LINES OF ELECTRONICALLY COMMUTATED MOTORS

Industrial Motors

Commercial & Appliance Motors

Automation

Digital & Systems

Energy

Transmission & Distribution

Coatings

Solutions for air movement systems





Driving efficiency and sustainability

EC Motor Lines

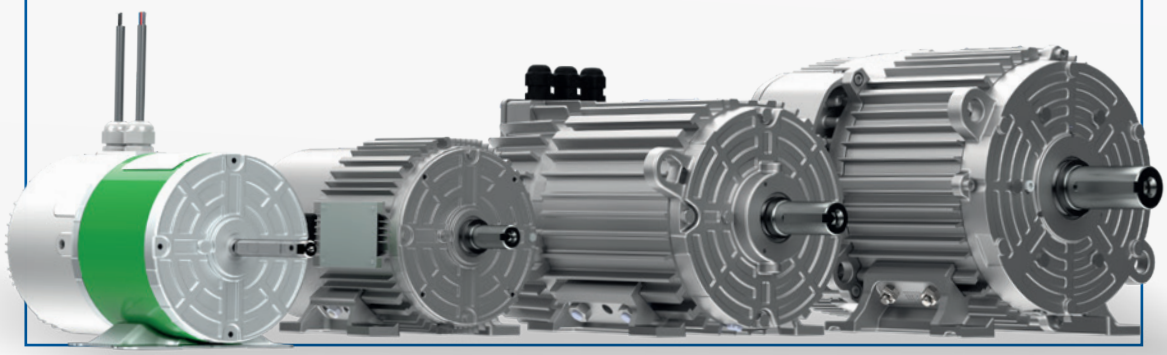


W30Slim Smart EC
For Radial Fan Applications

- Three Phase 208-240V from 1.5 HP up to 6 HP
- Three Phase 380-480V from 1.5 HP up to 10 HP

W30 Smart EC
For Axial Fan Applications

- Three Phase 380-480V from 0.16 HP up to 10 HP
- Single Phase 220-277V from 0.16 HP up to 1.5 HP



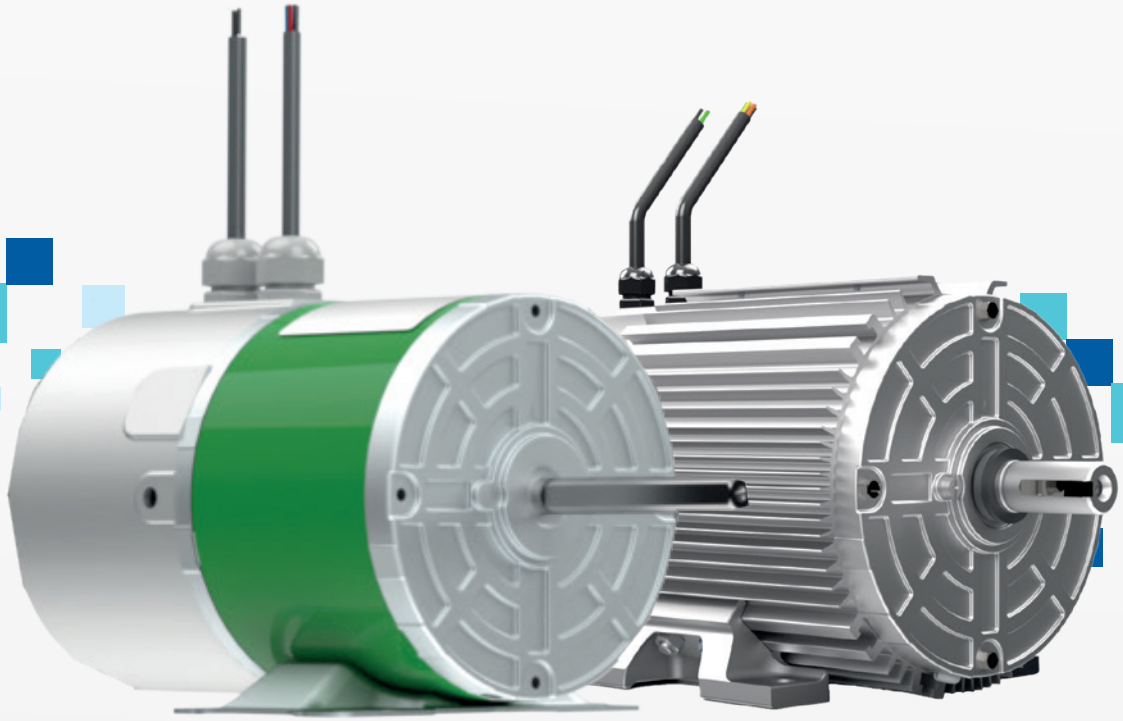
W30 Smart EC

Single-Phase Motors

- Voltage:
  - 115/208 to 277VAC: 1/6 to 1/2 HP
  - 115/220 to 277VAC: 3/4 HP
  - 220 to 277VAC: 1 to 1.5 HP
- Frequency: 50/60 Hz
- Output power: 1/6 to 1.5 HP at 1500, 1800 or 3000 rpm
- Aluminium frame / drive housing
- Protection rating: IP55
- Mounting: B3T
- Ambient temperature:
  - -20 to 40°C (TENV)[1]
  - -20 to 60°C (TEAO)[2]
- Vibration grade: A
- Direction of rotation CW/CCW (selectable)
- Continuous speed adjustment (200 to 1500/1800 rpm and 500 to 3000 rpm) by:
  - Tact buttons (local)
  - DC voltage (remote): 2 to 10 VDC
  - DC current (remote): 4 to 20 mA DC
  - PWM (remote): 10 to 95%
- Local controls optically isolated
- With drain plug and V-ring Seal
- Sealed for life bearings
- Drive-end bearing cap
- Power and control cables 500 mm long
- Electronic protection: overload, over temperature and locked-rotor.
- Fire mode (Override & Maximum speed mode)

Optional & Special features

- IEC80: Pad mounting (4 x 90° or 3 x 120°), T-slot (4 x 90° or 3 x 120°), FF-165 and FC-120 flanges
- Slinger seal for vertical shaft-up mounting 115V input power supply (up to 0.75 HP)
- Decentralized mounting (motor and drive separate)
- Custom cable lengths
- Customized shaft ends
- Double shaft ends (only with decentralised drive version)
- External controller with display to adjust maximum and instantaneous speed values.
- Blower cooling (TEBC)
- Modbus communication
- Passive PFC (Power Factor Correction)[3]



W30 Smart EC

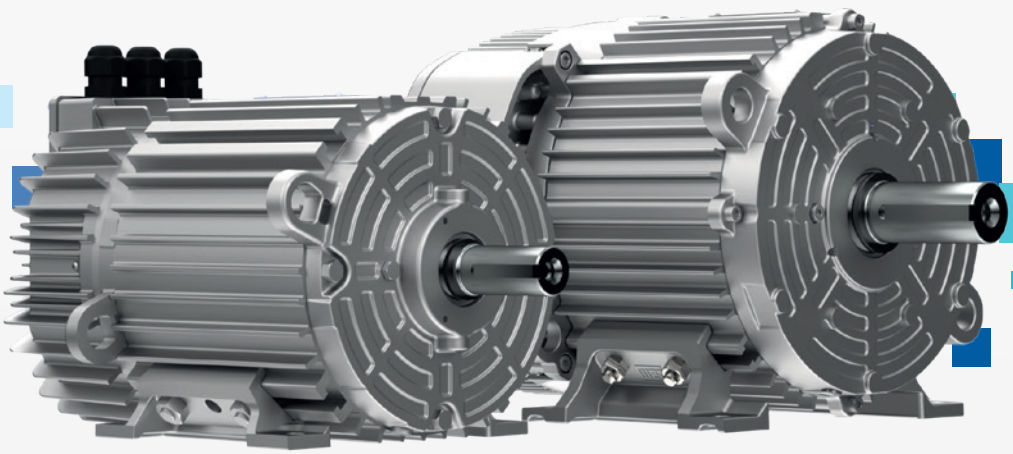
Three-Phase Motors

- Voltage: 380-480 VAC
- Frequency: 50/60 Hz
- Output power: 0.16 HP to 10 HP at 900, 1200, 1500, 1800 or 3000 rpm
- Aluminium frame / drive housing
- Protection rating: IP55
- Mounting: B3T
- Ambient temperature: -20 to 40 °C (TEAO)1
- Vibration grade A
- Direction of rotation CW/CCW (selectable)
- Frames: 80 thru 132
- Continuous speed adjustment (200 to 1500/1800 rpm and 500 to 3000 rpm) by:
  - Tact buttons (local)
  - DC voltage (remote): 2 to 10 VDC
  - DC current (remote): 4 to 20 mA DC
  - PWM (remote): 10 to 95%
  - Modbus communication
- Alarm relay (NO & NC)
- Local controls optically isolated
- With drain plug and V-ring Seal
- Sealed for life bearings
- Drive-end bearing cap
- Connection box with push-in terminals
- Electronic protection: overload, over temperature and locked-rotor.
- Fire mode (Override & Maximum speed mode)

Optional & Special features

- Pad mounting (4 x 90° or3 x 120°), T-slot (4 x 90° or 3 x 120°), FF-165 and FC-120 or FC-184 flanges
- Pad mounting (4 x 90°), T-slot (4 x 90°), FF-215 and FC-160 flanges
- Slinger seal for vertical shaft-up mounting
- Decentralised mounting (drive and motor separate)
- Power supply cable and control cable installation
- Customized shaft ends
- Double shaft ends (only with decentralised drive version)
- External controller with display to adjust maximum and instantaneous speed values
- Higher Ambient Temperature under request up to 60 °C

Notes:
[1] Totally Enclosed, Air Over rated. Minimum airflow over motor frame and drive cover 5m/s.
[2] Totally Enclosed, Non-ventilated. Refer to WEG for electrical data.



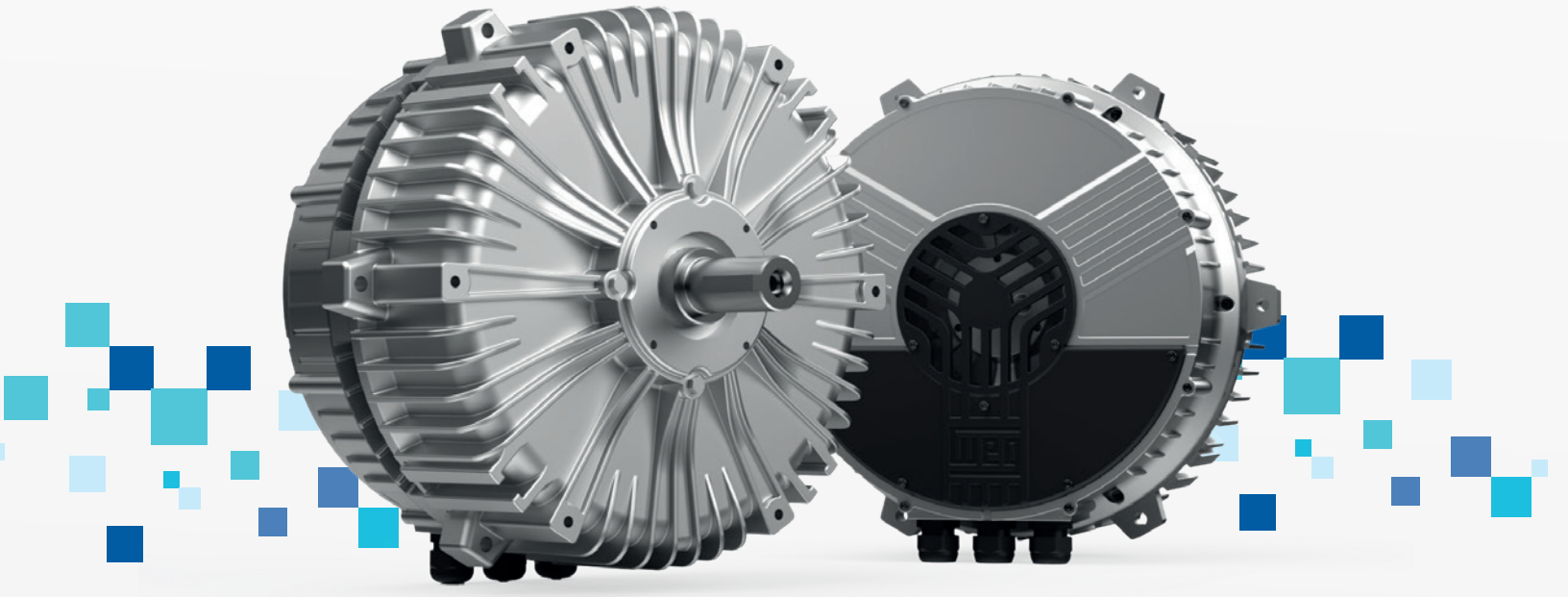
W30Slim Smart EC

Three-Phase Motors

- Voltage: 380-480 VAC
  208-240 VAC (up to 5.5 HP)
- Frequency: 50/60 Hz
- Output Power: 1.5 HP to 10 hp at 1500, 1800, 2400, 3000 or 3600 rpm
- Aluminum Housing
- Protection Rating: IP55 Standard
- Ambient temperature: -25 to 50°C
- Vibration Grade: A
- Direction of rotation CW/CCW (selectable)
- Continuous Speed Adjustment (200 to 1500, 200 to 1800, 500 to 2400, 500 to 3000, and 500 to 3600) by:
  - DC Voltage (remote): 2 to 10 VDC
  - DC Current (remote): 4 to 20 mA
  - DC PMW (remote): 10% to 95%.
- Serial communication via Modbus
- Digital Inputs: Run/Stop; CW/CCW
- Digital Output: Speed Reference in frequency
- TEFC cooling
- Mounting: Spider mounting, Flange FF, Flange C, Slot “T”
- Alarm Relay (NO & NC)
- With Drain Plug and Oil Seal
- ZZ Bearings
- Front Bearing Locking Ring
- Junction Box with screwless spring-cage connector
- Electronic Protection: Overload, Over temperature, Over voltage, Undervoltage, Timeout and Locked Rotor
- Fire Mode (Operation at maximum speed with electronic protections disabled).
- Suitable for IT Grid (High Resistance Ground or Corner Ground Delta)

Optional Features

- Up to IP66 degree of protection
- Shaft Grounding ring
- Millimeter and NPT cable gland thread
- Stainless steel cable gland
- Stainless steel shaft



WEG QuickSet

Desktop Interface for Motors



www.weg.net

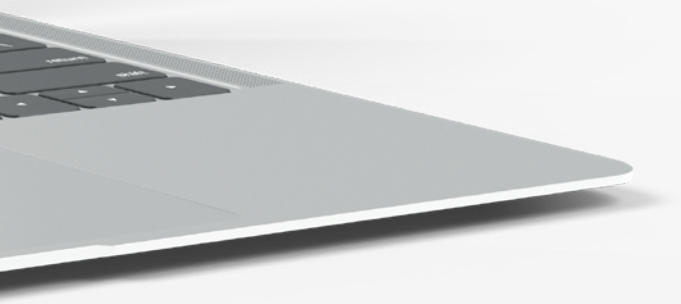
Simple
Efficient
Reliable

The ideal solution for controlling and optimizing your WEG Electronically Commutated Motors

WEG QuickSet is a smart and intuitive desktop application that makes configuring, operating, and diagnosing WEG EC motors faster and easier than ever.
Its user-friendly interface and guided wiring steps reduce setup time and prevenats configuration errors.

Key controls including ON/OFF, speed adjustment, rotation direction and real-time motor status are always at your fingertips.

Advanced adjustment options and built-in connection troubleshooting deliver flexibility and reliability, minimizing downtime and maximizing performance.



The scope of solutions from the WEG Group is not limited to the products and solutions presented in this catalog. To learn about our full portfolio, please consult us



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Subject to change without prior notice.
The information provided is for reference purposes.