 | 88,3 | 90,0 | 90,1 | 0,71 | 0,81 | 0,86 | 10,2 |
| 7,5 | 10 | 132S | 24,5 | 8,00 | 2,3 | 2,9 | 0,02430 | 8/18 | 68 | 68 | 2920 | 89,0 | 90,6 | 90,8 | 0,72 | 0,82 | 0,87 | 13,7 |
| 11 | 15 | 160M | 35,6 | 8,50 | 2,3 | 3,0 | 0,05295 | 12/26 | 110 | 70 | 2950 | 90,5 | 92,0 | 92,3 | 0,74 | 0,80 | 0,84 | 20,5 |
| 15 | 20 | 160M | 48,8 | 8,20 | 2,4 | 2,9 | 0,05883 | 11/24 | 115 | 70 | 2935 | 91,0 | 91,8 | 92,5 | 0,74 | 0,82 | 0,85 | 27,5 |
| 18,5 | 25 | 160L | 60,0 | 8,80 | 2,3 | 2,7 | 0,06766 | 11/24 | 136 | 70 | 2945 | 91,9 | 92,8 | 93,1 | 0,74 | 0,83 | 0,85 | 33,7 |
| 22 | 30 | 180M | 71,3 | 8,60 | 2,8 | 2,7 | 0,15082 | 9/20 | 180 | 70 | 2950 | 92,5 | 93,6 | 93,7 | 0,76 | 0,85 | 0,87 | 39,0 |
| 30 | 40 | 200L | 97,0 | 7,40 | 2,7 | 2,4 | 0,20630 | 13/29 | 245 | 74 | 2955 | 92,8 | 93,7 | 94,0 | 0,84 | 0,88 | 0,89 | 51,8 |
| 37 | 50 | 200L | 119 | 8,30 | 2,6 | 2,6 | 0,22424 | 16/35 | 260 | 74 | 2960 | 93,0 | 94,0 | 94,3 | 0,71 | 0,81 | 0,87 | 65,1 |
| 45 | 60 | 225S/M | 145 | 8,50 | 2,4 | 2,9 | 0,39464 | 16/35 | 385 | 78 | 2960 | 93,6 | 94,5 | 94,7 | 0,82 | 0,88 | 0,90 | 76,2 |
| 55 | 75 | 250S/M | 178 | 8,30 | 2,3 | 3,0 | 0,52021 | 18/40 | 470 | 78 | 2960 | 94,3 | 95,1 | 95,0 | 0,85 | 0,89 | 0,91 | 91,8 |
| 75 | 100 | 280S/M | 241 | 7,10 | 1,6 | 2,6 | 1,12963 | 36/79 | 680 | 79 | 2975 | 93,0 | 94,4 | 95,0 | 0,81 | 0,86 | 0,88 | 129 |
| 90 | 125 | 280S/M | 289 | 8,20 | 1,8 | 2,7 | 1,41204 | 33/73 | 740 | 79 | 2975 | 94,4 | 95,5 | 95,8 | 0,83 | 0,87 | 0,89 | 152 |
| 110 | 150 | 315S/M | 353 | 8,00 | 1,8 | 2,6 | 1,50617 | 38/84 | 830 | 81 | 2975 | 94,4 | 95,4 | 95,8 | 0,82 | 0,87 | 0,89 | 186 |
| 132 | 175 | 315S/M | 424 | 8,30 | 1,9 | 2,6 | 1,74151 | 32/70 | 900 | 81 | 2975 | 94,3 | 95,5 | 96,0 | 0,80 | 0,86 | 0,89 | 223 |
| 160 | 220 | 315S/M | 514 | 7,40 | 2,0 | 2,6 | 2,11806 | 37/81 | 990 | 81 | 2975 | 95,1 | 96,0 | 96,2 | 0,84 | 0,89 | 0,90 | 267 |

IV Pole - 1500 min⁻¹

| | | | | | | | | | | | | | | | | | | |
|------|------|--------|------|------|-----|-----|---------|-------|------|----|------|------|------|------|------|------|------|------|
| 0,18 | 0,25 | 63 | 1,23 | 4,60 | 2,1 | 2,4 | 0,00056 | 19/42 | 8 | 44 | 1400 | 56,0 | 64,0 | 67,5 | 0,43 | 0,55 | 0,66 | 0,58 |
| 0,25 | 0,33 | 71 | 1,71 | 5,00 | 3,0 | 3,1 | 0,00079 | 32/70 | 11 | 43 | 1400 | 69,0 | 73,5 | 75,0 | 0,52 | 0,64 | 0,71 | 0,68 |
| 0,37 | 0,5 | 71 | 2,54 | 5,00 | 2,7 | 2,8 | 0,00079 | 36/79 | 11 | 43 | 1390 | 64,0 | 72,0 | 75,0 | 0,38 | 0,50 | 0,68 | 1,05 |
| 0,55 | 0,75 | 80 | 3,65 | 5,70 | 2,5 | 2,7 | 0,00242 | 20/44 | 14 | 44 | 1440 | 72,0 | 77,0 | 78,0 | 0,57 | 0,70 | 0,77 | 1,32 |
| 0,75 | 1 | 80 | 5,06 | 5,50 | 2,4 | 2,6 | 0,00294 | 17/37 | 16 | 44 | 1415 | 77,0 | 78,5 | 80,1 | 0,62 | 0,75 | 0,82 | 1,65 |
| 1,1 | 1,5 | 90S | 7,22 | 7,50 | 2,5 | 2,7 | 0,00504 | 14/31 | 23 | 47 | 1455 | 78,0 | 83,3 | 83,8 | 0,53 | 0,65 | 0,73 | 2,60 |
| 1,5 | 2 | 90L | 9,85 | 7,50 | 2,8 | 3,3 | 0,00672 | 9/20 | 24 | 47 | 1455 | 81,0 | 84,6 | 85,2 | 0,54 | 0,68 | 0,78 | 3,26 |
| 2,2 | 3 | 100L | 14,8 | 7,40 | 2,7 | 2,9 | 0,00842 | 9/20 | 33 | 51 | 1425 | 84,9 | 86,4 | 86,4 | 0,64 | 0,77 | 0,83 | 4,44 |
| 3 | 4 | 100L | 20,0 | 8,30 | 2,9 | 3,3 | 0,01225 | 7/15 | 45 | 51 | 1430 | 84,0 | 86,3 | 87,5 | 0,63 | 0,76 | 0,84 | 5,89 |
| 4 | 5,5 | 112M | 26,4 | 6,60 | 2,0 | 2,6 | 0,01875 | 8/18 | 49 | 55 | 1445 | 87,1 | 88,3 | 88,6 | 0,66 | 0,77 | 0,83 | 7,85 |
| 5,5 | 7,5 | 132S | 35,9 | 8,50 | 2,3 | 3,1 | 0,04652 | 10/22 | 66 | 58 | 1465 | 88,0 | 89,6 | 90,1 | 0,62 | 0,76 | 0,83 | 10,6 |
| 7,5 | 10 | 132M | 49,1 | 8,20 | 2,2 | 2,9 | 0,05427 | 7/15 | 76 | 58 | 1460 | 88,0 | 90,0 | 90,4 | 0,70 | 0,81 | 0,86 | 13,9 |
| 11 | 15 | 160M | 72,0 | 6,00 | 2,0 | 2,3 | 0,09535 | 19/42 | 125 | 62 | 1460 | 90,3 | 91,6 | 91,2 | 0,68 | 0,78 | 0,83 | 21,0 |
| 15 | 20 | 160L | 97,8 | 6,10 | 2,0 | 2,4 | 0,11542 | 11/24 | 130 | 62 | 1465 | 90,0 | 91,9 | 91,8 | 0,66 | 0,77 | 0,83 | 28,4 |
| 18,5 | 25 | 180M | 120 | 8,10 | 2,7 | 2,8 | 0,17939 | 11/24 | 175 | 64 | 1470 | 91,6 | 93,0 | 93,4 | 0,65 | 0,77 | 0,82 | 34,9 |
| 22 | 30 | 180L | 143 | 8,60 | 2,8 | 2,9 | 0,21527 | 11/24 | 195 | 64 | 1475 | 92,2 | 93,5 | 93,7 | 0,71 | 0,81 | 0,86 | 39,4 |
| 30 | 40 | 200L | 194 | 7,00 | 2,4 | 2,6 | 0,33095 | 18/40 | 240 | 67 | 1475 | 93,0 | 94,0 | 93,9 | 0,67 | 0,78 | 0,83 | 55,6 |
| 37 | 50 | 225S/M | 240 | 7,20 | 2,2 | 2,7 | 0,62988 | 14/31 | 365 | 70 | 1475 | 93,0 | 94,0 | 94,1 | 0,75 | 0,84 | 0,87 | 65,2 |
| 45 | 60 | 225S/M | 292 | 7,40 | 2,3 | 2,8 | 0,83984 | 12/26 | 400 | 70 | 1475 | 93,9 | 94,4 | 94,4 | 0,80 | 0,86 | 0,89 | 77,3 |
| 55 | 75 | 250S/M | 356 | 7,40 | 2,3 | 2,8 | 1,15478 | 20/44 | 450 | 70 | 1475 | 94,1 | 94,7 | 94,6 | 0,76 | 0,85 | 0,89 | 94,3 |
| 75 | 100 | 280S/M | 483 | 7,20 | 2,2 | 2,4 | 2,16799 | 21/46 | 660 | 74 | 1485 | 93,9 | 95,1 | 95,2 | 0,79 | 0,85 | 0,88 | 129 |
| 90 | 125 | 280S/M | 579 | 7,80 | 2,4 | 2,6 | 2,81036 | 22/48 | 795 | 74 | 1485 | 94,3 | 95,1 | 95,3 | 0,79 | 0,85 | 0,88 | 155 |
| 110 | 150 | 315S/M | 708 | 7,60 | 2,4 | 2,6 | 3,21184 | 29/64 | 860 | 77 | 1485 | 94,5 | 95,2 | 95,6 | 0,80 | 0,86 | 0,88 | 189 |
| 132 | 175 | 315S/M | 849 | 7,80 | 2,4 | 2,6 | 3,77391 | 34/75 | 995 | 77 | 1485 | 94,9 | 95,4 | 95,7 | 0,81 | 0,87 | 0,89 | 224 |
| 160 | 220 | 315S/M | 1029 | 7,60 | 2,4 | 2,7 | 3,77391 | 18/40 | 1000 | 77 | 1485 | 94,3 | 95,6 | 95,9 | 0,77 | 0,84 | 0,87 | 277 |

C_n = Full load torque

I/I_n = Locked rotor current

T/T_n = Locked rotor torque

T_b/T_n = Breakdown torque

I_f = Full load current

Standard voltage, connection and frequency:

220-240V Δ 50Hz 380-415V Δ 50Hz

380-415V Y 50Hz 660-690V Y 50Hz

440-480V Y 60Hz 440-480V Δ 60Hz

High Efficiency
EFFI

| | | 380V | | | | | | 415V | | | | | | | | | | | | |
|--------|----|--------------------------|----------------|----|-----|--------------------|----|------|-----------------------|--------------------------|----------------|----|-----|--------------------|----|-----|-----------------------|--|--|--|
| Output | | rpm min ⁻¹ | % of full load | | | | | | I _n (A) | rpm min ⁻¹ | % of full load | | | | | | I _n (A) | | | |
| KW | HP | | Efficiency η | | | Power Factor Cos φ | | | | | Efficiency η | | | Power Factor Cos φ | | | | | | |
| 50 | 75 | | 50 | 75 | 100 | 50 | 75 | 100 | | | 50 | 75 | 100 | 50 | 75 | 100 | | | | |

II Pole - 3000 min⁻¹

| | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0,18 | 0,25 | 2700 | 61,0 | 66,0 | 68,0 | 0,69 | 0,79 | 0,83 | 0,49 | 2760 | 62,0 | 68,5 | 70,5 | 0,60 | 0,74 | 0,78 | 0,46 |
| 0,25 | 0,33 | 2700 | 60,0 | 65,0 | 70,0 | 0,58 | 0,75 | 0,80 | 0,68 | 2800 | 62,0 | 69,0 | 71,9 | 0,54 | 0,66 | 0,75 | 0,65 |
| 0,37 | 0,5 | 2760 | 68,0 | 73,8 | 74,3 | 0,69 | 0,80 | 0,88 | 0,86 | 2800 | 68,0 | 73,8 | 74,0 | 0,63 | 0,75 | 0,82 | 0,85 |
| 0,55 | 0,75 | 2750 | 71,0 | 75,8 | 76,5 | 0,75 | 0,82 | 0,88 | 1,24 | 2820 | 71,0 | 75,0 | 76,6 | 0,64 | 0,77 | 0,84 | 1,19 |
| 0,75 | 1 | 2750 | 73,5 | 76,5 | 79,0 | 0,75 | 0,84 | 0,87 | 1,66 | 2800 | 74,0 | 77,6 | 79,2 | 0,67 | 0,78 | 0,82 | 1,61 |
| 1,1 | 1,5 | 2800 | 81,8 | 83,0 | 82,8 | 0,71 | 0,82 | 0,87 | 2,32 | 2825 | 81,3 | 83,2 | 82,8 | 0,61 | 0,75 | 0,83 | 2,23 |
| 1,5 | 2 | 2845 | 83,0 | 84,3 | 84,3 | 0,71 | 0,83 | 0,87 | 3,11 | 2865 | 83,0 | 84,9 | 84,4 | 0,63 | 0,76 | 0,83 | 2,98 |
| 2,2 | 3 | 2850 | 84,5 | 86,3 | 86,0 | 0,70 | 0,81 | 0,86 | 4,52 | 2860 | 84,0 | 86,0 | 86,0 | 0,58 | 0,73 | 0,82 | 4,34 |
| 3 | 4 | 2880 | 83,5 | 86,7 | 87,0 | 0,76 | 0,85 | 0,88 | 5,95 | 2900 | 83,0 | 86,7 | 87,3 | 0,65 | 0,80 | 0,86 | 5,56 |
| 4 | 5,5 | 2885 | 86,7 | 88,0 | 88,3 | 0,77 | 0,85 | 0,89 | 7,73 | 2910 | 86,7 | 88,3 | 88,5 | 0,65 | 0,82 | 0,86 | 7,31 |
| 5,5 | 7,5 | 2930 | 89,0 | 90,3 | 90,2 | 0,75 | 0,83 | 0,87 | 10,6 | 2950 | 88,0 | 89,8 | 90,0 | 0,70 | 0,78 | 0,84 | 10,1 |
| 7,5 | 10 | 2915 | 88,9 | 90,5 | 90,6 | 0,74 | 0,83 | 0,88 | 14,3 | 2920 | 88,5 | 90,7 | 90,9 | 0,70 | 0,80 | 0,86 | 13,3 |
| 11 | 15 | 2945 | 90,3 | 91,9 | 92,2 | 0,76 | 0,81 | 0,85 | 21,3 | 2955 | 90,2 | 92,0 | 92,2 | 0,70 | 0,79 | 0,83 | 20,0 |
| 15 | 20 | 2930 | 90,9 | 91,7 | 92,4 | 0,76 | 0,83 | 0,86 | 28,7 | 2935 | 90,7 | 91,6 | 92,4 | 0,71 | 0,81 | 0,84 | 26,9 |
| 18,5 | 25 | 2940 | 92,0 | 92,8 | 93,0 | 0,76 | 0,84 | 0,87 | 34,7 | 2950 | 91,6 | 92,7 | 93,0 | 0,70 | 0,81 | 0,83 | 33,3 |
| 22 | 30 | 2945 | 92,9 | 93,7 | 93,7 | 0,78 | 0,86 | 0,89 | 40,1 | 2955 | 92,0 | 93,2 | 93,4 | 0,74 | 0,82 | 0,85 | 38,6 |
| 30 | 40 | 2950 | 92,7 | 93,6 | 93,8 | 0,86 | 0,89 | 0,90 | 54,0 | 2960 | 92,8 | 93,7 | 94,1 | 0,82 | 0,87 | 0,88 | 50,4 |
| 37 | 50 | 2955 | 93,3 | 94,0 | 94,2 | 0,72 | 0,82 | 0,87 | 68,6 | 2960 | 93,0 | 94,0 | 94,3 | 0,70 | 0,80 | 0,86 | 63,5 |
| 45 | 60 | 2955 | 93,9 | 94,5 | 94,5 | 0,84 | 0,89 | 0,91 | 79,5 | 2965 | 93,3 | 94,4 | 94,6 | 0,80 | 0,87 | 0,89 | 74,4 |
| 55 | 75 | 2955 | 94,2 | 94,7 | 94,7 | 0,86 | 0,90 | 0,92 | 95,9 | 2960 | 94,1 | 95,1 | 95,0 | 0,83 | 0,88 | 0,90 | 89,5 |
| 75 | 100 | 2970 | 93,0 | 94,4 | 95,0 | 0,83 | 0,87 | 0,88 | 136 | 2975 | 93,0 | 94,4 | 95,0 | 0,80 | 0,85 | 0,87 | 125 |
| 90 | 125 | 2970 | 94,3 | 95,5 | 95,8 | 0,84 | 0,88 | 0,90 | 159 | 2975 | 94,3 | 95,5 | 95,8 | 0,81 | 0,86 | 0,88 | 149 |
| 110 | 150 | 2970 | 94,4 | 95,5 | 95,8 | 0,84 | 0,88 | 0,90 | 194 | 2975 | 94,4 | 95,4 | 95,8 | 0,80 | 0,86 | 0,88 | 182 |
| 132 | 175 | 2970 | 94,3 | 95,5 | 96,0 | 0,80 | 0,87 | 0,89 | 235 | 2975 | 94,3 | 95,5 | 96,0 | 0,78 | 0,85 | 0,88 | 217 |
| 160 | 220 | 2970 | 94,9 | 95,9 | 96,1 | 0,86 | 0,89 | 0,90 | 281 | 2975 | 95,0 | 96,0 | 96,2 | 0,82 | 0,88 | 0,89 | 260 |

IV Pole - 1500 min⁻¹

| | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0,18 | 0,25 | 1390 | 56,0 | 63,0 | 66,0 | 0,45 | 0,57 | 0,68 | 0,61 | 1410 | 55,0 | 64,0 | 67,0 | 0,41 | 0,53 | 0,64 | 0,58 |
| 0,25 | 0,33 | 1385 | 68,0 | 70,0 | 74,1 | 0,56 | 0,68 | 0,75 | 0,68 | 1425 | 70,0 | 73,9 | 75,5 | 0,48 | 0,60 | 0,68 | 0,68 |
| 0,37 | 0,5 | 1370 | 64,0 | 72,0 | 74,5 | 0,40 | 0,52 | 0,70 | 1,08 | 1410 | 64,0 | 72,0 | 75,0 | 0,36 | 0,47 | 0,66 | 1,04 |
| 0,55 | 0,75 | 1410 | 71,0 | 76,0 | 77,0 | 0,62 | 0,74 | 0,80 | 1,36 | 1455 | 72,0 | 76,5 | 78,3 | 0,53 | 0,67 | 0,75 | 1,30 |
| 0,75 | 1 | 1400 | 76,5 | 78,5 | 80,0 | 0,66 | 0,78 | 0,84 | 1,70 | 1430 | 77,0 | 78,5 | 80,0 | 0,58 | 0,72 | 0,80 | 1,63 |
| 1,1 | 1,5 | 1450 | 81,5 | 83,8 | 83,8 | 0,56 | 0,70 | 0,77 | 2,59 | 1460 | 75,0 | 83,0 | 83,5 | 0,47 | 0,62 | 0,69 | 2,66 |
| 1,5 | 2 | 1450 | 81,0 | 84,6 | 85,0 | 0,55 | 0,69 | 0,79 | 3,39 | 1460 | 81,0 | 84,5 | 85,0 | 0,53 | 0,66 | 0,77 | 3,19 |
| 2,2 | 3 | 1420 | 85,2 | 86,3 | 86,4 | 0,70 | 0,81 | 0,86 | 4,52 | 1430 | 84,0 | 86,2 | 86,4 | 0,60 | 0,73 | 0,81 | 4,38 |
| 3 | 4 | 1425 | 84,3 | 86,5 | 87,3 | 0,67 | 0,80 | 0,86 | 6,07 | 1440 | 84,0 | 86,0 | 87,4 | 0,60 | 0,72 | 0,81 | 5,90 |
| 4 | 5,5 | 1440 | 87,0 | 88,0 | 88,3 | 0,70 | 0,80 | 0,85 | 8,10 | 1450 | 86,9 | 88,2 | 88,6 | 0,62 | 0,74 | 0,81 | 7,75 |
| 5,5 | 7,5 | 1460 | 88,2 | 89,5 | 90,0 | 0,68 | 0,80 | 0,85 | 10,9 | 1470 | 87,5 | 89,4 | 89,9 | 0,55 | 0,72 | 0,81 | 10,5 |
| 7,5 | 10 | 1455 | 88,0 | 89,8 | 90,3 | 0,75 | 0,84 | 0,88 | 14,3 | 1465 | 88,0 | 89,9 | 90,3 | 0,62 | 0,78 | 0,84 | 13,8 |
| 11 | 15 | 1450 | 90,9 | 91,5 | 91,0 | 0,72 | 0,81 | 0,85 | 21,6 | 1470 | 90,0 | 91,6 | 91,3 | 0,65 | 0,75 | 0,81 | 20,7 |
| 15 | 20 | 1460 | 90,0 | 91,9 | 91,8 | 0,71 | 0,80 | 0,84 | 29,6 | 1470 | 90,0 | 91,9 | 91,8 | 0,60 | 0,74 | 0,82 | 27,7 |
| 18,5 | 25 | 1465 | 91,8 | 93,0 | 93,3 | 0,70 | 0,80 | 0,84 | 35,9 | 1475 | 91,3 | 92,9 | 93,3 | 0,60 | 0,74 | 0,80 | 34,5 |
| 22 | 30 | 1470 | 92,2 | 93,4 | 93,5 | 0,75 | 0,84 | 0,87 | 41,1 | 1475 | 92,0 | 93,4 | 93,6 | 0,67 | 0,78 | 0,85 | 38,5 |
| 30 | 40 | 1475 | 93,5 | 94,1 | 93,9 | 0,71 | 0,81 | 0,85 | 57,1 | 1480 | 92,5 | 93,9 | 93,8 | 0,63 | 0,75 | 0,81 | 54,9 |
| 37 | 50 | 1475 | 92,9 | 94,0 | 94,0 | 0,79 | 0,86 | 0,88 | 68,0 | 1480 | 92,5 | 93,9 | 93,9 | 0,70 | 0,82 | 0,86 | 63,7 |
| 45 | 60 | 1475 | 94,0 | 94,3 | 94,2 | 0,82 | 0,88 | 0,90 | 80,6 | 1480 | 93,8 | 94,2 | 94,4 | 0,77 | 0,85 | 0,88 | 75,4 |
| 55 | 75 | 1475 | 94,2 | 94,6 | 94,5 | 0,79 | 0,87 | 0,90 | 98,3 | 1480 | 94,0 | 94,7 | 94,7 | 0,74 | 0,84 | 0,88 | 91,8 |
| 75 | 100 | 1480 | 93,5 | 94,8 | 95,0 | 0,81 | 0,87 | 0,88 | 136 | 1485 | 93,8 | 95,0 | 95,2 | 0,77 | 0,84 | 0,87 | 126 |
| 90 | 125 | 1485 | 94,4 | 95,1 | 95,2 | 0,81 | 0,87 | 0,89 | 161 | 1485 | 94,1 | 95,0 | 95,3 | 0,77 | 0,84 | 0,87 | 151 |
| 110 | 150 | 1480 | 94,6 | 95,1 | 95,4 | 0,82 | 0,87 | 0,89 | 197 | 1485 | 94,0 | 95,1 | 95,6 | 0,78 | 0,85 | 0,88 | 182 |
| 132 | 175 | 1480 | 94,9 | 95,3 | 95,6 | 0,83 | 0,88 | 0,89 | 236 | 1485 | 94,7 | 95,3 | 95,7 | 0,78 | 0,86 | 0,88 | 218 |
| 160 | 220 | 1480 | 94,3 | 95,5 | 95,8 | 0,80 | 0,86 | 0,88 | 288 | 1485 | 94,2 | 95,6 | 95,9 | 0,75 | 0,82 | 0,85 | 273 |

Notes:

- The motors can also operate at a 60Hz supply. The change in performance data can be obtained directly from the local WEG representative.
- The values shown herewith are subjected to change without prior notice.



Non Sparking Premium Efficiency Multivoltage Motors
EEEx nA IIC T3

| | | | | | | | | | | | | 400V | | | | | | | | | | | | | | | | | |
|--------|----|--------------|------------------------|------------------|--------------------------------|--------------------------------|-------------------------------|--|--------------|-----------------|--------------------------|----------------|----|-----|--------------------|----|-----|-----------------------|--|--|--|--|--|--|--|--|--|--|--|
| Output | | Frame IEC | C _n (Nm) | I/I _n | T _f /T _n | T _b /T _n | Inertia J Kgm ² | Allowable locket rortor time Hot/Cold (s) | Weight Kg | Sound dB (A) | rpm min ⁻¹ | % of full load | | | | | | I _n (A) | | | | | | | | | | | |
| | | | | | | | | | | | | Efficiency η | | | Power Factor Cos φ | | | | | | | | | | | | | | |
| KW | HP | | | | | | | | | | | 50 | 75 | 100 | 50 | 75 | 100 | | | | | | | | | | | | |

VI Pole - 1000 min⁻¹

| | | | | | | | | | | | | | | | | | | |
|------|------|--------|------|------|-----|-----|---------|-------|-----|----|-----|------|------|------|------|------|------|------|
| 0,18 | 0,25 | 71 | 1,93 | 5,50 | 2,2 | 2,3 | 0,00079 | 15/33 | 11 | 43 | 890 | 44,5 | 57,0 | 61,0 | 0,45 | 0,55 | 0,61 | 0,70 |
| 0,25 | 0,33 | 71 | 2,68 | 5,20 | 2,1 | 2,1 | 0,00096 | 11/24 | 12 | 43 | 890 | 55,0 | 65,5 | 69,5 | 0,39 | 0,48 | 0,55 | 0,94 |
| 0,37 | 0,5 | 80 | 3,82 | 5,20 | 1,7 | 2,1 | 0,00225 | 7/15 | 14 | 43 | 925 | 63,7 | 68,0 | 70,5 | 0,44 | 0,60 | 0,65 | 1,17 |
| 0,55 | 0,75 | 80 | 5,71 | 5,30 | 2,1 | 2,2 | 0,00311 | 9/20 | 16 | 43 | 920 | 65,0 | 69,5 | 70,8 | 0,48 | 0,64 | 0,72 | 1,56 |
| 0,75 | 1 | 90S | 7,87 | 5,30 | 2,1 | 2,1 | 0,00448 | 8/18 | 19 | 45 | 910 | 70,5 | 73,3 | 73,9 | 0,48 | 0,63 | 0,71 | 2,06 |
| 0,75 | 1 | 90S | 7,87 | 5,30 | 2,1 | 2,1 | 0,00448 | 8/18 | 19 | 45 | 910 | 70,5 | 73,3 | 73,9 | 0,48 | 0,63 | 0,71 | 2,06 |
| 1,1 | 1,5 | 90L | 11,4 | 5,50 | 2,3 | 2,3 | 0,00672 | 8/18 | 23 | 45 | 920 | 70,0 | 72,6 | 74,9 | 0,48 | 0,59 | 0,65 | 3,26 |
| 1,5 | 2 | 100L | 15,2 | 5,50 | 2,1 | 2,2 | 0,01121 | 10/22 | 29 | 44 | 940 | 74,0 | 79,5 | 80,1 | 0,50 | 0,60 | 0,70 | 3,86 |
| 2,2 | 3 | 112M | 22,6 | 5,50 | 2,1 | 2,1 | 0,01682 | 9/20 | 39 | 48 | 930 | 73,5 | 80,9 | 83,0 | 0,43 | 0,58 | 0,68 | 5,63 |
| 3 | 4 | 132S | 30,7 | 6,00 | 2,3 | 2,4 | 0,03489 | 13/29 | 56 | 52 | 935 | 80,0 | 85,0 | 86,5 | 0,56 | 0,67 | 0,74 | 6,76 |
| 4 | 5,5 | 132M | 40,7 | 6,50 | 2,3 | 2,5 | 0,05039 | 14/31 | 68 | 52 | 940 | 84,0 | 86,6 | 87,2 | 0,57 | 0,70 | 0,76 | 8,71 |
| 5,5 | 7,5 | 132M | 55,6 | 6,80 | 2,1 | 2,4 | 0,06202 | 11/24 | 79 | 52 | 945 | 83,3 | 86,5 | 87,6 | 0,58 | 0,70 | 0,76 | 11,9 |
| 7,5 | 10 | 160M | 73,9 | 6,60 | 2,3 | 2,9 | 0,12209 | 16/35 | 106 | 56 | 970 | 87,0 | 89,2 | 90,0 | 0,63 | 0,74 | 0,81 | 14,8 |
| 11 | 15 | 160L | 108 | 7,00 | 2,2 | 2,5 | 0,17595 | 12/26 | 136 | 56 | 975 | 89,6 | 90,5 | 90,3 | 0,59 | 0,72 | 0,79 | 22,3 |
| 15 | 20 | 180L | 149 | 7,30 | 2,5 | 2,6 | 0,30337 | 10/22 | 183 | 56 | 965 | 91,0 | 91,9 | 91,6 | 0,79 | 0,86 | 0,89 | 26,6 |
| 18,5 | 25 | 200L | 181 | 6,50 | 2,3 | 2,5 | 0,37670 | 25/55 | 224 | 58 | 975 | 90,7 | 92,7 | 92,9 | 0,69 | 0,77 | 0,84 | 34,2 |
| 22 | 30 | 200L | 216 | 7,00 | 2,3 | 2,6 | 0,41258 | 20/44 | 235 | 58 | 975 | 91,0 | 92,6 | 92,9 | 0,65 | 0,75 | 0,82 | 41,7 |
| 30 | 40 | 225S/M | 291 | 7,00 | 2,5 | 2,6 | 0,98842 | 17/37 | 366 | 61 | 985 | 91,3 | 93,0 | 93,5 | 0,75 | 0,81 | 0,85 | 54,5 |
| 37 | 50 | 250S/M | 361 | 7,00 | 2,3 | 2,4 | 1,22377 | 20/44 | 450 | 61 | 980 | 91,8 | 94,0 | 94,0 | 0,75 | 0,81 | 0,82 | 69,7 |
| 45 | 60 | 280S/M | 439 | 7,20 | 2,4 | 2,7 | 2,29824 | 17/37 | 610 | 66 | 980 | 91,5 | 93,4 | 94,2 | 0,68 | 0,78 | 0,83 | 83,3 |
| 55 | 75 | 280S/M | 534 | 7,00 | 2,3 | 2,5 | 2,64298 | 24/53 | 655 | 66 | 985 | 92,3 | 93,9 | 94,3 | 0,65 | 0,76 | 0,81 | 104 |
| 75 | 100 | 315S/M | 728 | 6,80 | 2,2 | 2,4 | 3,10263 | 24/53 | 725 | 69 | 985 | 92,8 | 94,0 | 94,5 | 0,75 | 0,81 | 0,84 | 136 |
| 90 | 125 | 315S/M | 873 | 6,50 | 2,1 | 2,1 | 4,02193 | 22/48 | 810 | 69 | 985 | 92,7 | 94,2 | 94,8 | 0,72 | 0,80 | 0,83 | 165 |
| 110 | 150 | 315S/M | 1067 | 6,80 | 2,3 | 2,4 | 5,28596 | 27/59 | 980 | 69 | 985 | 93,5 | 94,8 | 95,1 | 0,69 | 0,79 | 0,84 | 199 |

VIII Pole - 750 min⁻¹

| | | | | | | | | | | | | | | | | | | |
|------|------|--------|------|------|-----|-----|---------|-------|-----|----|-----|------|------|------|------|------|------|------|
| 0,18 | 0,25 | 80 | 2,46 | 4,50 | 1,8 | 1,9 | 0,00242 | 8/18 | 14 | 42 | 700 | 44,2 | 53,9 | 56,3 | 0,43 | 0,53 | 0,60 | 0,77 |
| 0,25 | 0,33 | 80 | 3,41 | 4,10 | 1,8 | 1,8 | 0,00294 | 10/22 | 15 | 42 | 700 | 53,6 | 61,6 | 64,3 | 0,41 | 0,54 | 0,61 | 0,92 |
| 0,37 | 0,5 | 90S | 5,16 | 4,50 | 2,3 | 2,4 | 0,00448 | 12/26 | 18 | 43 | 685 | 53,5 | 61,3 | 64,0 | 0,40 | 0,50 | 0,56 | 1,49 |
| 0,55 | 0,75 | 90L | 7,62 | 5,20 | 2,0 | 2,2 | 0,00616 | 11/24 | 21 | 43 | 690 | 60,0 | 64,0 | 66,3 | 0,40 | 0,52 | 0,60 | 2,00 |
| 0,75 | 1 | 100L | 10,2 | 4,60 | 1,8 | 2,1 | 0,00952 | 16/35 | 27 | 50 | 700 | 70,0 | 74,2 | 76,0 | 0,40 | 0,53 | 0,61 | 2,34 |
| 1,1 | 1,5 | 100L | 15,0 | 4,20 | 1,5 | 2,1 | 0,01289 | 18/40 | 30 | 50 | 700 | 70,5 | 74,5 | 77,0 | 0,41 | 0,54 | 0,63 | 3,27 |
| 1,5 | 2 | 112M | 20,2 | 5,70 | 2,2 | 2,8 | 0,02430 | 17/37 | 45 | 46 | 710 | 79,5 | 81,1 | 82,0 | 0,45 | 0,57 | 0,66 | 4,00 |
| 2,2 | 3 | 132S | 29,6 | 7,00 | 2,4 | 2,7 | 0,07527 | 19/42 | 70 | 48 | 710 | 82,2 | 84,0 | 84,6 | 0,50 | 0,61 | 0,70 | 5,36 |
| 3 | 4 | 132M | 40,4 | 6,00 | 2,3 | 2,4 | 0,08531 | 21/46 | 78 | 48 | 710 | 84,0 | 85,8 | 86,3 | 0,52 | 0,65 | 0,73 | 6,87 |
| 4 | 5,5 | 160M | 52,7 | 5,60 | 2,2 | 2,9 | 0,12209 | 24/53 | 110 | 51 | 725 | 84,6 | 86,0 | 86,6 | 0,46 | 0,57 | 0,66 | 10,1 |
| 5,5 | 7,5 | 160M | 72,5 | 5,60 | 2,3 | 2,8 | 0,14364 | 20/44 | 126 | 51 | 725 | 84,3 | 86,5 | 87,0 | 0,42 | 0,55 | 0,65 | 14,0 |
| 7,5 | 10 | 160L | 98,8 | 5,20 | 2,0 | 2,6 | 0,16518 | 15/33 | 130 | 51 | 725 | 85,6 | 88,2 | 89,0 | 0,46 | 0,59 | 0,68 | 17,9 |
| 11 | 15 | 180L | 145 | 7,00 | 2,2 | 2,4 | 0,30337 | 10/22 | 183 | 51 | 725 | 86,5 | 88,5 | 89,0 | 0,61 | 0,73 | 0,78 | 22,9 |
| 15 | 20 | 200L | 198 | 5,30 | 2,0 | 2,2 | 0,37670 | 33/73 | 225 | 53 | 725 | 88,0 | 89,8 | 90,3 | 0,50 | 0,63 | 0,70 | 34,3 |
| 18,5 | 25 | 225S/M | 240 | 7,00 | 2,1 | 2,5 | 0,84722 | 16/35 | 340 | 56 | 735 | 90,3 | 91,1 | 91,9 | 0,70 | 0,79 | 0,84 | 34,6 |
| 22 | 30 | 225S/M | 288 | 7,30 | 2,5 | 2,5 | 0,98842 | 19/42 | 365 | 56 | 730 | 90,8 | 92,1 | 92,5 | 0,70 | 0,79 | 0,82 | 41,9 |
| 30 | 40 | 250S/M | 393 | 7,00 | 2,1 | 2,4 | 1,22377 | 17/37 | 440 | 56 | 730 | 91,5 | 92,5 | 93,0 | 0,70 | 0,78 | 0,83 | 56,1 |
| 37 | 50 | 280S/M | 481 | 6,50 | 2,0 | 2,0 | 2,29824 | 23/51 | 590 | 59 | 735 | 92,6 | 93,5 | 93,9 | 0,68 | 0,78 | 0,82 | 69,4 |
| 45 | 60 | 280S/M | 581 | 7,00 | 1,9 | 2,0 | 2,64298 | 26/57 | 630 | 59 | 740 | 92,9 | 93,7 | 94,0 | 0,58 | 0,70 | 0,76 | 91,0 |
| 55 | 75 | 315S/M | 715 | 6,50 | 2,0 | 2,0 | 3,44737 | 27/59 | 730 | 62 | 735 | 93,6 | 94,5 | 94,5 | 0,69 | 0,78 | 0,82 | 102 |
| 75 | 100 | 315S/M | 968 | 7,00 | 1,9 | 2,0 | 4,36666 | 19/42 | 860 | 62 | 740 | 94,0 | 94,7 | 94,9 | 0,73 | 0,81 | 0,83 | 138 |
| 90 | 125 | 315S/M | 1162 | 6,80 | 2,1 | 2,2 | 5,28596 | 28/62 | 960 | 62 | 740 | 93,9 | 94,7 | 95,0 | 0,70 | 0,78 | 0,84 | 163 |

C_n = Full load torque

I/I_n = Locked rotor current

T_f/T_n = Locked rotor torque

T_b/T_n = Breakdown torque

I_f = Full load current

Standard voltage, connection and frequency:

220-240V Δ 50Hz 380-415V Δ 50Hz

380-415V Y 50Hz 660-690V Y 50Hz

440-480V Y 60Hz 440-480V Δ 60Hz



High Efficiency

| Output | | 380V | | | | | | | | | 415V | | | | | | | | |
|--------|----|--------------------------|----------------|----|-----|--------------------|----|-----|-----------------------|--------------------------|----------------|----|-----|--------------------|----|-----|-----------------------|--|--|
| | | rpm min ⁻¹ | % of full load | | | | | | I _n (A) | rpm min ⁻¹ | % of full load | | | | | | I _n (A) | | |
| | | | Efficiency η | | | Power Factor Cos φ | | | | | Efficiency η | | | Power Factor Cos φ | | | | | |
| KW | HP | | 50 | 75 | 100 | 50 | 75 | 100 | | | 50 | 75 | 100 | 50 | 75 | 100 | | | |

VI Pole - 1000 min⁻¹

| | | | | | | | | | | | | | | | | | |
|------|------|-----|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 0,18 | 0,25 | 880 | 45,0 | 57,5 | 61,0 | 0,48 | 0,58 | 0,63 | 0,71 | 900 | 44,0 | 57,0 | 61,1 | 0,42 | 0,53 | 0,60 | 0,68 |
| 0,25 | 0,33 | 880 | 55,0 | 64,0 | 69,0 | 0,40 | 0,53 | 0,59 | 0,93 | 900 | 53,5 | 64,3 | 68,8 | 0,37 | 0,44 | 0,53 | 0,95 |
| 0,37 | 0,5 | 920 | 64,0 | 68,5 | 70,0 | 0,48 | 0,63 | 0,69 | 1,16 | 930 | 61,0 | 67,0 | 70,0 | 0,40 | 0,58 | 0,62 | 1,19 |
| 0,55 | 0,75 | 910 | 65,0 | 68,5 | 70,5 | 0,53 | 0,67 | 0,76 | 1,56 | 930 | 60,0 | 68,9 | 71,0 | 0,44 | 0,60 | 0,66 | 1,63 |
| 0,75 | 1 | 900 | 70,0 | 73,0 | 73,8 | 0,50 | 0,64 | 0,72 | 2,14 | 920 | 69,0 | 72,8 | 73,6 | 0,45 | 0,62 | 0,70 | 2,03 |
| 0,75 | 1 | 900 | 70,0 | 73,0 | 73,8 | 0,50 | 0,64 | 0,72 | 2,14 | 920 | 69,0 | 72,8 | 73,6 | 0,45 | 0,62 | 0,70 | 2,03 |
| 1,1 | 1,5 | 910 | 70,0 | 72,5 | 74,8 | 0,50 | 0,60 | 0,67 | 3,33 | 930 | 69,5 | 72,5 | 74,9 | 0,45 | 0,55 | 0,62 | 3,30 |
| 1,5 | 2 | 930 | 74,5 | 79,5 | 80,0 | 0,53 | 0,65 | 0,72 | 3,96 | 950 | 73,5 | 79,4 | 80,2 | 0,45 | 0,55 | 0,68 | 3,83 |
| 2,2 | 3 | 920 | 74,0 | 81,0 | 82,8 | 0,47 | 0,60 | 0,70 | 5,77 | 940 | 73,0 | 80,5 | 82,8 | 0,40 | 0,53 | 0,65 | 5,69 |
| 3 | 4 | 930 | 80,0 | 84,9 | 86,0 | 0,60 | 0,69 | 0,75 | 7,07 | 940 | 80,0 | 84,8 | 86,2 | 0,53 | 0,65 | 0,73 | 6,63 |
| 4 | 5,5 | 930 | 84,2 | 86,8 | 87,2 | 0,60 | 0,72 | 0,78 | 8,94 | 945 | 83,5 | 86,4 | 87,1 | 0,54 | 0,67 | 0,74 | 8,63 |
| 5,5 | 7,5 | 940 | 83,6 | 86,6 | 87,6 | 0,60 | 0,71 | 0,77 | 12,3 | 950 | 83,0 | 86,5 | 87,6 | 0,55 | 0,68 | 0,75 | 11,6 |
| 7,5 | 10 | 965 | 86,9 | 89,0 | 89,9 | 0,66 | 0,77 | 0,82 | 15,5 | 970 | 87,0 | 89,5 | 90,0 | 0,58 | 0,71 | 0,80 | 14,5 |
| 11 | 15 | 970 | 89,9 | 90,5 | 90,3 | 0,64 | 0,76 | 0,81 | 22,8 | 975 | 89,3 | 90,0 | 90,3 | 0,54 | 0,68 | 0,76 | 22,3 |
| 15 | 20 | 960 | 91,0 | 91,8 | 91,6 | 0,80 | 0,88 | 0,90 | 27,6 | 970 | 91,0 | 91,8 | 91,6 | 0,77 | 0,85 | 0,88 | 25,9 |
| 18,5 | 25 | 970 | 90,6 | 92,6 | 92,9 | 0,72 | 0,80 | 0,85 | 35,6 | 980 | 90,5 | 92,8 | 93,0 | 0,65 | 0,75 | 0,82 | 33,7 |
| 22 | 30 | 970 | 91,0 | 92,5 | 92,9 | 0,70 | 0,78 | 0,84 | 42,8 | 980 | 91,0 | 92,5 | 92,9 | 0,60 | 0,72 | 0,80 | 41,2 |
| 30 | 40 | 980 | 91,2 | 92,9 | 93,4 | 0,77 | 0,83 | 0,86 | 56,7 | 990 | 91,0 | 92,9 | 93,5 | 0,70 | 0,80 | 0,84 | 53,1 |
| 37 | 50 | 970 | 91,5 | 94,0 | 94,0 | 0,77 | 0,83 | 0,84 | 71,6 | 985 | 91,6 | 94,1 | 93,9 | 0,72 | 0,79 | 0,80 | 68,7 |
| 45 | 60 | 980 | 92,0 | 93,3 | 94,1 | 0,71 | 0,80 | 0,84 | 86,8 | 985 | 91,0 | 93,2 | 94,0 | 0,65 | 0,76 | 0,82 | 81,3 |
| 55 | 75 | 980 | 92,5 | 93,9 | 94,2 | 0,68 | 0,77 | 0,82 | 108 | 985 | 92,0 | 93,5 | 94,2 | 0,60 | 0,74 | 0,80 | 102 |
| 75 | 100 | 980 | 93,0 | 94,0 | 94,5 | 0,77 | 0,83 | 0,85 | 142 | 985 | 92,5 | 94,0 | 94,4 | 0,72 | 0,79 | 0,83 | 133 |
| 90 | 125 | 980 | 92,9 | 94,3 | 94,8 | 0,74 | 0,81 | 0,84 | 172 | 985 | 92,5 | 94,1 | 94,8 | 0,69 | 0,78 | 0,82 | 161 |
| 110 | 150 | 980 | 93,6 | 94,8 | 95,1 | 0,73 | 0,81 | 0,85 | 207 | 985 | 93,3 | 94,8 | 95,2 | 0,66 | 0,77 | 0,83 | 194 |

VIII Pole - 750 min⁻¹

| | | | | | | | | | | | | | | | | | |
|------|------|-----|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 0,18 | 0,25 | 690 | 44,0 | 53,3 | 55,5 | 0,45 | 0,55 | 0,63 | 0,78 | 710 | 43,9 | 53,0 | 56,3 | 0,40 | 0,50 | 0,57 | 0,78 |
| 0,25 | 0,33 | 690 | 52,0 | 61,0 | 63,8 | 0,43 | 0,55 | 0,63 | 0,95 | 710 | 56,5 | 62,5 | 64,2 | 0,40 | 0,52 | 0,59 | 0,92 |
| 0,37 | 0,5 | 680 | 55,0 | 61,0 | 63,5 | 0,44 | 0,52 | 0,58 | 1,53 | 690 | 52,0 | 61,0 | 64,0 | 0,35 | 0,47 | 0,54 | 1,49 |
| 0,55 | 0,75 | 680 | 60,0 | 64,0 | 66,0 | 0,45 | 0,53 | 0,61 | 2,08 | 700 | 60,0 | 64,0 | 66,0 | 0,37 | 0,50 | 0,58 | 2,00 |
| 0,75 | 1 | 690 | 71,5 | 74,0 | 75,5 | 0,44 | 0,54 | 0,62 | 2,43 | 710 | 70,0 | 74,0 | 76,0 | 0,38 | 0,51 | 0,60 | 2,29 |
| 1,1 | 1,5 | 690 | 71,0 | 74,5 | 76,9 | 0,43 | 0,56 | 0,65 | 3,34 | 710 | 70,0 | 74,0 | 77,0 | 0,39 | 0,51 | 0,61 | 3,26 |
| 1,5 | 2 | 700 | 79,8 | 81,0 | 82,0 | 0,47 | 0,58 | 0,68 | 4,09 | 715 | 79,3 | 80,8 | 81,8 | 0,43 | 0,55 | 0,63 | 4,05 |
| 2,2 | 3 | 700 | 82,5 | 84,0 | 84,6 | 0,51 | 0,63 | 0,71 | 5,56 | 715 | 81,6 | 83,9 | 84,4 | 0,48 | 0,59 | 0,69 | 5,26 |
| 3 | 4 | 700 | 84,3 | 86,0 | 86,3 | 0,54 | 0,66 | 0,74 | 7,14 | 715 | 84,0 | 85,5 | 86,2 | 0,50 | 0,63 | 0,72 | 6,72 |
| 4 | 5,5 | 720 | 84,5 | 86,0 | 86,5 | 0,48 | 0,61 | 0,70 | 10,0 | 730 | 84,4 | 86,0 | 86,6 | 0,41 | 0,54 | 0,63 | 10,2 |
| 5,5 | 7,5 | 720 | 84,2 | 86,6 | 87,0 | 0,46 | 0,60 | 0,70 | 13,7 | 730 | 84,1 | 86,4 | 87,0 | 0,38 | 0,50 | 0,60 | 14,7 |
| 7,5 | 10 | 720 | 85,5 | 88,2 | 89,0 | 0,50 | 0,64 | 0,72 | 17,8 | 730 | 85,4 | 88,1 | 89,0 | 0,41 | 0,54 | 0,64 | 18,3 |
| 11 | 15 | 720 | 86,7 | 88,5 | 89,0 | 0,63 | 0,75 | 0,79 | 23,8 | 730 | 86,3 | 88,5 | 89,0 | 0,60 | 0,70 | 0,77 | 22,3 |
| 15 | 20 | 720 | 88,0 | 89,8 | 90,3 | 0,52 | 0,65 | 0,71 | 35,5 | 730 | 88,0 | 89,7 | 90,3 | 0,48 | 0,60 | 0,68 | 34,0 |
| 18,5 | 25 | 730 | 90,3 | 91,0 | 91,8 | 0,73 | 0,81 | 0,85 | 36,0 | 740 | 90,0 | 91,0 | 91,8 | 0,67 | 0,77 | 0,83 | 33,8 |
| 22 | 30 | 725 | 90,9 | 92,0 | 92,5 | 0,72 | 0,80 | 0,83 | 43,5 | 730 | 90,5 | 92,0 | 92,4 | 0,67 | 0,78 | 0,81 | 40,9 |
| 30 | 40 | 725 | 91,5 | 92,5 | 93,0 | 0,73 | 0,80 | 0,84 | 58,3 | 735 | 91,0 | 92,5 | 93,0 | 0,65 | 0,77 | 0,82 | 54,7 |
| 37 | 50 | 730 | 92,5 | 93,5 | 93,8 | 0,70 | 0,80 | 0,83 | 72,2 | 740 | 92,4 | 93,4 | 93,8 | 0,65 | 0,76 | 0,81 | 67,7 |
| 45 | 60 | 735 | 92,8 | 93,6 | 94,0 | 0,63 | 0,74 | 0,79 | 92,1 | 740 | 92,5 | 93,7 | 94,1 | 0,53 | 0,65 | 0,73 | 91,1 |
| 55 | 75 | 735 | 93,8 | 94,3 | 94,4 | 0,71 | 0,80 | 0,83 | 107 | 740 | 93,5 | 94,5 | 94,6 | 0,65 | 0,75 | 0,81 | 100 |
| 75 | 100 | 735 | 94,0 | 94,7 | 94,8 | 0,75 | 0,82 | 0,84 | 144 | 740 | 94,0 | 94,7 | 94,9 | 0,70 | 0,80 | 0,82 | 135 |
| 90 | 125 | 735 | 94,0 | 94,8 | 95,0 | 0,73 | 0,80 | 0,86 | 167 | 740 | 93,6 | 94,6 | 95,1 | 0,68 | 0,76 | 0,82 | 161 |

Notes:

- The motors can also operate at a 60Hz supply. The change in performance data can be obtained directly from the local WEG representative.
- The values shown herewith are subjected to change without prior notice.



Non Sparking Top Premium Efficiency Multivoltage Motors

EE_x nA IIC T3

| | | | | | | | | | | | | 400V | | | | | | |
|--------|----|--------------|------------------------|------------------|--------------------------------|--------------------------------|------------------|--|--------------|-----------------|--------------------------|----------------|----|-----|--------------------|----|-----|-----------------------|
| Output | | Frame IEC | C _n (Nm) | I/I _n | T _f /T _n | T _b /T _n | Inertia J Kgm | Allowable locket rortor time Hot/Cold (s) | Weight Kg | Sound dB (A) | rpm min ⁻¹ | % of full load | | | | | | I _n (A) |
| KW | HP | | | | | | | | | | | Efficiency η | | | Power Factor Cos φ | | | |
| | | | | | | | | | | | | 50 | 75 | 100 | 50 | 75 | 100 | |

II Pole - 3000 min⁻¹

| | | | | | | | | | | | | | | | | | | |
|------|------|--------|-------|------|-----|-----|---------|--------|-----|----|------|------|------|------|------|------|------|------|
| 4 | 5,5 | 112M | 13,2 | 8,50 | 2,6 | 3,1 | 0,00842 | 21/46 | 46 | 64 | 2900 | 88,7 | 89,8 | 89,8 | 0,61 | 0,79 | 0,85 | 7,56 |
| 5,5 | 7,5 | 132S | 17,9 | 8,50 | 2,5 | 3,0 | 0,02056 | 19/42 | 62 | 68 | 2940 | 90,1 | 91,2 | 91,3 | 0,70 | 0,80 | 0,85 | 10,2 |
| 7,5 | 10 | 132S | 24,4 | 8,50 | 2,7 | 3,1 | 0,02804 | 8/18 | 75 | 68 | 2940 | 89,0 | 91,3 | 91,6 | 0,72 | 0,83 | 0,87 | 13,6 |
| 9,2 | 12,5 | 132M | 30,0 | 8,50 | 2,4 | 2,9 | 0,02430 | 8/18 | 60 | 68 | 2930 | 91,1 | 92,1 | 92,3 | 0,65 | 0,78 | 0,85 | 16,9 |
| 11 | 15 | 160M | 35,6 | 8,60 | 2,3 | 3,0 | 0,05295 | 12/26 | 110 | 70 | 2950 | 91,7 | 93,0 | 93,0 | 0,65 | 0,78 | 0,83 | 20,6 |
| 15 | 20 | 160M | 48,7 | 8,30 | 2,4 | 2,9 | 0,05883 | 11/24 | 115 | 70 | 2945 | 92,2 | 93,3 | 93,3 | 0,71 | 0,81 | 0,84 | 27,6 |
| 18,5 | 25 | 160L | 60,0 | 9,00 | 2,3 | 2,7 | 0,06766 | 11/24 | 136 | 70 | 2945 | 92,9 | 93,8 | 93,8 | 0,67 | 0,79 | 0,85 | 33,5 |
| 22 | 30 | 180M | 71,3 | 8,60 | 2,8 | 2,7 | 0,15082 | 9/20 | 180 | 70 | 2950 | 93,2 | 94,3 | 94,1 | 0,77 | 0,84 | 0,87 | 38,8 |
| 30 | 40 | 200L | 97,0 | 7,60 | 2,7 | 2,4 | 0,20630 | 35/77 | 245 | 74 | 2955 | 92,6 | 93,9 | 94,2 | 0,75 | 0,83 | 0,86 | 53,5 |
| 37 | 50 | 200L | 119 | 8,40 | 2,6 | 2,6 | 0,22424 | 16/35 | 260 | 74 | 2960 | 93,3 | 94,2 | 94,4 | 0,76 | 0,84 | 0,87 | 65,0 |
| 45 | 60 | 225S/M | 142,4 | 8,50 | 2,4 | 2,9 | 0,39464 | 16/35 | 385 | 78 | 2960 | 95,0 | 95,6 | 95,4 | 0,80 | 0,88 | 0,90 | 75,6 |
| 55 | 75 | 250S/M | 178 | 8,50 | 2,3 | 3,0 | 0,52021 | 18/40 | 470 | 78 | 2960 | 94,7 | 95,5 | 95,3 | 0,85 | 0,89 | 0,91 | 91,5 |
| 75 | 100 | 280S/M | 241 | 7,00 | 1,6 | 2,6 | 1,27083 | 36/79 | 700 | 79 | 2975 | 95,2 | 96,1 | 96,0 | 0,83 | 0,88 | 0,89 | 127 |
| 90 | 125 | 280S/M | 289 | 8,00 | 2,2 | 2,7 | 1,36497 | 59/130 | 740 | 79 | 2975 | 94,3 | 95,4 | 96,0 | 0,82 | 0,87 | 0,89 | 152 |
| 110 | 150 | 315S/M | 353 | 8,00 | 1,8 | 2,6 | 1,50617 | 25/55 | 830 | 81 | 2975 | 95,2 | 96,4 | 96,4 | 0,76 | 0,84 | 0,88 | 187 |
| 132 | 175 | 315S/M | 424 | 7,80 | 1,9 | 2,6 | 1,74151 | 30/66 | 900 | 81 | 2975 | 95,5 | 96,6 | 96,6 | 0,79 | 0,87 | 0,89 | 222 |
| 160 | 220 | 315S/M | 514 | 8,20 | 1,9 | 2,6 | 2,11806 | 30/66 | 990 | 81 | 2975 | 95,5 | 96,6 | 96,6 | 0,79 | 0,86 | 0,89 | 269 |

IV Pole - 1500 min⁻¹

| | | | | | | | | | | | | | | | | | | |
|------|-----|--------|------|------|-----|-----|---------|-------|------|----|------|------|------|------|------|------|------|------|
| 4 | 5,5 | 112M | 26,4 | 6,60 | 2,0 | 2,6 | 0,01875 | 8/18 | 49 | 55 | 1445 | 87,4 | 89,0 | 89,3 | 0,66 | 0,77 | 0,83 | 7,79 |
| 5,5 | 7,5 | 132S | 35,9 | 8,00 | 2,5 | 3,0 | 0,05427 | 10/22 | 75 | 58 | 1465 | 88,5 | 90,1 | 90,7 | 0,70 | 0,78 | 0,85 | 10,3 |
| 7,5 | 10 | 132M | 48,9 | 8,00 | 2,5 | 3,0 | 0,06590 | 7/15 | 85 | 58 | 1465 | 89,0 | 91,1 | 91,7 | 0,71 | 0,81 | 0,85 | 13,9 |
| 11 | 15 | 160M | 71,5 | 7,50 | 2,8 | 3,0 | 0,11040 | 12/26 | 135 | 62 | 1470 | 91,1 | 92,3 | 92,6 | 0,62 | 0,73 | 0,80 | 21,4 |
| 15 | 20 | 160L | 97,8 | 6,30 | 2,0 | 2,4 | 0,11542 | 11/24 | 130 | 62 | 1465 | 91,1 | 92,4 | 92,9 | 0,65 | 0,76 | 0,82 | 28,4 |
| 18,5 | 25 | 180M | 120 | 8,30 | 2,7 | 2,8 | 0,17939 | 12/26 | 175 | 64 | 1470 | 92,1 | 93,2 | 93,6 | 0,70 | 0,81 | 0,85 | 33,6 |
| 22 | 30 | 180L | 143 | 8,60 | 2,8 | 2,9 | 0,25115 | 11/24 | 225 | 64 | 1475 | 92,9 | 94,0 | 94,3 | 0,68 | 0,78 | 0,84 | 40,1 |
| 30 | 40 | 200L | 194 | 7,30 | 2,7 | 2,9 | 0,38611 | 19/42 | 280 | 67 | 1480 | 94,0 | 94,7 | 94,5 | 0,65 | 0,76 | 0,82 | 55,9 |
| 37 | 50 | 225S/M | 240 | 7,20 | 2,2 | 2,7 | 0,69987 | 14/31 | 380 | 70 | 1475 | 93,6 | 94,7 | 94,9 | 0,77 | 0,85 | 0,88 | 63,9 |
| 45 | 60 | 225S/M | 291 | 7,50 | 2,3 | 2,8 | 0,83984 | 17/37 | 400 | 70 | 1480 | 93,9 | 94,7 | 94,7 | 0,78 | 0,86 | 0,89 | 77,1 |
| 55 | 75 | 250S/M | 356 | 8,00 | 2,4 | 2,8 | 1,15478 | 9/20 | 470 | 70 | 1475 | 93,9 | 94,9 | 95,2 | 0,80 | 0,87 | 0,89 | 93,7 |
| 75 | 100 | 280S/M | 483 | 7,40 | 2,2 | 2,4 | 2,16799 | 21/46 | 660 | 74 | 1485 | 94,5 | 95,5 | 95,8 | 0,77 | 0,85 | 0,87 | 130 |
| 90 | 125 | 280S/M | 579 | 8,10 | 2,4 | 2,6 | 2,81036 | 22/48 | 800 | 74 | 1485 | 95,0 | 95,7 | 96,0 | 0,78 | 0,85 | 0,88 | 154 |
| 110 | 150 | 315S/M | 708 | 8,00 | 2,4 | 2,6 | 3,21184 | 29/64 | 860 | 77 | 1485 | 95,0 | 95,8 | 96,3 | 0,75 | 0,84 | 0,87 | 190 |
| 132 | 175 | 315S/M | 849 | 8,30 | 2,5 | 2,6 | 3,77391 | 34/75 | 1000 | 77 | 1485 | 95,6 | 96,3 | 96,4 | 0,76 | 0,85 | 0,87 | 227 |
| 160 | 220 | 315S/M | 1029 | 8,20 | 2,4 | 2,7 | 3,77391 | 18/40 | 1000 | 77 | 1485 | 95,7 | 96,3 | 96,5 | 0,75 | 0,84 | 0,87 | 275 |

C_n = Full load torque

I/I_n = Locked rotor current

T_f/T_n = Locked rotor torque

T_b/T_n = Breakdown torque

I_n = Full load current

Standard voltage, connection and frequency:
 220-240V Δ 50Hz 380-415V Δ 50Hz
 380-415V Y 50Hz 660-690V Y 50Hz
 440-480V Y 60Hz

High Efficiency
Exceeds
EFFI

| | | 380V | | | | | | 415V | | | | | | I _n (A) | | | | |
|--------|----|--------------------------|----------------|----|-----|--------------------|----|------|-----------------------|----------------|----|-----|--------------------|-----------------------|-----|-----------------------|--|--|
| Output | | rpm min ⁻¹ | % of full load | | | | | | I _n (A) | % of full load | | | | | | I _n (A) | | |
| KW | HP | | Efficiency η | | | Power Factor Cos φ | | | | Efficiency η | | | Power Factor Cos φ | | | | | |
| 50 | 75 | | 50 | 75 | 100 | 50 | 75 | 100 | | 50 | 75 | 100 | 50 | 75 | 100 | | | |

II Pole - 3000 min⁻¹

| | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 4 | 5,5 | 2885 | 88,2 | 89,4 | 89,6 | 0,65 | 0,83 | 0,88 | 7,71 | 2910 | 88,2 | 89,6 | 89,7 | 0,58 | 0,75 | 0,83 | 7,47 |
| 5,5 | 7,5 | 2930 | 90,3 | 91,3 | 91,2 | 0,72 | 0,82 | 0,87 | 10,5 | 2950 | 89,8 | 91,2 | 91,3 | 0,66 | 0,77 | 0,83 | 10,1 |
| 7,5 | 10 | 2930 | 89,0 | 91,3 | 91,5 | 0,76 | 0,84 | 0,88 | 14,2 | 2945 | 89,0 | 91,3 | 91,6 | 0,70 | 0,80 | 0,85 | 13,4 |
| 9,2 | 12,5 | 2920 | 91,0 | 92,0 | 92,2 | 0,70 | 0,81 | 0,87 | 17,4 | 2940 | 91,0 | 92,0 | 92,2 | 0,63 | 0,74 | 0,83 | 16,7 |
| 11 | 15 | 2945 | 91,6 | 92,8 | 92,8 | 0,72 | 0,82 | 0,85 | 21,2 | 2955 | 91,6 | 93,0 | 93,1 | 0,61 | 0,74 | 0,81 | 20,3 |
| 15 | 20 | 2940 | 92,2 | 93,1 | 93,1 | 0,74 | 0,82 | 0,85 | 28,8 | 2950 | 92,1 | 93,2 | 93,3 | 0,68 | 0,80 | 0,83 | 26,9 |
| 18,5 | 25 | 2940 | 92,9 | 93,7 | 93,7 | 0,70 | 0,81 | 0,86 | 34,9 | 2950 | 92,8 | 93,8 | 93,8 | 0,63 | 0,77 | 0,84 | 32,7 |
| 22 | 30 | 2945 | 93,3 | 94,3 | 94,1 | 0,78 | 0,85 | 0,88 | 40,4 | 2955 | 93,0 | 94,2 | 94,0 | 0,75 | 0,83 | 0,86 | 37,9 |
| 30 | 40 | 2950 | 92,5 | 93,9 | 94,2 | 0,76 | 0,84 | 0,87 | 55,6 | 2960 | 92,6 | 93,9 | 94,2 | 0,74 | 0,82 | 0,85 | 52,1 |
| 37 | 50 | 2955 | 93,5 | 94,3 | 94,3 | 0,81 | 0,86 | 0,88 | 67,7 | 2960 | 93,0 | 94,0 | 94,4 | 0,73 | 0,82 | 0,86 | 63,4 |
| 45 | 60 | 2955 | 94,9 | 95,5 | 95,3 | 0,82 | 0,89 | 0,91 | 78,8 | 2965 | 94,7 | 95,6 | 95,4 | 0,77 | 0,86 | 0,88 | 74,6 |
| 55 | 75 | 2955 | 94,3 | 95,2 | 95,1 | 0,86 | 0,90 | 0,92 | 95,5 | 2960 | 94,6 | 95,5 | 95,4 | 0,83 | 0,88 | 0,90 | 89,1 |
| 75 | 100 | 2970 | 95,0 | 95,9 | 95,9 | 0,84 | 0,89 | 0,90 | 132 | 2975 | 95,2 | 96,2 | 96,1 | 0,80 | 0,86 | 0,88 | 123 |
| 90 | 125 | 2970 | 94,3 | 95,4 | 96,0 | 0,83 | 0,88 | 0,90 | 158 | 2975 | 94,3 | 95,4 | 96,0 | 0,80 | 0,86 | 0,88 | 148 |
| 110 | 150 | 2970 | 95,2 | 96,4 | 96,4 | 0,78 | 0,85 | 0,89 | 195 | 2975 | 95,0 | 96,3 | 96,3 | 0,72 | 0,82 | 0,87 | 183 |
| 132 | 175 | 2970 | 95,5 | 96,6 | 96,6 | 0,81 | 0,88 | 0,89 | 233 | 2975 | 95,3 | 96,5 | 96,5 | 0,75 | 0,86 | 0,88 | 216 |
| 160 | 220 | 2970 | 95,5 | 96,4 | 96,5 | 0,81 | 0,87 | 0,90 | 280 | 2975 | 95,3 | 96,5 | 96,6 | 0,77 | 0,85 | 0,88 | 262 |

IV Pole - 1500 min⁻¹

| | | | | | | | | | | | | | | | | | |
|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 4 | 5,5 | 1440 | 87,5 | 88,7 | 88,9 | 0,70 | 0,80 | 0,85 | 8,04 | 1450 | 87,3 | 89,0 | 89,2 | 0,62 | 0,74 | 0,81 | 7,70 |
| 5,5 | 7,5 | 1460 | 89,0 | 90,0 | 90,5 | 0,72 | 0,80 | 0,86 | 10,7 | 1470 | 88,0 | 89,9 | 90,6 | 0,67 | 0,75 | 0,83 | 10,2 |
| 7,5 | 10 | 1460 | 89,5 | 91,0 | 91,5 | 0,73 | 0,82 | 0,86 | 14,5 | 1470 | 88,0 | 91,0 | 91,7 | 0,68 | 0,80 | 0,84 | 13,5 |
| 11 | 15 | 1465 | 91,0 | 92,2 | 92,5 | 0,64 | 0,75 | 0,82 | 22,0 | 1475 | 91,0 | 92,2 | 92,6 | 0,60 | 0,70 | 0,78 | 21,2 |
| 15 | 20 | 1460 | 91,2 | 92,3 | 92,8 | 0,70 | 0,79 | 0,84 | 29,2 | 1470 | 91,0 | 92,3 | 92,8 | 0,60 | 0,73 | 0,80 | 28,1 |
| 18,5 | 25 | 1465 | 92,0 | 93,2 | 93,5 | 0,73 | 0,84 | 0,87 | 34,6 | 1475 | 92,0 | 93,2 | 93,6 | 0,65 | 0,78 | 0,84 | 32,7 |
| 22 | 30 | 1470 | 93,0 | 94,0 | 94,3 | 0,70 | 0,80 | 0,85 | 41,7 | 1475 | 92,5 | 93,9 | 94,3 | 0,66 | 0,76 | 0,83 | 39,1 |
| 30 | 40 | 1475 | 94,1 | 94,6 | 94,4 | 0,69 | 0,79 | 0,84 | 57,5 | 1480 | 93,8 | 94,5 | 94,5 | 0,60 | 0,73 | 0,80 | 55,2 |
| 37 | 50 | 1475 | 93,5 | 94,7 | 94,9 | 0,78 | 0,86 | 0,89 | 66,6 | 1480 | 93,3 | 94,6 | 94,8 | 0,76 | 0,84 | 0,87 | 62,4 |
| 45 | 60 | 1475 | 94,0 | 94,8 | 94,5 | 0,79 | 0,87 | 0,90 | 80,4 | 1480 | 93,8 | 94,7 | 94,8 | 0,76 | 0,85 | 0,88 | 75,0 |
| 55 | 75 | 1475 | 94,0 | 94,8 | 95,2 | 0,81 | 0,88 | 0,90 | 97,5 | 1480 | 93,8 | 94,8 | 95,1 | 0,79 | 0,86 | 0,88 | 91,4 |
| 75 | 100 | 1480 | 94,6 | 95,5 | 95,8 | 0,79 | 0,86 | 0,88 | 135 | 1485 | 94,3 | 95,5 | 95,7 | 0,75 | 0,84 | 0,86 | 127 |
| 90 | 125 | 1485 | 95,0 | 95,6 | 95,9 | 0,80 | 0,86 | 0,89 | 160 | 1485 | 95,0 | 95,7 | 96,0 | 0,75 | 0,84 | 0,87 | 150 |
| 110 | 150 | 1480 | 95,0 | 95,8 | 96,2 | 0,76 | 0,85 | 0,88 | 197 | 1485 | 94,8 | 95,7 | 96,2 | 0,73 | 0,83 | 0,86 | 185 |
| 132 | 175 | 1480 | 95,5 | 96,3 | 96,3 | 0,78 | 0,86 | 0,88 | 237 | 1485 | 95,5 | 96,2 | 96,4 | 0,73 | 0,84 | 0,86 | 222 |
| 160 | 220 | 1480 | 95,8 | 96,3 | 96,5 | 0,77 | 0,85 | 0,88 | 286 | 1485 | 95,5 | 96,2 | 96,5 | 0,70 | 0,83 | 0,85 | 271 |

Notes:

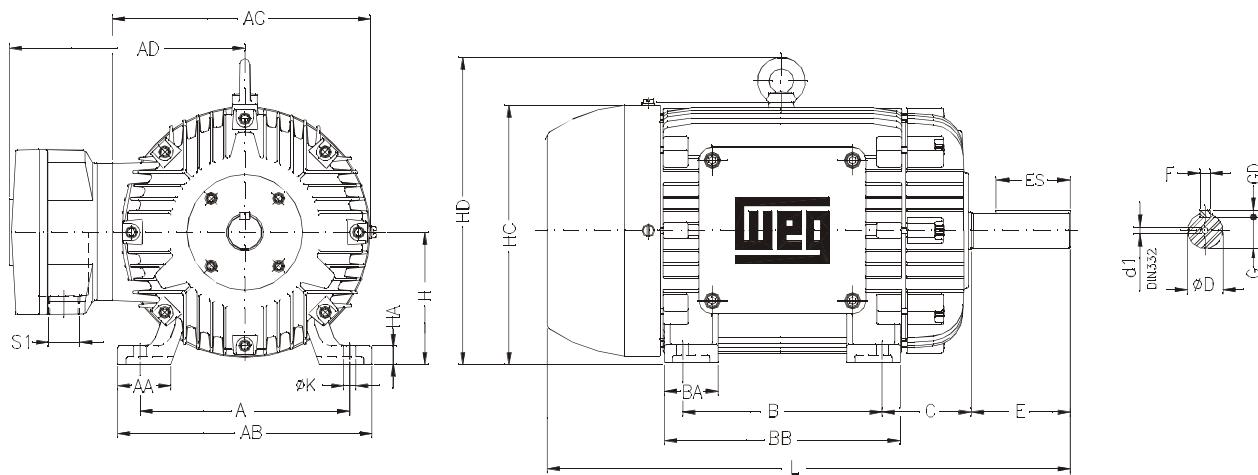
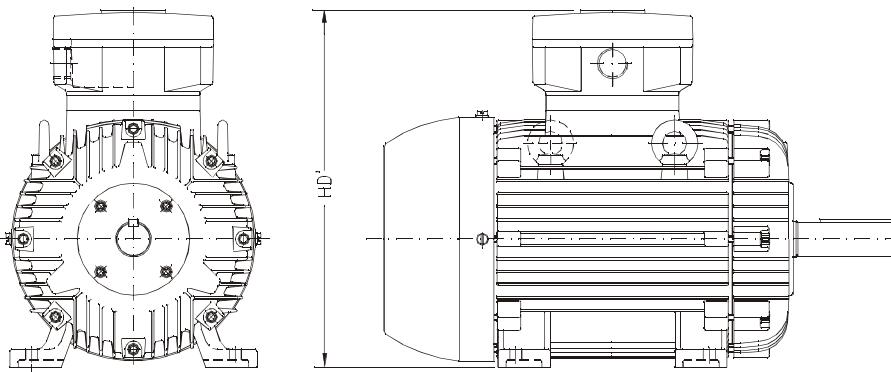
- The motors can also operate at a 60Hz supply. The change in performance data can be obtained directly from the local WEG representative.
- The values shown herewith are subjected to change without prior notice.



EEx d - Explosion Proof Multivoltage Motors

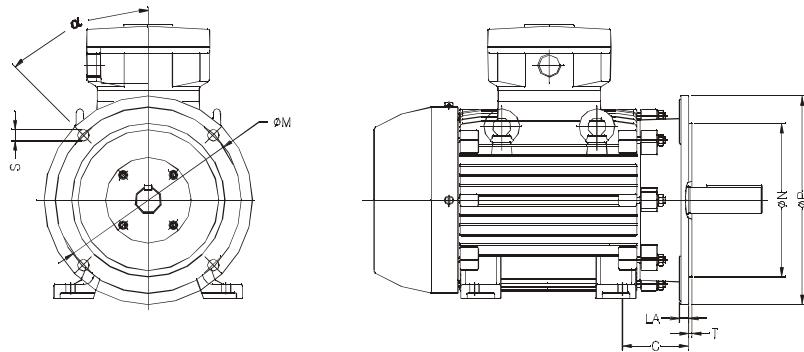
EEx de - Explosion Proof Multivoltage Motors with Increased Safety Terminal Box

Mechanical Data



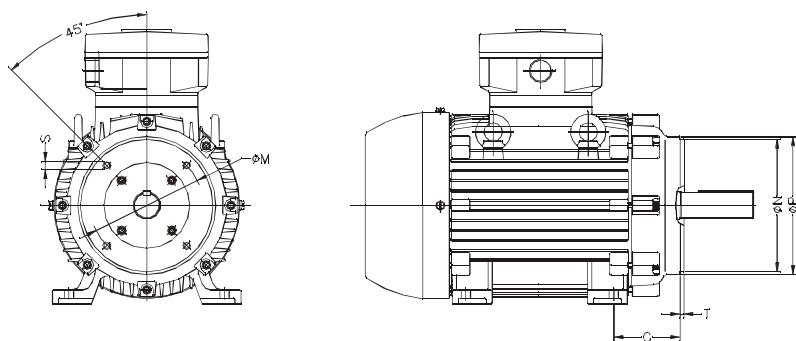
| FRAME | A | AA | AB | AC | AD | B | BA | BB | C | SHAFT DIMENSIONS | | | | | | H | HA | HC | HD | HD' | K | L | S1 | d1 | BEARINGS | | |
|-------|--------|-----|-----|-----|-----|-----|-----|-----|-----|------------------|-------|-------|------|-----|------|------|--------|-----|------|------|------|---------------|---------------|---------------|---------------|-----------|---------|
| | | | | | | | | | | D | E | ES | F | G | GD | D.E. | O.D.E. | | | | | | | | | | |
| SP | 140 | 38 | 164 | 179 | 214 | 100 | 42 | 131 | 56 | 24j6 | 50 | 36 | 8 | 20 | 7 | 90 | 12 | 177 | - | 304 | 10 | 316 | M25 x 1.5 | DM8 | 6205-ZZ | 6204-ZZ | |
| SP | 160 | 44 | 188 | 199 | 224 | 125 | 50 | 173 | 63 | 28j6 | 60 | 45 | 24 | 100 | 15 | 200 | 324 | 384 | 394 | 12 | 394 | 451 | M32 x 1.5 | DM10 | 6206-ZZ | 6205-ZZ | |
| SP | 112M | 190 | 48 | 220 | 223 | 243 | 140 | 50 | 183 | 70 | 28k6 | 80 | 63 | 10 | 33 | 132 | 17 | 237 | 222 | 355 | 489 | 489 | M32 x 1.5 | DM12 | 6308-ZZ | 6207-ZZ | |
| SP | 132S | 216 | 51 | 248 | 270 | 271 | 55 | 188 | 89 | 38k6 | 110 | 42.5 | 9 | 180 | 28 | 367 | 422 | 522 | 598 | 652 | 729 | 2 x M40 x 1.5 | DM16 | 6309-C3 | 6209-Z-C3 | | |
| SP | 132M | 216 | 51 | 248 | 270 | 271 | 178 | 226 | 226 | 38k6 | 110 | 42.5 | 9 | 180 | 28 | 367 | 422 | 522 | 664 | 702 | 767 | 2 x M50 x 1.5 | 6311-C3 | 6211-Z-C3 | | | |
| SP | 160M | 254 | 64 | 308 | 312 | 322 | 210 | 65 | 254 | 108 | 42k6 | 110 | 42.5 | 9 | 200 | 30 | 403 | 477 | 570 | 847 | 847 | 817 | 2 x M50 x 1.5 | 6312-C3 | 6212-Z-C3 | | |
| SP | 160L | 254 | 64 | 308 | 312 | 322 | 254 | 254 | 298 | 108 | 42k6 | 110 | 42.5 | 9 | 225 | 34 | 475 | 550 | 638 | 923 | 923 | 6314-C3 | M20 | 6316-C3 | 6316-C3 | | |
| SP | 180M | 279 | 80 | 350 | 358 | 342 | 241 | 75 | 294 | 121 | 48k6 | 110 | 42.5 | 9 | 250 | 58 | 500 | 575 | 663 | 1036 | 1036 | 1126 | 2 x M63 x 1.5 | 6316-C3 | 6314-C3 | | |
| SP | 180L | 279 | 80 | 350 | 358 | 342 | 279 | 279 | 332 | 332 | 48k6 | 110 | 42.5 | 9 | 280 | 67.5 | 600 | 693 | 831 | 1156 | 1156 | 1399 | 2 x M63 x 1.5 | 6316-C3 | 6314-C3 | | |
| SP | 200M | 318 | 82 | 385 | 399 | 370 | 267 | 85 | 332 | 133 | 55m6* | 110 | 49 | 10 | 300 | 403 | 477 | 570 | 18.5 | 923 | 923 | 1469 | M24 | NU-322-C3 | 6319-C3 | | |
| SP | 200L | 318 | 82 | 385 | 399 | 370 | 305 | 305 | 370 | 133 | 55m6* | 110 | 49 | 10 | 300 | 403 | 477 | 570 | 18.5 | 923 | 923 | 1469 | M24 | NU-322-C3 | 6319-C3 | | |
| SP | 225S/M | 356 | 80 | 436 | 472 | 413 | 311 | 286 | 105 | 391 | 149 | 55m6* | 110 | 53 | 18 | 250 | 42 | 500 | 575 | 663 | 1036 | 1036 | 1126 | 2 x M63 x 1.5 | 6316-C3 | 6314-C3 | |
| SP | 250S/M | 406 | 100 | 506 | 511 | 439 | 349 | 138 | 445 | 168 | 60m6* | 140 | 125 | 11 | 315 | 58 | 500 | 575 | 663 | 1126 | 1126 | 1399 | 2 x M63 x 1.5 | 6316-C3 | 6314-C3 | | |
| SP | 280S/M | 457 | 100 | 557 | 610 | 551 | 368 | 142 | 510 | 190 | 65m6* | 140 | 125 | 12 | 67.5 | 12 | 600 | 693 | 831 | 1156 | 1156 | 1469 | 2 x M63 x 1.5 | 6316-C3 | 6314-C3 | | |
| SP | 315S/M | 508 | 120 | 628 | 573 | 406 | 457 | 152 | 558 | 216 | 65m6* | 170 | 160 | 22 | 71 | 14 | 315 | 52 | 640 | 728 | 888 | 1156 | 1156 | 1399 | 2 x M63 x 1.5 | 6316-C3 | 6314-C3 |
| SP | 355M/L | 610 | 140 | 750 | 780 | 672 | 560 | 200 | 760 | 254 | 75m6* | 140 | 125 | 20 | 67.5 | 12 | 355 | 50 | 755 | 864 | 1027 | 1126 | 1126 | 1469 | M24 | NU-322-C3 | 6319-C3 |

- All the dimensions are in millimeters
- The data for frame 355M/L shown above are for horizontal mounting applications under standard coupling loads
- The customer must indicate when application is vertical or under special coupling loads
- Motors with second shaft end under request
- The average values shown are subject to change without prior notice
- * Shaft dimensions for II pole motors, only for direct coupling



| FRAME | "FF" FLANGE DIMENSIONS | | | | | | | | | n° of Holes |
|--------|------------------------|-----|----|-----|-----|-----|-----|----|---|----------------|
| | Flange | C | LA | M | N | P | T | S | α | |
| 90S/L | FF-165 | 56 | 10 | 165 | 130 | 200 | 3.5 | 12 | | |
| 100L | | 63 | | | | | | | | |
| 112M | FF-215 | 70 | 11 | 215 | 180 | 250 | 4 | 15 | | |
| 132S/M | FF-265 | 89 | 12 | 265 | 230 | 300 | | | | |
| 160M/L | FF-300 | 108 | 13 | 300 | 250 | 350 | | | | |
| 180M/L | | 121 | 14 | | | | | | | |
| 200M/L | FF-350 | 133 | | 350 | 300 | 400 | | | | |
| 225S/M | FF-400 | 149 | | 400 | 350 | 450 | | | | |
| 250S/M | FF-500 | 168 | | 500 | 450 | 550 | | | | |
| 280S/M | | 190 | | | | | | | | |
| 315S/M | FF-600 | 216 | 22 | 600 | 550 | 660 | 6 | 24 | | |
| 355M/L | FF-740 | 254 | | 740 | 680 | 800 | | | | |

Notes: 45° angle for 18 holes, 22°30' angle for 22 holes.

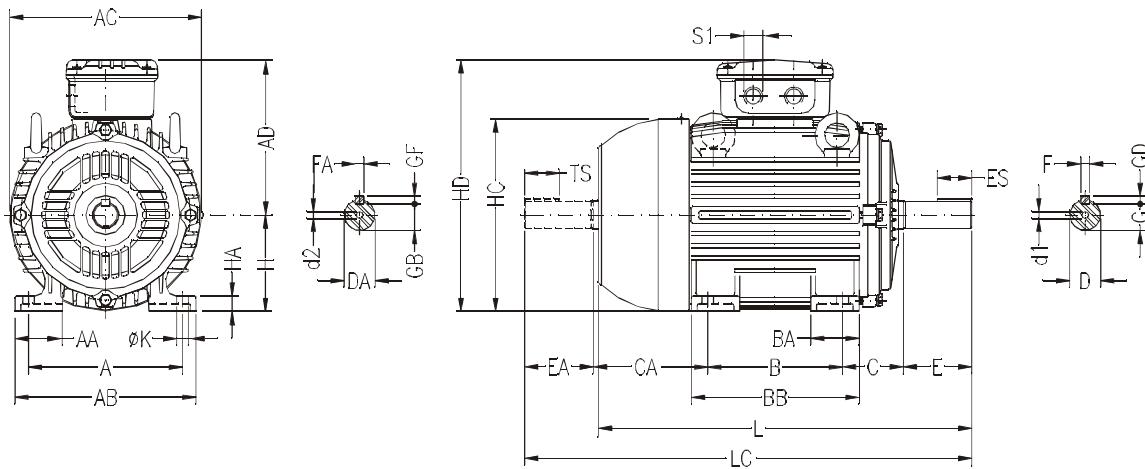


| FRAME | "C" DIN FLANGE DIMENSIONS | | | | | | | n° of Holes |
|--------|---------------------------|----|-----|-----|-----|-----|-----|----------------|
| | Flange | C | M | N | P | S | T | |
| 90S/L | C-140 | 56 | 115 | 95 | 140 | | 3 | |
| 100L | | 63 | | | | | | |
| 112M | C-160 | 70 | 130 | 110 | 160 | M8 | 3.5 | 4 |
| 132S/M | C-200 | 89 | 165 | 130 | 200 | M10 | | |

EE_x e - Increased Safety Multivoltage Motors

EE_x nA - Non Sparking Multivoltage Motors

Mechanical Data



| FRAME | A | AA | AB | AC | AD | B | BA | BB | C | CA | SHAFT DIMENSIONS | | | | | | | | | | H | HA | HC | HD | K | L | LC | S1 | d1 | d2 | BEARINGS | | | | |
|---------|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|------------------|-------|----|----|-------|----|-----|-----|------|------|-----|------|------|-----|------|------|------|-----------|-----------|-----------|----------|---------|---------|--|--|
| | | | | | | | | | | | D | E | ES | F | G | GD | DA | EA | TS | FA | GB | GF | | | | | D.E. | O.D.E. | | | | | | | |
| 63 | 100 | 21 | 116 | 125 | 130 | 80 | 22 | 95 | 40 | 78 | 118 | 23 | 14 | 4 | 8.5 | 4 | 98 | 20 | 12 | 3 | 7.2 | 3 | 63 | 8 | 124 | 193 | 7 | 216 | 241 | EM4 | EM3 | 6201-ZZ | | | |
| 71 | 112 | 30 | 132 | 141 | 138 | 90 | 38 | 113.5 | 45 | 88 | 148 | 30 | 18 | 5 | 11 | 5 | 118 | 23 | 14 | 4 | 8.5 | 4 | 71 | 12 | 138 | 206 | 7 | 248 | 276 | DM5 | EM4 | 6202-ZZ | | | |
| 80 | 125 | 35 | 149 | 159 | 147 | 100 | 40 | 125.5 | 50 | 93 | 198 | 40 | 28 | 6 | 15.5 | 6 | 148 | 30 | 18 | 11 | | | 80 | 13 | 157 | 227 | 10 | 278 | 313 | DM6 | DM4 | 6204-ZZ | | | |
| 90S | 140 | 38 | 164 | 179 | 157 | 125 | 42 | 131 | 56 | 104 | 248 | 60 | 36 | 8 | 20 | 7 | 188 | 40 | 28 | 5 | 13 | 5 | 90 | 15 | 177 | 247 | 10 | 304 | 355 | DM8 | DM6 | 6205-ZZ | | | |
| 90L | | | | | | | | | | | | | | | | | | | | | | | | | | | 329 | 375 | 2xM28x1.5 | | | | | | |
| 100L ** | 160 | 49 | 188 | 198 | 167 | 140 | 50 | 173 | 63 | 118 | 288 | 60 | 45 | 24 | 228 | 50 | 36 | 6 | 18.5 | 6 | 100 | 16 | 198 | 287 | 12 | 378 | 431 | DM10 | DM8 | 6206-ZZ | | | | | |
| 112M | 190 | 48 | 220 | 222 | 189 | 140 | 55 | 177 | 70 | 128 | 246 | | | | 246 | | | 20 | | | 112 | 16.5 | 235 | 301 | | 393 | 448 | DM10 | DM8 | 6207-ZZ | | | | | |
| 132S | 216 | 51 | 246 | 270 | 217 | 178 | 55 | 187 | 89 | 150 | 388 | 80 | 63 | 10 | 33 | 8 | 298 | 60 | 45 | 8 | 24 | 7 | 132 | 20 | 274 | 346 | | 452 | 519 | 2xM32x1.5 | DM12 | DM10 | 6208-ZZ | | |
| 132M | | | | | | | | | | | | | | | | | | | | | | | | | | | 490 | 557 | | | | | | | |
| 160M | 254 | 64 | 308 | 312 | 250 | 254 | 65 | 254 | 108 | 174 | 4246 | | | | 4246 | | | 12 | 37 | 8 | 180 | 22 | 317 | 410 | 14.5 | 598 | 712 | DM16 | 6309-C3 | 6209-Z-C3 | | | | | |
| 160L | | | | | | | | | | | | | | | | | | | | | | | | | | | 642 | 758 | 2xM40x1.5 | | | | | | |
| 180M | 279 | 80 | 350 | 358 | 270 | 241 | 75 | 294 | 121 | 200 | 488 | | | | 488 | | | 14 | 42.5 | 9 | 180 | 28 | 360 | 450 | | 664 | 782 | 6311-C3 | 6211-Z-C3 | | | | | | |
| 180L | | | | | | | | | | | | | | | | | | | | | | | | | | | 702 | 820 | | | | | | | |
| 200M | 318 | 82 | 388 | 388 | 294 | 267 | 88 | 332 | 133 | 222 | 55m6 | | | | 55m6 | | | 16 | 46 | 10 | 200 | 30 | 402 | 494 | 18.5 | 729 | 842 | DM18 | 6312-C3 | 6212-Z-C3 | | | | | |
| 200L | | | | | | | | | | | | | | | | | | | | | | | | | | | 767 | 880 | 2xM50x1.5 | | | | | | |
| 225S/M | 356 | 80 | 436 | | 478 | 368 | 105 | 391 | 149 | 280 | 55m6* | | | | 55m6* | | | 100 | 16 | 49 | 10 | 225 | 34 | 468 | 593 | | 817 | 935 | 6314-C3 | | | | | | |
| 225M | | | | | | | | | | | | | | | | | | | | | | | | | | | 847 | 995 | | | | | | | |
| 250S/M | 406 | | 508 | | | 349 | 138 | 449 | 168 | 274 | 65m6* | | | | 65m6* | | | 125 | 18 | 53 | 11 | 260 | 42 | 491 | 616 | 24 | 923 | 1071 | M20 | 6314-C3 | | | | | |
| 250M | | | 100 | | | 368 | 419 | 142 | 510 | 190 | 350 | 65m6* | | | 65m6* | | | 140 | 20 | 67.5 | 12 | 260 | 578 | 743 | | 1036 | 1168 | 2xM63x1.5 | 6316-C3 | | | | | | |
| 280S/M | 457 | | 557 | | 600 | 463 | 408 | 162 | 558 | 216 | 376 | 65m6* | | | 65m6* | | | 170 | 160 | 22 | 71 | 14 | 65m6 | | | 315 | 52 | 613 | 807 | 28 | 1128 | 1278 | 6314-C3 | | |
| 315S/M | 506 | 120 | 628 | | 492 | 467 | 162 | 558 | 216 | 325 | 80m6 | | | | 80m6 | | | 170 | 160 | 22 | 71 | 14 | 65m6 | | | 325 | 58 | | | 1156 | 1308 | 6316-C3 | | | |

• All the dimensions are in millimeters

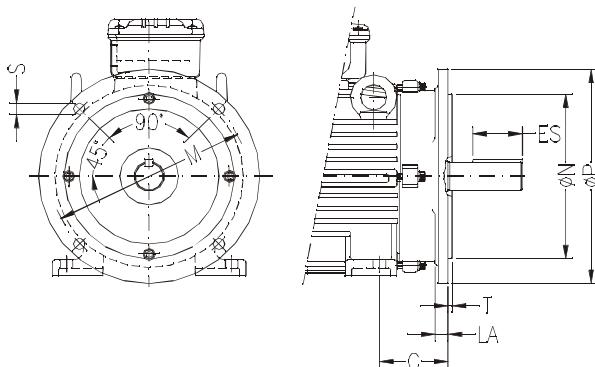
• For EE_x e motor line, please consider mechanical data only for frame sizes up to 160

• Certified threaded plugs for EE_x e motor line

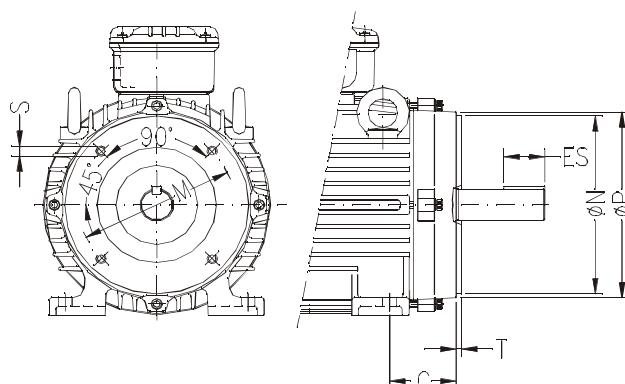
• The average values shown are subject to change without prior notice

* Shaft dimensions for II pole motors, only for direct coupling

** For frame 100L, 3 kW, 4 poles, Premium Efficiency motors, the L dimension is 420mm and LC dimension is 475mm.



| FRAME | "FF" FLANGE DIMENSIONS | | | | | | | | | n° of Holes |
|---------------|------------------------|-----|----|-----|-----|-----|-----|----|---|----------------|
| | Flange | C | LA | M | N | P | T | S | α | |
| 63 | FF-115 | 40 | | 115 | 95 | 140 | 3 | | | |
| 71 | FF-130 | 45 | | 130 | 110 | 160 | | | | |
| 80 | FF-165 | 50 | | 165 | 130 | 200 | 3.5 | | | |
| 90S/L | FF-165 | 56 | | | | | | | | |
| 100L | FF-215 | 63 | | 215 | 180 | 250 | | | | |
| 112M | FF-215 | 70 | | | | | 4 | 15 | | 45° |
| 132S/M | FF-265 | 89 | 12 | 265 | 230 | 300 | | | | |
| 160M/L | FF-300 | 108 | | 300 | 250 | 350 | | | | |
| 180M/L | FF-300 | 121 | | 350 | 300 | 400 | | | | |
| 200M/L | FF-350 | 133 | | 400 | 350 | 450 | 5 | 19 | | |
| 225S/M | FF-400 | 149 | | 500 | 450 | 550 | | | | |
| 250S/M | FF-500 | 168 | | | | | | | | |
| 280S/M | FF-500 | 190 | | | | | | | | |
| 315S/M | FF-600 | 216 | 22 | 600 | 550 | 660 | 6 | 24 | | 22°30' |
| | | | | | | | | | | 8 |



| FRAME | "C" DIN FLANGE DIMENSIONS | | | | | | | n° of Holes |
|---------------|---------------------------|----|-----|-----|-----|-----|----|----------------|
| | Flange | C | M | N | P | S | T | |
| 63 | C-90 | 40 | 75 | 60 | 90 | M5 | | |
| 71 | C-105 | 45 | 85 | 70 | 105 | | | 2.5 |
| 80 | C-120 | 50 | 100 | 80 | 120 | M6 | | |
| 90S/L | C-140 | 56 | 115 | 95 | 140 | | | 3 |
| 100L | C-160 | 63 | | 130 | 110 | 160 | M8 | |
| 112M | C-160 | 70 | | | | | | 3.5 |
| 132S/M | C-200 | 89 | 165 | 130 | 200 | M10 | | |

FULL RANGE OF PRODUCTS FOR HAZARDOUS LOCATIONS

| | | | |
|--|---|---|--|
| EXPLOSION PROOF – EEx d EXPLOSION PROOF WITH INCREASED SAFETY TERMINAL BOX – EEx de | LOW VOLTAGE MEET ATEX DIRECTIVE  90 up to 355 frames | CERTIFIED BY  | ATEX CLASSIFICATION Category 2 and 3 (gas); Groups IIA and IIB; T4 IEC CLASSIFICATION Zone 1 and 2; Groups IIA and IIB; T4 |
| | NEW LOW & MEDIUM VOLTAGE MEET ATEX DIRECTIVE  355 up to 450 frames |  | ATEX CLASSIFICATION Category 2 and 3 (gas and dust); Groups IIA and IIB; T4 IEC CLASSIFICATION Zone 1, 2, 21 and 22; Groups IIA and IIB; T4 |
| | NEW LOW VOLTAGE MEET ATEX DIRECTIVE  90 up to 400 frames | | ATEX CLASSIFICATION Category 2 and 3 (gas and dust); Groups IIA, IIB and IIC; T4 |
| | NEW MEDIUM VOLTAGE MEET ATEX DIRECTIVE  315 up to 400 frames | | IEC CLASSIFICATION Zone 1, 2 and 22 (zone 21 under request); Groups IIA, IIB and IIC; T4 |
| INCREASED SAFETY – EEx e | LOW VOLTAGE MEET ATEX DIRECTIVE  63 up to 160 frames | CERTIFIED BY  <small>Note: EEx e above 100 frames to be certified by PTB</small> | ATEX CLASSIFICATION Category 2 and 3 (gas); Groups IIA, IIB and IIC; T4 IEC CLASSIFICATION Zone 1 and 2; Groups IIA, IIB and IIC; T4 |
| | LOW & MEDIUM VOLTAGE MEET ATEX DIRECTIVE  315 up to 630 frames | CERTIFIED BY  | |
| NON SPARKING – EEx nA | LOW VOLTAGE MEET ATEX DIRECTIVE  63 up to 315 frames | Manufacturer's Claim of Compliance | |
| | LOW & MEDIUM VOLTAGE MEET ATEX DIRECTIVE  315 up to 630 frames | | ATEX CLASSIFICATION Category 3 (gas); Groups IIA, IIB and IIC; T3 IEC CLASSIFICATION Zone 2; Groups IIA, IIB and IIC; T3 |
| | NEW LOW VOLTAGE MEET ATEX DIRECTIVE  315 up to 500 frames | CERTIFIED BY  | |
| | NEW MEDIUM VOLTAGE MEET ATEX DIRECTIVE  315 up to 500 frames | Manufacturer's Claim of Compliance | |
| PRESSURIZATION – EEx p | LOW MEDIUM & HIGH VOLTAGE MEET ATEX DIRECTIVE  315 up to 1000 frames | Available on request. | ATEX CLASSIFICATION Category 2 and 3 (gas); Groups IIA, IIB and IIC IEC CLASSIFICATION Zone 1 and 2; Groups IIA, IIB and IIC |



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Note: please visit our website (www.weg.com.br) and
look for WEG's nearest branch office or representative.



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