

PRODUCT LINE WEG AUTOMATION

Electronic products
and systems
**enhancing
productivity**

Industrial Motors

Commercial &
Appliance Motors

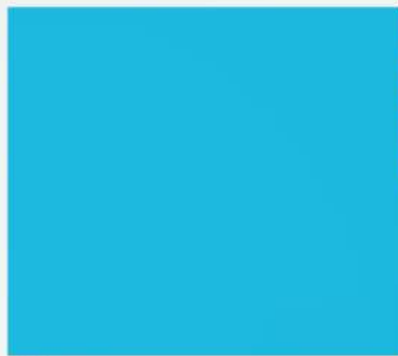
Automation

Digital &
Systems

Energy

Transmission &
Distribution

Coatings



Driving efficiency and sustainability





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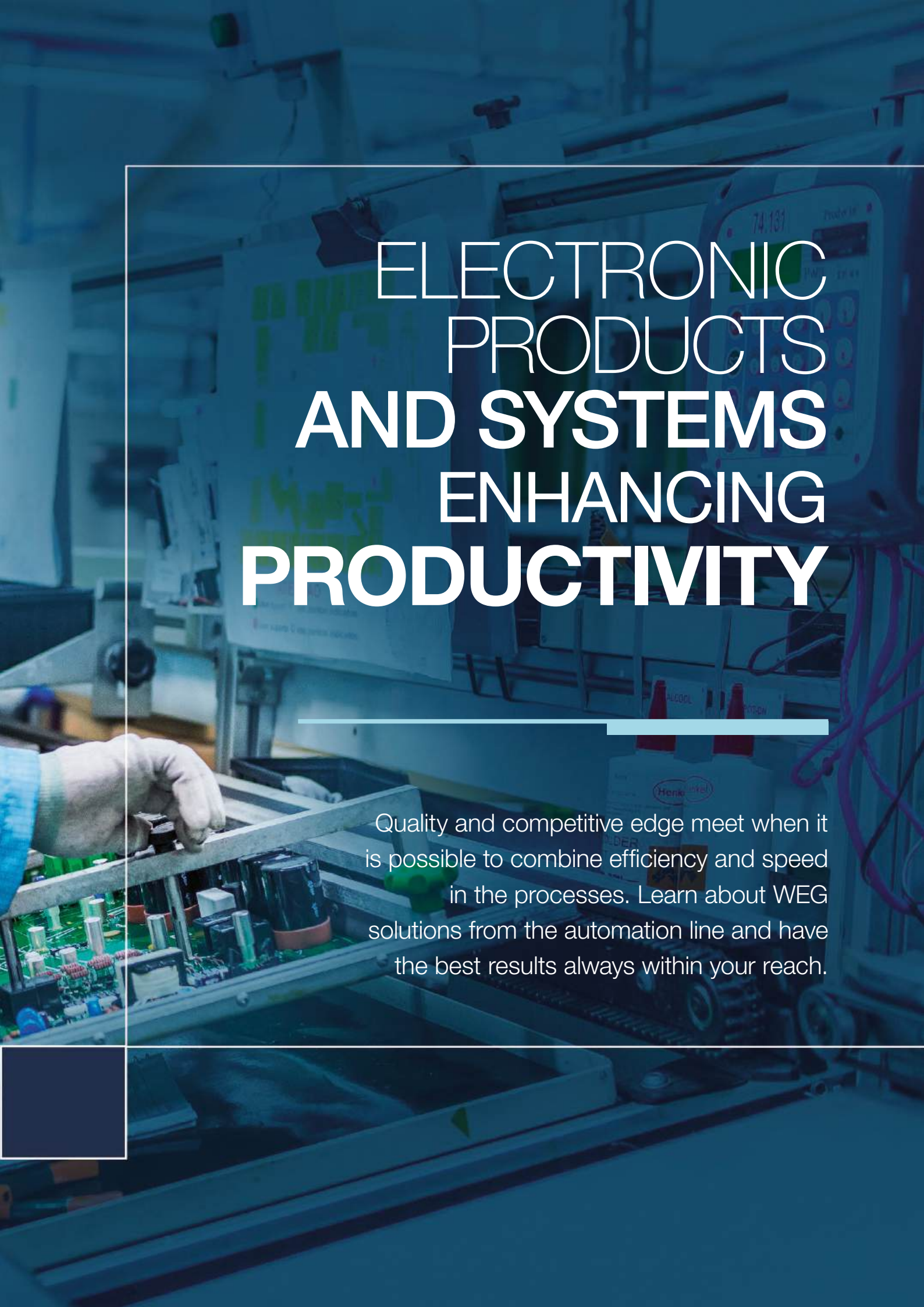
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ELECTRONIC PRODUCTS AND SYSTEMS ENHANCING PRODUCTIVITY

Quality and competitive edge meet when it is possible to combine efficiency and speed in the processes. Learn about WEG solutions from the automation line and have the best results always within your reach.

VSDs

CFW100



VSDs

- Supply voltage: 100-127 or 200-240 V (single-phase)
- Rated currents: 1.6 A to 7.3 A (0.25 cv / 0.18 kW to 2 cv / 1.5 kW)
- Vector (VVW) or scalar (V/f) control
- Built-in *SoftPLC* function
- Built-in operator interface (HMI)
- Surface or DIN-rail mounting
- IP20 protection rating
- Removable fan
- Fault or alarm diagnosis
- Various accessories for network communication, input and output expansion, RFI filter - all of them using the Plug & Play concept
- Electronic protection against motor overload
- Operator interface (HMI) included
- Free WPS programming and monitoring software
- Flash memory module (accessory)
- RS485 communication (accessory)
- Conformal coating: standard class 3C2 electronic board varnishing; 3C3 optional

CFW300



VSDs

- Rated output current 1.6 to 15.2 A (0.25 cv / 0.18 kW to 10 cv / 7.5 kW)
- Supply voltage: single-phase 110-127 V and 200-240 V and three-phase 200-240 V and 380-480 V. It also allows DC power supply
- 4 configurable digital inputs (PNP or NPN), 1 relay output 0.5 A / 250 V_{AC}, 1 analog input 0-10 V_{DC} / 4-20 mA
- Selectable V/f, quadratic V/f or VVW vector control modes
- 2 slots to expand functions such as communication or number of I/Os
- Conformal coating: standard class 3C2 electronic board varnishing; 3C3 optional
- Built-in *SoftPLC* function
- Free WPS programming and monitoring software
- IP20 protection rating
- EMC footprint filter (accessory)
- Protection, alarm and diagnosis functions
- Operator interface (HMI) with built-in LED display

VSDs

CFW500



VSDs

- Supply voltage 200-240 V, 380-480 V or 500-600 V
- Rated currents: 1.0 A to 211 A (0.33 cv / 0.25 kW to 175 cv / 132 kW)
- VVW voltage vector control - Voltage Vector WEG, and vector with or without encoder (sensorless) and control of VVW PM permanent magnet motors
- Software applications dedicated to pumping - Pump Genius
- Plug & Play concept
- Built-in *SoftPLC* function
- Free WPS programming and monitoring software
- Smart thermal management of the fan
- IP20, NEMA type 1 or IP66 (NEMA type 4X) protection rating
- LCD operator interface (HMI) with backlight
- Conformal coating: standard class 3C2 electronic board varnishing; 3C3 optional
- RFI filter according to the levels of EN 61800-3 standard (optional)
- Built-in safety functions: STO and SS1, meeting SIL 3/PL safety performance requirements and in compliance with IEC 61800-5-2, EN ISO 13849-1, EN 62061, IEC 61508 and IEC 60204-1 (available via accessory)
- Communication protocols: CANopen, DeviceNet, Profibus-DP, EtherNet/IP, Modbus-TCP, PROFINET IO, RS485 and RS232 (available by means of accessories)
- Flash memory module (optional), enabling the data transfer (parameters and applications) between inverters without turning them on

CFW11



VSDs

- Supply voltage 200-690 V
- Rated current: 3.6 to 1,141 A (2 to 950 cv)
- Plug & Play concept
- Built-in *SoftPLC* function
- IP20, IP21, NEMA1 or IP55 protection rating
- Built-in DC link inductor, eliminating the necessity to add a line reactance and complying with the requirements of IEC 61000-3-12 regarding harmonic levels
- Option of connection to a single DC link
- Built-in USB communication port
- Real-time clock
- Input and output expansion through plug-in modules
- LCD operator interface (HMI) with backlight
- RFI filter in compliance with the EN 61800-3 (optional in frames A to D and built-in in frames E to H)
- Communication protocols: CANopen, DeviceNet, Modbus, Profibus-DP, EtherNet/IP, Modbus-TCP, PROFINET IO and EtherCAT (optional)
- Safe Torque Off (STO) module for safety stop (optional):
 - Category 3 / PL d / SIL 2 with TÜV Rheinland® certification, according to EN ISO 13849-1, IEC 61800-5-2, IEC 62061 and IEC 61508
- Flash memory module (included)
- Built-in disconnecting switch on IP55 models (optional)
- Side-by-side mount, allowing the installation without space between the inverters, streamlining the panel size
- Free WPS programming and monitoring software
- Conformal coating: standard class 3C2 electronic board varnishing; 3C3 optional

VSDs

CFW900



VSDs

- Supply voltage 200-240 V, 380-480 V
- Rated currents: 2.8 A to 760 A (1.5 cv / 1.1 kW to 550 cv / 440 kW)
- Control types: scalar, VVW, sensorless vector, vector with encoder, VVW PM (permanent magnet motors)
- Memory expansion by using an SD card
- Wide power range in a small size
- Book-type cabinet design
- Special functions in the standard product:
 - Dual Port Ethernet, RS485, USB and Bluetooth®
 - STO / SS1 functional safety
 - Advanced energy saving
 - Smart thermal management
 - Modbus-RTU
- MQTT Protocol - IoT-Ready Product
- Modern graphic HMI
- Plug & Play expansion modules
- Free WPS programming and monitoring software
- Compliance with IE2 efficiency class, maximum Eco Design rating – IEC 61800-9

ADV200



Field-oriented vector inverter

- 400 V Series:
 - AC power supply: 380 -15%...480 V_{AC} +10%, 50/60 Hz
 - DC power supply: 450...750 V_{DC}
 - Power ratings: from 0.75 kW to 1.65 MW
- 690 V Series:
 - AC power supply: 500 V_{AC} -10%...690 V_{AC} +10%, 50/60 Hz
 - DC power supply: 600...1,120 V_{DC}
 - Power ratings: from 160 kW to 1.65 MW
- Motor type: asynchronous and synchronous motors
- Regulation control modes: FOC with speed feedback, open-loop FOC, V/f
- Safety stop card according to EN 954-1 (Cat.3)
- Fieldbus interface cards: Profibus, CANopen, DeviceNet, EtherCAT, Industrial Ethernet, PROFINET
- RS485 (Modbus-RTU protocol) standard product
- Modbus-TCP/IP-RTU
- Overload management for heavy and light duty services
- Certifications: CE, UL, cUL and EAC
- Efficiency class IE2
- WEG-eXpress multilingual programming SW (5 languages)
- Integrated programming keyboard



VSDs

AFW900



Compact, modern solution with new features and increased connectivity

- Power supply: three-phase 220-240 V or 380-480 V
- Rated currents: 2.8 to 242 A (1.5 cv / 1.1 kW to 175 cv / 132 kW)
- IP42 or IP55 protection rating
- Configurable accessories and filters for the CFW900 line
- Metal panel with anticorrosion treatment and set in accordance with NBR IEC 61439
- Standard or customized versions according to the needs of the project

AFW11 / AFW11C



Complete drives with frequency inverter

- Panel mounting with IP42 or IP54 protection rating
- Supply voltage: 220 to 690 V - 50/60 Hz
- Rated output current: 3 to 1,141 A
- Applicable motor: 2 to 900 cv
- Control voltage: 220 V - 50/60 Hz¹⁾
- Configurable accessories
- Assembly warranty
- Simple use
- Configurable accessories
- Metal panel with anticorrosion treatment and set in accordance with NBR IEC 61439
- Standard or customized versions according to the needs of the project

Note: 1) For other control voltages, contact WEG.

VSDs

AFW11M/AFW11W



Modular VSDs

- Solution in a compact structure, increasing reliability and simplifying maintenance
- 380 to 690 V supply voltage
- Rated output current: 439 to 3,012 A
- Applicable motor: 550 to 2,800 cv
- Features an air-cooled heatsink
- 6-pulse, 12-pulse input rectifier
- It can be configured with up to five power units (UP11) and three rectifying units (UR11), according to the current variation, plus one control unit (UC11) and connecting cables
- The power units (UP11) are directly powered by the DC link, and the control unit is powered by a +24 Vdc power supply
- Configurable accessories
- Metal panel with anticorrosion treatment and set in accordance with NBR IEC 61439
- Standard or customized versions according to the needs of the project

MVW01



Medium voltage VSDs

- Motor voltages: 2.3 kV to 6.9 kV
- Power ratings: 500 to 48,810 HP (410 to 36,360 kW)
- Power and control insulated by fiber optic
- Withdrawable power arms for quick and easy replacement
- Easy-to-use graphical operator interface (HMI)
- Compact model with standard 18-pulse rectifier
- Network communication DeviceNet, Modbus, Profibus-DP and EtherNet
- Dry-type plastic film power capacitors of high reliability and long life
- Imposed voltage
- Air or water cooling
- Internal arc proof version
- High efficiency (>99%)
- High power factor (>95%)
- Low noise level (<75 dBs)
- Low heat dissipation
- New generation G4, compatible with WEG MFM asset management software



VSDs

MVW3000



Medium voltage VSDs

- Motor voltage: 2.3 kV to 13.8 kV
- Motor current: up to 1,140 A¹⁾
- Input voltage: 2.3 kV...13.8 kV
- High-efficiency air cooling
- Compliance with IEEE 519 harmonic distortion requirements
- Fully integrated solution, reducing the system commissioning and startup time
- High power factor (>0.95)
- Optimized input harmonics; no filters required
- The sinusoidal output voltage and current reduce the motor losses, vibration, torque pulsation and motor overheating
- New generation G4, compatible with WEG MFM asset management software

Note: 1) For higher currents, please contact WEG.

AFE200



Regenerative power unit

- Active front end regenerative power supply unit
- 400 V Series
 - Power supply: 380 -15%...480 V_{AC} +10%, 50/60 Hz
 - Power ratings: from 11 kW to 1.65 MW
- 690 V Series:
 - Power supply: 500 V_{AC} -10%...690 V_{AC} +10%, 50/60 Hz
 - Power ratings: from 160 kW to 1.65 MW
- Overload management for heavy and light duty services
- "Clean energy" thanks to the unity power factor and reduced harmonic distortion (<5%)
- External LCL filter
- External EMI network filter (optional)
- Pre-charge kit
- Fieldbus interface cards: Profibus, CANopen, DeviceNet, EtherCAT, Industrial Ethernet, PROFINET
- Modbus-TCP/IP-RTU converter
- UL-cUL, CE and EAC certifications
- WEG-eXpress multilingual programming SW (5 languages)
- Integrated programming keyboard



VSDs

FFE200



Regenerative power unit

- Fundamental front end regenerative power supply unit
- 400 V Series:
 - Power supply: 380 -15%...480 V_{AC} +10%, 50/60 Hz
 - Power ratings: from 297 kW to 2.2 MW
- 690 V Series:
 - Power supply: 500 V_{AC} -10%...690 V_{AC} +10%, 50/60 Hz
 - Power ratings: from 476 kW to 3.2 MW
- Overload management for heavy and light duty services
- Fieldbus interface cards: Profibus, CANopen, DeviceNet, EtherCAT, Industrial Ethernet
- Modbus-TCP/IP-RTU converter
- WEG-eXpress multilingual programming SW (5 languages)
- Integrated programming keyboard



Dedicated drives

CFW501 HVAC



VSDs

- Supply voltage 200-240 V, 380-480 V
- Rated currents: 1.0 A to 211 A (0.33 cv / 0.25 kW to 175 cv / 132 kW)
- Control types: scalar (V/f) and voltage vector VVW - Voltage Vector WEG
- Low input harmonic distortion
- Special functions:
 - *Energy savings* - lower motor electric power consumption and higher efficiency
 - *Dry pump* - protection of the pump in case of lack of water and indication of the fault
 - Protection against short circuits increases the useful life of compressors
 - *Bypass* - the motor can be directly driven through the power line
 - *Fire mode* - when activated, the protections are disabled and the inverter continues to operate even under adverse conditions. Ideal for applications in fume extraction
 - *Broken belt* - indication of malfunction of the fan belt
- Built-in *SoftPLC* function
- *Sleep mode* - the motor is prevented from operating at low speeds for long periods, increasing the system useful life
- Free WPS programming and monitoring software
- Conformal coating: standard class 3C2 electronic board varnishing; 3C3 optional



Dedicated drives

ADV200-WA



VSDs

- 400 V Series:
 - AC power supply: 380 -15%...480 V_{AC} +10%, 50/60 Hz
 - DC power supply: 450...750 V_{DC}
 - Power ratings: from 1.5 kW to 1.8 MW
- 690 V Series:
 - AC power supply: 500 V_{AC} -10%...690 V_{AC} +10%, 50/60 Hz
 - DC power supply: 600...1,120 V_{DC}
 - Power ratings: from 200 kW to 1.8 MW
- Asynchronous motor control
- Regulation control modes: open-loop FOC, V/f
- Integrated DC coil up to 160 kW
- Safety stop card according to EN 954-1 (Cat.3)
- IEC 61131-3 PLC environment
- Standard line with RS485 (Modbus-RTU protocol)
- Modbus-TCP/IP-RTU
- Fieldbus interface: Profibus, CANopen, DeviceNet, EtherCAT, Industrial Ethernet
- Main HVAC functions:
 - Uninterrupted operation and bypass
 - Skip resonance frequencies
 - Belt break alarm
 - Schedule timer (built-in timers with real time clock)

CFW500 - Solar Drive



Solar pump

- Power supply: 200-240 V_{AC} / 310 V_{DC}; 380-480 V_{AC} / 540 V_{DC}
- Current ranges: 1.0 A to 211 A (0.25 cv / 0.18 kW to 150 cv / 110 kW)
- SoftPLC: with customized functions for solar application
- Double PID: DC voltage control with maximum power point tracking (MPPT) and pressure control tube by connecting a transducer
- Modbus-RTU communication through RS485 as standard
- Sleep/Wake up function
- Scalar control
- Side-by-side mounting possible
- Off-grid systems

Dedicated drives

CFW11 – Solar Drive



Solar pump

- Power supply: 380-480 V
- Current range: 242 A, 312 A, 370 A
- SoftPLC: with customized functions for solar application
- Overload current of 150% for 60 seconds and ambient temperature up to 50 °C

ADV200-SP



VSDs

- Power supply:
 - DC: 330...800 V_{DC}
 - AC: 380 V_{AC} -15%...480 V_{AC} +10%, 50/60 Hz, ±5%
- MPPT voltage range: 350...750 V_{DC}
- Rated power: 1.5 to 400 kW + parallels up to 1.8 MW
- Motor type: asynchronous
- Control: V/f, OL vector control
- Functions: Integrated MPPT, dual source control, dual PID, specific functions for pump control and protection
- System configuration: isolated (PV only), dual-feed (PV or 2nd AC), hybrid (PV source and 2nd AC)
- Communication: Modbus-RTU (RS485 port), Modbus-TCP/IP-RTU converter optional
- Fieldbus: Profibus, CANopen, DeviceNet, EtherCAT, Industrial Ethernet
- Keyboard: integrated advanced LCD keyboard
- Overload:
 - ND: 110% x I_n (for 60")
 - HD: 150% x I_n (1' every 5'), 180% x I_n (for 0.5")
- Certification: CE, cULus, EAC, CMIM



Dedicated drives

MW500



Motor drive

- Power supply: single-phase 200-240 V or three-phase 380-480 V
- Rated currents: 1.3 A to 16 A (0.5 cv / 0.37 kW to 10 cv / 7.5 kW)
- Built-in *SoftPLC* function
- NEMA 4x/IP66 protection rating
- RFI filter according to the levels of EN 61800-3 standard (optional)
- It can be coupled to the WEG W22 motor line or wall mounted
- Built-in disconnecting switch (optional)
- LEDs for status indication
- Free WPS programming and monitoring software
- Compatible with the plug-in modules of the CFW500 line
- Conformal coating: standard class 3C2 electronic board varnishing; 3C3 optional
- CANopen, DeviceNet, Profibus-DP, Modbus-RTU, EtherNet/IP, Modbus-TCP, PROFINET IO connectivity
- Built-in safety functions: STO and SS1, meeting SIL 3/PL safety performance requirements and in compliance with IEC 61800-5-2, EN ISO 13849-1, EN 62061, IEC 61508 and IEC 60204-1 (available via accessory)

ADV200-HC



Variable speed drive

- 400 V Series:
 - Power supply: 380 -15%...480 V_{AC} +10%, 50/60 Hz
 - DC power supply: 450...750 V_{DC}
 - Power ratings: from 0.75 kW to 1.65 MW
- 690 V Series:
 - Power supply: 500 V_{AC} -10%...690 V_{AC} +10%, 50/60 Hz
 - DC power supply: 600...1,120 V_{DC}
 - Power ratings: from 160 kW to 1.65 MW
- Motor type: asynchronous and synchronous motors
- Regulation control modes: FOC with speed feedback, open-loop FOC, V/f
- Safety stop card according to EN 954-1 (Cat.3)
- Fieldbus interface cards: Profibus, CANopen, DeviceNet, EtherCAT, Industrial Ethernet, PROFINET
- Custom functions for hoist and crane applications
- IEC 61131-3 PLC Environment
- RS485 (Modbus-RTU protocol)
- Modbus-TCP/IP-RTU
- Overload management for heavy and light duty services
- Certifications: CE, UL, cUL and EAC
- Efficiency class IE2
- WEG-eXpress multilingual programming SW (5 languages)
- Integrated programming keyboard

Dedicated drives

ADP200



VSDs

- Applications: hybrid injection molding, die casting, servo-hydraulic presses, servo-hydraulic presses and bending machines
- Power supply: 3-phase 230-400-480 V (-15% / +10%) @ 50/60Hz
- Rated power: 4 to 37 kW (3 x 230 V); 7.5 to 75 kW (3 x 400 V)
- Motor type: synchronous
- Control: closed-loop FOC
- Feedback: resolver, optional cards for digital TTL / sinusoidal / Endat-SSI / SinCos / hyperface
- Functions: dedicated PID for flow and pressure control, control of the pressure sensor status
- Control of the pressure sensor status, adaptive feedforward, pressure variation damping, automatic switching between pressure and flow control
- System configuration: single and multiple pump control
- Communication: Modbus-RTU (RS485 port), CANopen
- Smart communication: SD card to save the parameter set
- Keyboard: built-in basic LED keyboard, optional advanced LCD keyboard
- Cabinet: IP20
- Overload: 170% x In (for 60 seconds), 200% x In (for 3 seconds)
- EMI filter (optional)
- Certification: CE, cULus, EAC

ADLS10



Inverter for elevators - low rise and upgrade

- Power supply: 3-phase 380-400 V (-15% / +10%) @ 50/60Hz
- Rated power: 4 to 15 kW
- Motor type: geared (asynchronous)
- Control: Sensorless Scalar Control (SSC), Field Oriented Control (Asyn FOC)
- Encoder: sinusoidal and TTL/HTL incremental digital encoder interface
- Elevator control mode: multi-speed (EFC)
- Functions: energy saving calculator
- Communication: Modbus-TCP (RJ45 port) for direct or LAN connection
- Keyboard: optional advanced LCD keyboard
- Cabinet: IP20
- Overload: 183% x 10s
- EMI filter: integrated in -F version (optional)
- Battery power supply: -EMS version (48-96 Vdc) for emergency (optional)
- Wizards: inverter setup, startup, optimization and troubleshooting
- Certification: CE, cULus, EAC, EN 81-20, EN 81-50

Dedicated drives

ADL530



Inverter for elevators - medium rise

- Power supply: 3-phase 230-400-480 V (-15% / +10%) @ 50/60 Hz
- Rated power: 2 to 7.5 kW (3 x 230 V); 4 to 15 kW (3 x 400 V)
- Motor type: geared (asynchronous), gearless (synchronous)
- Control: Sensorless Scalar Control (SSC), CL Field Oriented Control (Asyn and Syn FOC)
- Encoder: universal multi-encoder interface (sinusoidal and digital incremental TTL/HTL / Endat / Biss / SinCos / SSI)
- Elevator control mode: Multi-speed (EFC), CANopen Lift 417
- Functions: energy saving calculator, anti-roll back
- Communication: Modbus-TCP (RJ45 port) for direct connection or LAN direct connection or LAN, CANopen 301 and 417
- Multifunctional USB port, optional Wi-Fi module for the WEG_Liftouch application interface
- Optional Advanced LCD HMI
- Cabinet: IP20
- Overload: 183% x 10s
- EMI filter: integrated in -F version (optional)
- Battery power supply: -EMS version (48-96 Vdc) for emergency (optional)
- Wizards: inverter setup, startup, optimization and troubleshooting
- Certification: CE, cULus, EAC, EN 81-20, EN 81-50

ADL550



Inverter for elevators - high rise

- Power supply: 3-phase 230-400-480 V (-15% / +10%) @ 50/60 Hz
- Rated power: 2 to 7.5 kW (3 x 230 V); 4 to 15 kW (3 x 400 V)
- Motor type: geared (asynchronous), gearless (synchronous)
- Control: Sensorless Scalar Control (SSC), CL Field Oriented Control (Asyn and Syn FOC)
- Encoder: universal multi-encoder interface (sinusoidal and digital incremental TTL/HTL / Endat / Biss / SinCos / SSI)
- Elevator control mode: Multi-speed (EFC), CANopen Lift 417, direct approach position control (EPC)
- Functions: energy saving calculator, anti-roll back, safety functions, peripheral encoder control, standby
- Safety: STO SIL3, safe brake test, electronic brake control (with EBC500 module)
- Communication: Modbus-TCP (RJ45 port) for direct connection or LAN direct connection or LAN, CANopen 301 and 417
- Multifunctional USB port, optional Wi-Fi module for the WEG_Liftouch application interface
- Optional advanced LCD Keypad HMI
- Expansion card: for extending inputs and outputs
- Cabinet: IP20
- Overload: 183% x 10s, 200% x 2s
- Operating temperature up to 50 °C (with no derating)
- EMI filter: integrated in -F version (optional)
- Battery power supply: -EMS version (48-96 Vdc) for emergency (optional)
- Wizards: inverter setup, startup, optimization and troubleshooting
- Certification: CE, cULus, EAC, EN 81-20, EN 81-50

Dedicated drives

ADL300



VSDs

- Power supply: single-phase x 200-230 V ($\pm 10\%$), 3-phase x 200-230 V ($\pm 10\%$), 3-phase x 230-400 V-480 V_{AC} (-15% / +10%) @ 50/60 Hz
- Rated power: 1.1 to 5.5 kW (1 x 230 V); 5.5 to 37 kW (3 x 230 V); 4 to 75 kW (3 x 400 V)
- 2 versions: advanced (modular design), basic (integrated I/O and encoder)
- Motor type: geared (asynchronous), gearless (synchronous)
- Control: Sensorless Scalar Control (SSC), OL and CL Field Oriented Control (OL and CL Flux Vector)
- Encoder: various cards for digital TTL / sinusoidal / Endat-SSI / SinCos / hyperface)
- Elevator control mode: Multi-speed (EFC), CANopen Lift 417, direct approach position control (EPC)
- Functions: safety function, peripheral encoder control, standby (version -24)
- Safety: STO SIL3
- Communication: Modbus-RTU (RS232 port), CANopen 301 and 417 (-C version), DCP3, DCP4
- Smart communication: SD card to save the parameter set
- Keyboard: built-in basic LED keyboard, optional advanced LCD keyboard
- Cabinet: IP20
- Overload: 200% x 10s
- EMI filter: built-in in the -F version
- Certification: CE, cULus, EAC, EN 81-20, EN 81-50

Soft-starters

SSW05



Soft-starters

- Current: 3 to 85 A
- Voltage: 220 to 575 V
- Built-in bypass
- Digital processor (DSP) control
- Electronic thermal relay
- Built-in motor protections
- High efficiency
- Compact
- Simple electrical installation
- Easy to operate, adjust and service
- Extended motor and equipment lifespan without mechanical shocks
- Conformal coating: standard class 3C2 electronic board varnishing; 3C3 optional

Soft-starters

SSW07



Soft-starters

- Currents: 17 to 412 A
- Voltage: 220 to 575 V
- Built-in bypass
- Full electronic motor protection
- *Kick start* function to start loads with high static friction
- Electronic thermal relay
- Switched-mode power supply of the electronics with EMC filter (110 to 220 V)
- Thermal image (monitoring of the electronics voltage, allowing the backup of the current and voltage values)
- Simple electrical installation
- Interconnection with Fieldbus communication networks: Modbus-RTU and DeviceNet (optional)
- Operator interface - HMI (optional)
- Free WPS programming and monitoring software
- Conformal coating: standard class 3C2 electronic board varnishing; 3C3 optional

SSW08



Soft-starters

- Currents: 17 to 412 A
- Voltage: 220 to 575 V
- Built-in bypass
- Full electronic motor protection
- *Kick start* function to start loads with high static friction
- Electronic thermal relay
- Switched-mode power supply of the electronics with EMC filter (110 to 220 V)
- Thermal image (monitoring of the electronics voltage, allowing the backup of the current and voltage values)
- Simple electrical installation
- Interconnection with Fieldbus communication networks: Modbus-RTU and DeviceNet (optional)
- Operator interface - HMI (optional)
- Free WPS programming and monitoring software
- Conformal coating: standard class 3C2 electronic board varnishing; 3C3 optional

Soft-starters

SSW900



Soft-starters

- Currents: 10 to 1,400 A
- Versions for 220 to 575 V_{AC} or 380 to 690 V_{AC}
- Oriented startup
- Option of standard connection (3 cables) or motor inside delta connection (6 cables)
- HMI with Bluetooth® connectivity for monitoring and parameterization via smartphone or tablet
- *Pump control* function for smart control of pumping systems that prevent water hammer and pressure overshoots in the hydraulic piping
- Integral motor thermal protection
- Built-in *SoftPLC* function
- Longer lifespan of the motor and equipment
- Limitation of voltage drops at the start
- Great reduction of the forces on the couplings and on the transmission devices (gearboxes, pulleys, gears, belts, etc.) during the start
- Three braking methods to stop the motor and the load faster. Braking methods with or without a contactor
- Built-in bypass: minimizing power losses and heat dissipation in the thyristors, providing space reduction, contributing to energy saving and increasing the product lifespan
- Free WPS programming and monitoring software
- Conformal coating: standard class 3C2 electronic board varnishing; 3C3 optional



ASW07



Panel mounted soft-starter

- Supply voltage 220 to 480 V
- Rated current 17 to 412 A
- IP42 protection rating (IP54 on demand)
- Metal panel with anticorrosion treatment and set in accordance with NBR IEC 61439
- Standard or customized versions according to the needs of the project

Soft-starters

ASW900



Panel mounted soft-starter

- Supply voltage 220 to 480 V
- Rated current 10 to 1,400 A
- IP42 protection rating (IP54 on demand)
- Configurable accessories
- Metal panel with anticorrosion treatment and set in accordance with NBR IEC 61439
- Standard or customized versions according to the project requirements
- Advanced features for greater motor control and protection

SCA06



Servo drives

- Supply voltage 220-230 V or 380-480 V
- High performance
- Precise motion control
- Closed loop operation
- Position feedback through resolver
- Control and power with independent power supplies
- Flexibility and integration to the drive
- Simple operation: positioning via parameters
- HMI with 6-digit LED display
- USB port
- CANopen / DeviceNet in the standard version
- Free WPS programming and monitoring software
- RFI filter (optional)
- Built-in *SoftPLC* function
- Conformal coating: standard class 3C2 electronic board varnishing; 3C3 optional



Servo drives

SWA



Servomotors

- Power supply 220 V_{AC} or 380 V_{AC}
- Torque: 0.8 to 40 Nm
- Servomotor option with electromagnetic brake at 24 V_{DC}
- IP65 protection rating
- Internal thermal protector (PTC) 155°
- Rare-earths (neodymium, iron, boron) magnets

Voltage regulators

ECW500



Automatic voltage regulators

- Synchronous machine drives with brushless excitation
- HMI with 2.5" display
- Supply voltage
 - 85/242 V_{AC} (50/60 Hz)
 - 85/150 V_{DC}
- Field current: 20 A
- Five control modes:
 - MTVC - Voltage control
 - MECC - Current control
 - MTVC_DROOP - Voltage control with reactive droop
 - MPFC - Power factor control
 - MRPC - Reactive power control
- RS485/422 communication



AC/DC converters

CTW900



AC/DC converters

- Drive and control of direct current (DC) motors
- Rated currents: 20 to 2,000 A
- Speed or torque control
- Simplified connections for power and control
- Internal supply for the field bridge
- Operator interface (HMI) with LCD display
- USB port for serial communication and software update
- Built-in *SoftPLC* function
- Free programming and monitoring software applications
- Memory card for backup of parameters and software applications
- 3 options for speed feedback: incremental encoder, DC tacogenerator or counter-electromotive force (CEMF)
- Network communication. DeviceNet, Profibus-DP, EtherNet/IP, Modbus-TCP, PROFINET IO, RS485 and RS232
- Conformal coating: standard class 3C2 electronic board varnishing; 3C3 optional

SBM200



AC/DC three-phase power supply

- AC/DC power supply
- 400 V_{AC} line:
 - Power supply: 230 V_{AC} -10%...500 V_{AC} +10%, 50/60 Hz
 - Rated power: from 490 kW to 3.8 MW - 150% overload
- 690 V_{AC} line:
 - Power supply: 500 V_{AC} -10%...690 V_{AC} +10%, 50/60 Hz
 - Rated power: from 700 kW to 6.6 MW - 150% overload
- The SBM200 is suitable for powering single and multiple DC/AC inverters connected to a common DC link
- Certification: CE

AC/DC converters

SM32



AC/DC three-phase power supply

- AC/DC power supply
- 400 V_{AC} line:
 - Power supply: 230 V_{AC} -10%...480 V_{AC} +10%, 50/60 Hz
 - Rated power: from 100 kW to 1.6 MW - 150% overload
- 690 V_{AC} line:
 - Power supply: 500 V_{AC} -10%...690 V_{AC} +10%, 50/60 Hz
 - Rated power: from 745 kW to 1.3 MW - 150% overload
- The SM32 is suitable for powering single and multiple DC/AC inverters connected to a common DC link
- Certification: CE



Remote units

RUW100



Remote units

- Allows expanding digital, analog, thermocouple, Pt-100, Pt-1000 and load cell inputs and outputs, and relay outputs
- Modular, flexible and easy-to-integrate system
- Available in three main modules and ten expansion modules
- Supports up to 8 expansion modules per main unit, enabling the customization of automation systems
- 24 V_{DC} power supply
- Connectivity to Modbus (RS485) and CANopen (CAN) networks and complete integration with the process network

Programmable logic controllers - PLCs

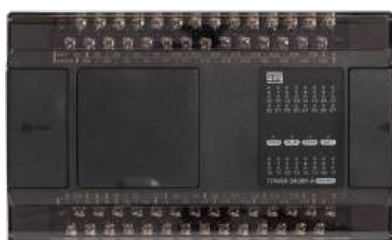
Clic02 3rd



Programmable logic controllers

- Maximum configuration of 55 I/O points, using up to three expansions
- 12 V_{DC}, 24 V_{DC} or 110/220 V_{AC} - 50/60 Hz power supply
- Real time clock
- Online message view and parameter change
- Fast inputs up to 1 kHz
- Burst and PWM output
- Modbus communication
- LCD display (4 lines x 16 characters)
- Arithmetic functions (addition/subtraction/multiplication/division)
- PID control function
- Free Clic Edit programming software
- Programming in ladder or function diagram block

TPW04



Programmable logic controllers

- Equipment dedicated to automation
- Streamlined high-speed counter, pulsed output and interpolation function for positioning control
- Multiple communication protocols supported
- High processing speed of 0.18 microsecond/step
- High memory capacity
- Easy installation of input and output expansions
- Expandable up to 384 points
- Several types of expansion boards: digital, analog and communication function

PLC300



Programmable logic controllers

- PLC300 logic controller, versions with and without HMI
- 10 digital inputs and 1 analog input
- 9 digital outputs (1 fast and 1 analog)
- Battery voltage monitoring, informing when to change without losing the application
- PWM ramp function
- Internal flash memory that allows automatic recovery of the resource in case of battery failure
- 5 built-in ports: EtherNet, CANopen, RS232, RS485 and USB
- Expansion of digital and analog inputs and outputs via CANopen or CFW11 modules
- SD (Secure Device)¹⁾ memory card to store data, programs and event logs
- Programming in ladder language via WPS software (WEG Programming Suite), according to IEC 61131-3
- Built-in encoder input (100 kHz)

Note: 1) SD card not included.

Programmable logic controllers - PLCs

PLC200



Programmable logic controllers

- Extremely compact and modular design
- Powerful 400 MHz Cortex M7 RAM processor
- Flash Memory / Retentive RAM / Non-retentive RAM - 1 MB / 4 KB / 128 KB
- Digital inputs / Digital outputs 8 / 4 (PNP)
- 4 fast dual channel inputs up to 150 kHz
- Ethernet protocol supported: Modbus-TCP / EtherNet/IP (adapter)
- Serial protocols supported: Modbus-RTU¹⁾ or CANopen²⁾
- IoT protocols (MQTT: publisher/subscriber)
- Micro USB port for programming
- 1x Ethernet port
- 1x RS485¹⁾ or CAN²⁾ port
- Up to 08 local expansions supported

Notes: 1) PLC200 model supports the Modbus-RTU protocol.
2) PLC201 model supports the CANopen protocol.

PLC410



Programmable logic controllers

- DUAL core 400 MHz + COP processor 200 MHz
- RAM / flash memory: 265 MB / 4 GB
- Memory data / codes / retentive / persistent: 8 MB / 16 MB / 64 kB / 16 kB
- Digital inputs/outputs: 8 / 8 (PNP)
- Protocols supported: CANopen / Modbus-RTU / Modbus-TCP / EtherNet/IP / EtherCAT / PROFINET
- Up to 08 local expansions supported
- 4x fast inputs at up to 150 kHz
- MQTT protocol

PLC500



Programmable logic controllers

- Standard, Edge Device and Motion Controller versions
- IMX Dual Core 1 GHz Processor + Coprocessor @240 MHz
- RAM / flash memory: 1 GB / 4 GB
- Extremely compact and modular design
- Control of up to 32 axes in the Motion Controller version
- Digital inputs / digital outputs: 8 / 8 (PNP)
- 4x fast inputs at up to 150 kHz
- Protocols supported: CANopen / Modbus-RTU / Modbus-TCP / EtherNet/IP / EtherCAT / PROFINET
- MicroSD card slot
- USB host input
- USB programming input
- 2x Gigabit Ethernet ports
- Up to 08 local expansions supported
- MQTT protocol

Operator interfaces

MT



Operator interfaces

- Available sizes: 4.3" and 7"
- Low power consumption
- Lifespan of over 30,000 operating hours
- Resistive touchscreen
- Free EasyBuilder Pro programming software
- Remote access to the HMI via EasyAccess 2.0 activation card
- 10/100 Base-T Ethernet port
- 128 MB RAM
- 256 MB flash memory
- RS232 and RS485 communication supported

cMTx



Operator interfaces

- Available sizes: 7", 10.1" and 15.6"
- Capacitive screen for 15.6" models
- Programming function activation via CODESYS®
- Remote access to the HMI via EasyAccess 2.0 activation card
- MQTT protocol
- Multi-touch screen
- 4 GB RAM
- 1 MB flash memory
- 10.1" models support Wi-Fi connection module
- Modbus-RTU and TCP/CANopen and SAE J1939

Free software applications

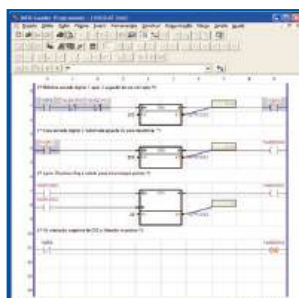
WPS



WEG Programming Suite

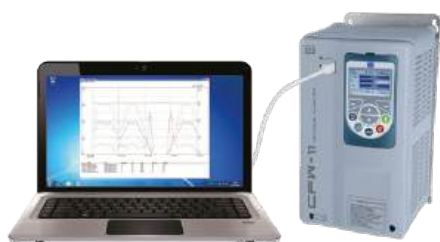
- Integrated tool, even software, enabling programming and monitoring of PLC, servo drive and frequency inverters
- Logic monitoring and online charts, recipe edition, file handling of the SD card
- Software application development
- SoftPLC logic programming using ladder language according to IEC 61131-3
- Mathematical PLC blocks, counters, timers
- Saving of software application (via SoftPLC)
- USB or Bluetooth® connection
- Communication with the inverter, servo drive and soft-starter lines
- Parameter setting, control and indication
- Programming wizard
- Online help and monitoring

WLP



WEG Ladder Programmer

- Software application development
- Function programming
- SoftPLC
- Ladder language
- Mathematical PLC control blocks
- Monitoring and online help
- USB connection

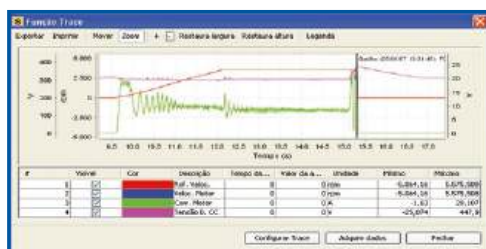


SuperDrive G2

- USB connection with inverter, servo drive and soft-starters
- Parameter setting, control and indication
- Saving of software application (via SoftPLC)
- Online help and monitoring

Free software applications

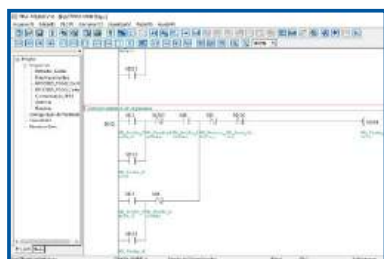
Trace function



- Customizable tool that monitors and stores variable logs in the inverter memory, activated by an event (e.g. overload)
- Registration and graphical view of the inverter variables
- Excellent tool for troubleshooting in remote locations
- Oscilloscope simulation
- Included with SuperDrive G2 and WPS software

Available on the website: www.weg.net

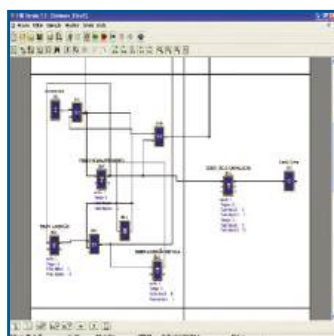
TPW



PC Link

- Software for programming TPW controllers
- Programming in ladder language
- Online monitoring and through charts
- Hot download (PLC in *RUN* mode)

Click Edit V3



- Clic02 3rd programming
- Language in Portuguese type Ladder or FBD
- Online monitoring and editing

Available on the website: www.weg.net

Motor start and protection

CWB



Contactors

- Modern solution for currents up to 225 A (AC-3)
- Built-in auxiliary contacts 1NO + 1NC
- Low energy consumption DC coils allow direct drive of the contactors via PLCs, inverter or soft-starter outputs without the need of an interface relay
- Also available with extended voltage range electronic coils
- More compact assemblies of motor starters
- Developed according to IEC 60947 and UL 60947
- Wide range of accessories

CWM



Contactors

- Options from 9 to 800 A (AC-3)
- 3-pole and 4-pole contactors
- Quick mounting on 35 mm DIN rail or screw mounting
- Contactors available in several voltages and command frequencies (AC or DC)
- Direct mounting of contactors on overload relays up to 105 A
- Wide range of accessories
- Easy connection busbars for star-delta or reversing starters interconnection, allowing fast mounting and minimizing space

CWC0



Compact contactors

- Complete line from 7 to 22 A (AC-3)
- Quick mounting on 35 mm DIN rail or screw mounting
- Built-in auxiliary contacts up to 16 A
- Low-consumption DC coils, allowing direct connection to PLCs
- Direct mounting on RW17 overload relays
- Same dimensions (AC or DC coil) for models up to 16 A

RW



Thermal overload relays

- Current setting range from 0.28 to 840 A
- Tripping class 10
- Versions allowing direct mounting to compact contactors/contactors, screw mounting or DIN rail mounting with accessory
- Adjustable multifunction key with the functions *HAND*, *SELF*, *H* or *A*
- Auxiliary contacts 1NO + 1NC

Motor start and protection

RW_E



Electronic overload relay

- Three-pole electronic overload relay with selectable trip class: 10, 20 and 30
- Current setting range from 0.4 to 840 A
- Phase loss protection (time delay <5 seconds)
- Phase imbalance protection (>40% between phases)
- Temperature compensated
- Automatic, local (manual) or remote reset via 24 V signal
- Direct mounting on CWB9...38 and CWM9...105 contactors
- Individual mounting is possible with accessories
- Auxiliary contacts 1NO + 1NC

MPW



Motor protective circuit breakers

- Motor-protective circuit breakers with high short-circuit breaking capacity up to 100 A ($U_e \leq 690$ V)
- Compact solution up to 40 A with 45 mm wide, and up to 80 A with 54 mm wide
- Motor start and protection up to 40 cv at 220 V and 75 cv at 380/440 V
- Adjustable thermal releases to protect the motor against overload
- Magnetic releases for short circuit protection fixed at 13xIn

PDW



Starters

- Three-phase contactors in thermoplastic enclosures up to 40 cv at 220 V and 75 cv at 380/440 V, and single-phase contactors
- Delta-star starters in thermoplastic enclosures up to 25 cv at 220 V and 50 cv at 380 V
- Delta-star, reduced-voltage and series-parallel starters in metallic enclosure starting from 15 cv

Motor start and protection

RTW17, RMW17, RIEW17, RNW, ERWT AND ERWM



Electronic relays

- LEDs for status indication
- Simple setup and operation
- Adjustments via external selector switches
- High-reliability contacts
- Excellent accuracy, repeatability and noise immunity
- Mounting on DIN rail or screw mounting
- Compact enclosure 17.5 mm and 22.5 mm wide
- Available models:
 - Timers: simple function and timing (RTW17), multi timing (RTW-MAT) or multifunction (ERWT)
 - RIEW digital impulse relay: control of automation systems in homes, hotels and commercial or residential buildings
 - Voltage monitoring relays: single monitoring (RMW17) or multifunction (ERMW)
 - Level relays: filling and draining (RNW)

SRW01



Smart relays

- Reliability and accuracy in monitoring, operation and protection of low voltage electric motors
- Supply voltage 24 V_{AC} / V_{DC} or 110/240 V_{AC} / V_{DC}
- Plug & Play concept
- Modular design
- Communication networks: Modbus-RTU, Profibus-DP, DeviceNet or Ethernet
- USB port
- Free programming software - WLP (WEG Ladder Programming)
- Optional items:
 - Operator interface (HMI) for door panel mounting: monitoring, parameterization and operation with Copy function and serial communication
 - Current and voltage or current units of measurement
 - Current Unit of Measurement (CUM): current monitoring on the three motor phases
 - Current and Voltage Measuring Unit (CVMU): current monitoring on the three motor phases, voltage monitoring up to 690 V, phase sequence, power factor and other motor power ratings, allowing the management of electric energy consumption in kWh

Push buttons and pilot lights

CSW, CSW-M and CEW



Pushbuttons, selector switches and pilot lights

- Developed for different types of applications, harsh and industrial environments
- Options with IP65 protection rating
- Illumination blocks with integrated LED (high efficiency)
- Quick and easy mounting system
- High-reliability auxiliary contacts
- Wide range of accessories

LTW



Tower lights

- Modular product that allows the assembly of up to 5 indication modules
- Easy identification of machine and equipment status
- Continuous or flashing indication modules
- Audible module (buzzer)
- IP55 protection rating

Circuit protection

MMW



Multimeters of electrical quantities

- Measurement of electrical quantities, THD, individual harmonics and direct and reverse energy
- Memory for up to 10 years of records depending on version
- LED display, alphanumerical LCD or graphic LCD
- Communication with RS485 isolated serial output, Modbus-RTU protocol and a version with Modbus-TCP and MQTT Ethernet port (IoT ready)
- Simple and easy parameter setting via front keys or remotely
- Configurable digital inputs and outputs
- Phase sequence and phase loss indication and current and voltage presence indication
- Compatible with WEG Energy Management software

Circuit protection

MSW



Compact switch-disconnectors

- Rated currents: 12 to 160 A
- Developed according to IEC 60947-3
- Compliance with the requirements of NR12 standard
- Modern and compact design for simple installation
- Complete line of accessories
- Terminals with IP20 protection rating
- Handle with IP65 protection rating
- Handles allow using up to 3 padlocks
- Handles allow door interlocking
- ON/OFF indication on the handle in Portuguese, as required by Brazilian NR12 standard
- Base mounting or top mounting

RIW



Rotary switch-disconnectors

- Rated currents: 100 to 1,250 A
- Developed according to international standards IEC 60947-3 and IEC 60947-1
- Housing in self-extinguishing thermoplastic (flammability class V0)
- Auxiliary contact installed on the switch
- Complete line of accessories
- Mounting in any position
- Safe operation
- Easy installation

RFW



Fuse holder rotary disconnectors

- Rated currents: 100 to 630 A
- Developed according to international standards IEC 60947-3 and IEC 60947-1
- Housing in self-extinguishing thermoplastic (flammability class V0)
- Total fuse isolation with the switch in the OFF position
- Auxiliary contact installed on the switch
- Complete line of accessories
- Mounting in any position
- Safe operation
- Easy installation

Circuit protection

FSW



CE

Fuse-switch-disconnector

- Rated currents: 100 to 630 A
- Developed according to international standards IEC 60947-3 and IEC 60947-1
- Transparent cover allows viewing the contacts
- Possibility of checking the fuse state through holes in the cover
- Auxiliary contact installed on the switch
- Fast fuse replacement
- Safe operation
- Easy installation

FNH



aR ultra-fast fuses and gL/gG circuit protection

- Class gL/gG (500 V) - for general electrical circuit protection
- Class aR (690 or 800 V) - short-circuit protection
- NH-type gL/gG fuses with rated currents from 4 to 630 A
- NH-type aR fuses with rated currents from 20 to 1,000 A in four sizes
- aR fuse with thread connection type (flush end) and currents of 450 A to 2,000 A
- Technical specification according to IEC 60269 standard
- High breaking capacity

ABW/ABWC



Air circuit breakers

- Rated currents:
 - ABW: 800 to 6,300 A
 - ABWC: 800 to 1,600 A
- Available with two versions: fixed and withdrawable
- Designed in compliance with IEC 60947-2 standard
- Short-circuit breaking capacity
 - ABW: up to 120 kA (380/415 V)
 - ABWC: up to 50 kA (380/415 V)
- Standard protection units with:
 - LSIG protection
- Protection units with option of:
 - Current and voltage reading
 - Earth leakage protection
 - Network communication
- Wide range of accessories
- More built-in protections as default
- Network communication: Modbus and Profibus (optional)

Circuit protection

VBW



Vacuum circuit breakers

- Rated voltage of 17.5 kV and 24 kV
- Distance between poles: 150 mm for the 17.5 kV model and 230 mm for the 24 kV model
- Short-circuit breaking capacity up to 21 kA for the 24 kV model and 31.5 kA for the 17.5 kV model

ACW



Molded-case circuit breakers

- Designed in compliance with IEC 60947-2 standard
- Rated currents: 20 to 1,600 A
- Rated short-circuit breaking capacity up to 200 kA (220 V) and 150 kA (415 V)
- Wide range of internal and external accessories
- Release options:
 - Adjustable thermal and fixed magnetic
 - Adjustable thermal and magnetic
 - LSI electronic
 - Magnetic only
- Network communication: Modbus (optional)

AGW



Molded-case circuit breakers

- Designed in compliance with IEC 60947-2 standard
- Breaking capacity: 18 to 45 kA @ 380 V
- Available in 5 frames and currents from 15 to 800 A
- Complete line of accessories
- Fixed magnetic and thermal protections

DWB/DWA



Molded-case circuit breakers

- WEG line of circuit breakers:
 - DWB/DWA line - protection of electrical distribution circuits and generators
 - DWB/DWM Line - motor protection
 - IWB and IWA Line - electrical circuit disconnection
- Designed in compliance with IEC 60947-2 standard
- Rated currents: 16 to 1,600 A
- Rated short-circuit breaking capacity up to 80 kA (380/415 V)
- Models with adjustable thermal and magnetic releases
- Broad range of internal and external accessories DWB1000 and DWA1600 with LSIG electronic protection, Modbus-RTU and NFC

Circuit protection

VBWK



MV input modules for masonry installations

- Installation in masonry cabinets
- Vacuum arc extinguishing technology
- Robust and compact frame
- Protection relay approved by the utility companies
- Maintenance-free equipment in the primary part
- Visual indication of the VBWK operating conditions
- Input and output connections prepared to receive cables or rods
- Easy installation
- Supplied assembled with all the equipment interconnected, tested and ready for energizing

DWP

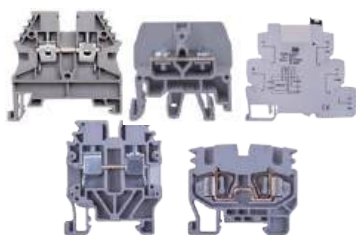


Molded-case circuit breakers

- The DWP molded-case circuit breakers protect the low voltage distribution circuits against short circuit and overload
- Available in currents from 16 to 800 A with fixed thermal and magnetic releases
- Designed in compliance with IEC 60947-2 standard
- Optional padlock and version with shunt trip

Electrical connections

BTW



Terminals

- Screw line: cables from 0.5 to 240 mm²
- Cage Clamp line: cables from 0.5 to 10 mm²
- Push-in line: cables from 0.5 to 10 mm²
- Lug line: cables from 0.5 to 10 mm²
- Wide range of accessories
- Relay line:
 - Single 6 A or double 8 A reversible contact
 - Plug-in relay
- Mini Terminal Screw line: cables from 0.5 to 4 mm²
- Mini Terminal Cage Clamp line: cables from 0.5 to 2.5 mm²
- Many options of identifiers and markers

Power factor correction

Power factor correction capacitors

- Coils produced with self-healing, dry dielectric, metalized polypropylene film
- Built-in discharge resistors in three-phase units, modules and banks
- Dielectric losses smaller than 0.4 W/kVAr
- Manufactured in 50 and 60 Hz, in accordance with NBR IEC 60831
- Self-healing
- Explosion protection device

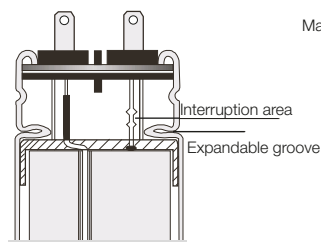


Fig. 1 Internal view of UCWs

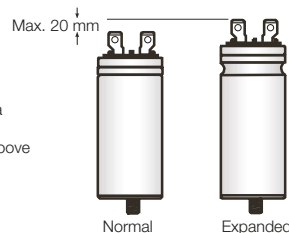


Fig. 2 Normal UCW vs. expanded UCW

UCW



Single-phase capacitive units

- Power ratings up to 10 kVAr in diameters from 40 to 75 mm and 535 V_{AC}
- Capacitive unit for mounting three-phase banks and modules
- Replacement of expanded cells in the modules and banks
- Separate discharge resistors

UCWT



Three-phase capacitive units

- Ideal for localized/individual motor correction:
 - 0.5 to 50 kVAr at 220 V
 - 0.5 to 50 kVAr at 380/440/480/535 V
 - 50 to 50 kVAr at 600/660/690 V
- Built-in discharge resistors
- Protection cover for connections
- Fast-on and Phillips terminals
- Heavy Duty or Ultra Heavy Duty versions

MCW



Three-phase capacitor modules

- Power ratings: up to 60 kVAr and 480 V_{AC}
- Single-phase capacitive units connected in delta
- Built-in discharge resistors
- You can associate up to 4 modules through interconnection busbars, reaching equivalent powers to the banks (better value for money)

BCW and BCWP



Three-phase capacitor banks

- Power ratings: up to 100 kVAr and 535 V_{AC}
- Capacitors connected in delta
- General protection with "NH" fuses or circuit breakers
- Electronic timing relay that protects the capacitors at the reenergizing

BCWA



Automatic capacitor bank

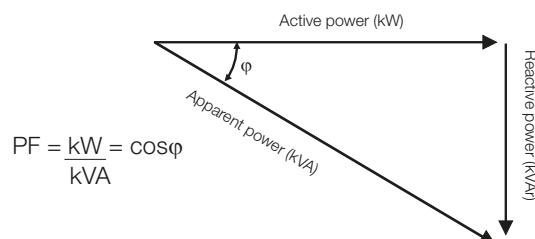
- Power ratings: 20 to 120 kVAr
- Voltages: 220 V to 480 V 60 Hz
- General and 7-stage protection circuit breaker, with automatic PF controller
- Optimized, facilities with grid-connected photovoltaic system
- Distribution of the stage powers for greater accuracy in correction
- Optimized for installations with grid-connected photovoltaic system or conventional installations in need of PF correction

Power factor correction



In a three-phase power line, three quantities represent the electrical installation:

- Active power: kW (generates work)
- Reactive power: kVAr (creates magnetic field)
- Apparent power: kVA (total power consumed)



(The more kVAr circulates through the line and the transformer/generator, the higher the kVA consumed and the lower the power factor.)

CWBC



Contactors for switching capacitors

- Available for switching capacitor banks of up to 100 kVAr at 400/415 V
- 3 built-in auxiliary contacts
- Same accessories as those of the CWB line
- Direct mounting on DIN rail 35 mm or screw mounting

PFW



Automatic power factor controllers

- Switching of capacitors and reactors with 8 to 24 control steps available
- Ability to “learn” and record the reactive powers of the steps, eliminating the need for parameter setting of each one
- Dynamic step monitoring - DCM that speeds up maintenance and increases reliability in power factor correction
- Communication with RS485 isolated serial output, Modbus-RTU protocol
- Harmonics phasor diagram, table and bar graph up to the 51st order for current and voltage
- Direct and reverse energy measurement
- Configurable digital inputs and outputs



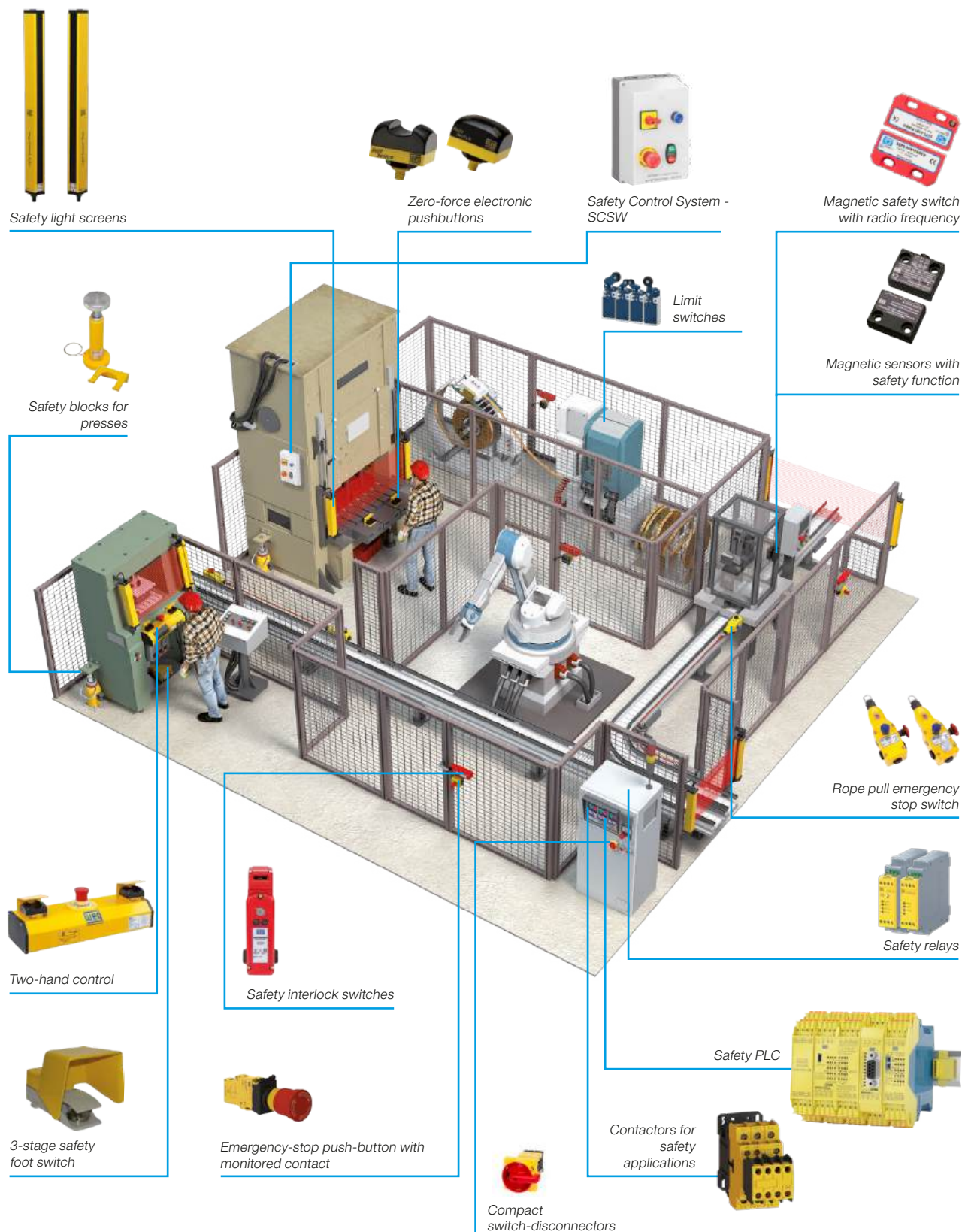
DRW



Detuning reactors

- Voltage: 220, 380, 440 and 480 (V)
- Power: 9.0...63.3 (kVAr)
- Reduced vibration
- Reduced noise
- Insulation class: H (180 °C)
- Insulation voltage: 1 kV
- Use of spacers between the winding layers: it helps with thermal dissipation, reducing the operating temperature
- Special silicon steel plate: excellent magnetic properties in all directions, reduced losses and low operating temperature
- Application as a filter for harmonic distortions in the capacitor bank

Machine safety



Machine safety

LSP



Safety light screens

- Height of the protection area 200 to 1,600 mm
- 14 or 30 mm resolution
- Finger, hand and arm protection
- 24 Vdc power supply
- Compact size
- Double channel output
- Floating and fixed blanking
- Autocheck: continuous monitoring of the functions
- Protection category 4/PL e/SIL 3
- Certification: TÜV Rheinland®
- IP65 protection rating

SS, PALM and ST



Zero-force electronic pushbuttons

- Zero force to operate
- Reduce the stress caused by repetitive strain and consequently the occurrence of occupational diseases
- Resistant to liquids, dust, oils and mechanical vibrations
- IP67 protection rating
- Category 4/PL e/SIL 3 – with WEG safety relay
- Certification: TÜV Rheinland® (Brazil)

CEC



Rope pull emergency stop switches

- Cable length up to 80 meters
- Start the emergency command from any point along the length of the installed cable
- Built-in emergency-stop pushbutton, reset and LEDs
- Rugged cast metal housing
- Category 4/PL e/SIL 3 – with WEG safety relay
- IP67 protection rating
- Certification: TÜV Rheinland®, CE, UL

SCSW



Security control systems

- Power ratings: 0.5 to 15 cv
- Supply voltages: 220 VAC and 380 VAC
- Complies with safety category 4/PL e / SIL3
- Control with voltage at 24 Vdc
- IP52 or IP65 protection rating and compact size
- Options with switch-disconnectors and manual motor protector

H5 and M5



Magnetic sensors with safety function

- Used to monitor grilles, doors, gates or the like
- 10-30 Vdc supply voltage (model H5)
- Power supply directly on the safety relay (model M5)
- Coded actuator
- IP67 protection rating
- Category 4/PL e/SIL 3 – with WEG safety relay

Machine safety

RFID



Magnetic sensors with safety function

- Provides high protection level and avoids tampering with the safety system
- Coded switch with a unique code (1 in 32 million combinations): works only with the actuator provided in the set
- Can be used with CP-D and CPA-D safety relays, not requiring special relays
- Can be interconnected in series with other similar sensors, interlock switches, emergency-stop pushbuttons and other devices of the Safety Line
- Rugged plastic housing with IP67 protection rating, allowing its use in any type of environment
- No moving parts: long service life, shock and vibration resistant



Safety interlock switches

- Selectable actuators (tongues)
- Models with and without solenoid
- Used to monitor grilles, doors, gates or the like
- Ideal for applications in restricted spaces and aggressive environments
- IP67 protection rating
- Category 4/PL e/SIL 3 - with WEG safety relay
- Certification: TÜV Rheinland®, CE, UL



Safety relays

- PSRW line - Programmable Safety Relay
- CS line - Simultaneity control
- CPW line - Emergency stop control
- SZS - Zero speed monitor
- Dual channel outputs
- Contact supervision
- Protected against faults and tampering
- Category 4/PL e SIL CL 3
- TÜV Rheinland® certification

CWBS



Contactors for security systems

- Three-pole power versions CWBS (9...125 A)
- Auxiliary versions CAWBS (I_{th} : 10 A)
- Enclosed design protected against the ingress of foreign bodies and against inadvertent touches
- Auxiliary contacts permanently connected to the contactors
- Specific color that enables easy identification on machinery and equipment panels
- Developed in compliance with the standards: IEC 60947-1, IEC 60947-4-1 (Mirror Contacts - Annex F) and IEC 60947-5-1 (Mechanically Linked Contacts - Annex L)
- Main certifications: UL and CE
- Units assembled and tested at the factory

Machine safety

CPSW



CE

Programmable safety controllers

- Compact modular system
- Configurable up to 15 modules
- Modules with different functions: safety inputs and outputs, speed monitoring and network communication
- 24 Vdc power supply
- Push-in terminals
- Safety category SIL 3 / PL e / Cat 4

CBM



Two-hand controls

- 24 Vdc power supply
- IP20 protection rating
- Used with the other products of the Safety Line
- Category 4/PL e, SIL 3 (with CS-D/CS-D201 safety relay)
- TÜV Rheinland certification® (CS-D/CS-D201 built-in)

PD3S



3-stage safety foot switch

- 3 actuation stages
- Monitored contact block with positive trip
- Guard to avoid inadvertent actuation
- Must be used with the CS-D/CSD201 relay and CP-D/CPA-D emergency stop relay

CA

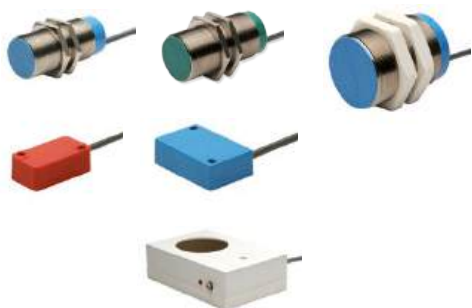


Safety blocks for presses

- Adjustable height from 150 to 900 mm
- Withstands up to 20 t
- Monitored by safety interlock switch
- Used with the other products of the Safety Line
- Compliance certificate

Industrial sensors and power supplies

SL



Inductive sensors

- Wide variety of models and shapes
- Detection of metal parts
- Protection against overload, short circuit, transient noise and reverse polarity
- Metal or plastic housing
- Activation indicator LED
- Reduced size
- Shock and vibration resistant
- IP67 protection rating
- Output with cable (fixed or coupling) or M12 connector (selectable)

SC



Capacitive sensors

- Cylindrical shape
- Detection of metallic or non-metallic solid objects, and fill level control of liquids and solids
- Metal or plastic housing
- Protection against overload, short circuit, transient and reverse polarity
- Activation indicator LED
- Shock and vibration resistant
- IP67 protection rating
- Output with cable (fixed or coupling) or M12 connector (selectable)

MSO



Miniature optical sensors

- Models
 - Barrier (ERO)
 - Reflective (SRO)
 - Diffuse (SDO)
 - Retroreflective (SRR)
 - Retro-polar (SRP)
- Rectangular shape
- Plastic housing
- Protection against overload, short circuit, transient and reverse polarity
- Activation indicator LED
- Shock and vibration resistant
- IP67 protection rating
- Output with cable (fixed or coupling) or M8 connector (selectable)

SMI



Magnetic sensors

- Mounting on pneumatic cylinders with magnetic plunger
- Precise activation
- Activation indicator LED
- Robust plastic assembly
- IP67 protection rating
- 2 m cable

Industrial sensors and power supplies

PSS24W



Switched-mode power supplies

- Output voltage: 24 V_{DC}
- Output current range: 0.65 to 10.0 A
- Power ratings: 15 to 240 W
- Universal AC input
- DIN rail mounting
- Indication LEDs
- Compact and excellent cost effectiveness
- CE and UL certification
- Overvoltage and overcurrent protection

PS



Power supplies for industrial sensors

- Power supplies for sensors - PSS and PSD
- Level Control Power Supply - PSN
- PNP or NPN input signals
- Output voltage 24 V_{DC}
- 1 NOC and 2 NOC contacts

RM



Monitoring relays for automation

They are devices that can send a control panel information regarding the stop, speed and displacement of sensors

- Checkout monitor relay - RMCW
- Universal timing relay - RTUW
- Zero speed monitoring relay - RMMZW
- Speed monitoring relay - RMVW
- Displacement monitoring relay - RMDW

Limit switches

LSW



Limit switches

- Interchangeable contacts and a wide range of heads and fast and slow action contacts
- Shorter assembly time, as the switches are assembled at the factory
- High durability even in harsh environments
- Body in self-extinguishing thermoplastic material
- Complies with international standards IEC/EN 60947-5-1 and UL 508
- Positive opening on the NC (normally closed) contacts
- Can be used for indication, detection, limitation, monitoring and rigid object counting
- Thermoplastic housings
- Double insulation
- IP65 protection rating

Building & Infrastructure

MDW and MDWP



Miniature circuit breakers 3 and 6 kA

- Curves B and C
- Rated currents: 2 to 63 A
- 1, 2, 3 and 4 poles
- Short-circuit breaking capacity:
 - 3 kA - NBR NM 60898 (residential purpose)
 - 5 kA - IEC/EN 60947 (industrial purpose)
- Padlock (optional)
- Auxiliary contact block (optional MDW)
- Auxiliary contact block with *Alarm* function (optional MDWS)
- Auxiliary contact block (optional MDW)
- Shunt trip (optional MDW)
- Undervoltage release (optional MDW)

MDWS



Miniature circuit breakers 6 kA

- Currents: 2 to 63 A
- Curves B, C and D
- 1 pole (1P), 2 poles (2P), 3 poles (3P), 4 poles (4P),
1 pole with neutral (1P + N) and 3 poles with neutral (3P + N)

MDWH



Miniature circuit breakers 10 kA

- Curves B and C
- Rated currents: 6 to 125 A
- 1, 2, 3 and 4 poles
- Breaking capacity
 - 10 kA - NBR NM 60898 (residential purpose)
 - 10 kA - IEC 60947-2 (industrial purpose)
- Installation of accessories, such as padlock, undervoltage release and auxiliary blocks, supplied as optional items

SIW



Switch-disconnectors

- They disconnect electrical circuits with rated currents up to 100 A
- 2, 3 and 4 poles
- Compliance with IEC 60947-3
- Possibility of padlock locking (optional)
- Auxiliary contact block (optional)

RDWS and RDWH



Residual current devices

- Protection against leakage current
- RDWS model AC
- RDWH model A
- Sensitivity: 30 mA (life protection) or 300 mA (installation protection)
- 2 and 4 poles
- Rated currents: 25 to 100 A
- Padlock (optional)
- Auxiliary contact block (optional)
- Auxiliary contact block with *Alarm* function (optional)
- Shunt trip (optional)
- Undervoltage release (optional)

Building & Infrastructure

SPW



Surge suppressors

- SPW02 and SPWC general characteristics
 - Protection of equipment and installations
 - Classes I (direct discharges) and II (indirect discharges)
 - Plug-in connection
- SPW02 Model – Alternating current (AC) application
 - 10, 20, 40 and 60 kA (class II)
- SPWC Model – Alternating current (AC) application
 - 12, 20, 45 and 60 kA (class II)
 - 12.5 kA (class I)
 - Auxiliary contact (optional)
- SPW12 Model – Direct current (DC) photovoltaic application
 - 40 kA (class II)
 - DC voltages (600 V and 1,000 V)

QDW



Distribution boards

- Installation of 4, 8, 12, 18, 24 and 36 circuit breaker modules
- Wall and flush models
- Smoked and white cover finish
- Connection and distribution busbars (optional)
- Neutral and ground busbars (optional)
- Complete line of accessories

VDI



Distribution boards

- Allow organizing your phone, internet and TV devices in a simple and practical way
- Available sizes: 20x20 cm and 30x30 cm

TTW01-QD



Distribution boards tested according to NBR IEC 61439

- According to the requirements of standard NBR IEC 61439-1/2/3
- Simplified installation and operations
- Robust, compact structure with excellent paint finish
- Metal boards in a single set, allowing faster assembly and greater robustness in handling and maintenance
- Wide range of mounting kits, offering a great variety of arrangements
- Wall and flush versions with optional base plate
- Modular component capacity of up to 315 poles of DIN miniature circuit breakers
- Compatible with molded-case circuit breakers with current ratings up to 630 A

Building & Infrastructure

TTW01



Board and type tested assembly system NBR IEC 61439

- According to the requirements of standard NBR IEC 61439-1/2/3
- Operating safety
- Performance reliability
- Fast manufacture and short lead time
- Panel assembled by integrators with WEG quality guarantee
- Modularity – expansion without requiring electrical/mechanical intervention on the existing panel
- Rated current: main busbar up to 5,000 A
- Short-circuit current: 65 kA/1s; 80 kA/0.3s
- Mounting: 1, 2 and 3b
- Configurations of distribution boards or motor starters with drives
- Compatible with feeders via the BWW04 shielded busbar
- Busbars and insulators standardized by the original manufacturer (WEG), ensuring greater precision and reliability in the assemblies carried out by integrators
- Wide network of qualified integrators to serve the various industry segments and LV distribution in general

BWW



Shielded busbars

- Reduction of the installation space in relation to the conventional cable method
- Executive design of the lines prepared by WEG, and manufacture of customized parts according to the application requirement
- Full WEG support to designers and end customers for specification and application in projects
- Installation time up to 80% shorter than required for conventional cabled systems
- Flexibility to position the load supply points with withdrawable box for up to 630 A
- Product certified according to international standard IEC 60.439-2 / IEC 61.439-6 and homologated for use in buildings by the main power utility companies
- With aluminum bars, it offers economic feasibility up to 40% higher in comparison to conventional installations with copper cables
- Wide range of configurations:
 - Copper or aluminum conductors
 - IP31, IP54 or IP55 protection rating
 - Separate bars or bonded bars topology
 - 250 A to 5,000 A rated current
 - Short-circuit capacity up 120 kA

PIW



Industrial plugs and sockets

- Interchangeable with other products developed according to IEC 60309
- Resistant to impacts and corrosion
- Protection against indirect contact
- Housing in self-extinguishing thermoplastic PA6 (flammability class V0)
- Frequency: 50/60 Hz
- Rated operating voltage
 - 100/130 V_{AC} - yellow
 - 220/240 V_{AC} - blue
 - 380/440 V_{AC} - red
- Insulation voltage: 600 V_{AC}
- Rated currents: 16 A, 32 A, 63 A and 125 A
- Number of poles: 3 (2P+G), 4 (3P+G) and 5 (3P+G+N)

Refinatto.
O SEU TOQUE FINAL



ESATTA

Você e seu lar em harmonia.



Seu lar. Sua cor. Seu estilo.
Composé

**DESIGN
PREMIADO**

if
DESIGN
AWARD
2016

BDA
PREMIADO 2016



equille

Shape and function completely balanced.



Standard and klin traditional lines



Modular surface-mount lines and for furniture and stones



Modular surface-mount lines and for furniture and stones



WEG Home and WCAM line



UPSs

Line interactive - single-phase



UPS Home

- Interactive topology
- Semi-sinusoidal output
- Power ratings: 600, 800 and 1,200 VA
- Single-phase
- Output: 115 V
- Power factor: 0.5
- Sealed batteries
- Audiovisual alarm
- Integrated stabilizer
- Protection against power outage, overcurrent and undercurrent

Line interactive - single-phase



UPS Personal

- Interactive topology
- Semi-sinusoidal output
- Power rating: 1,200 VA
- Single-phase
- 220 V output
- Back up time: 40 minutes
- Power factor: 0.45
- 6 outlets on top
- Integrated stabilizer
- Protection against power outage, overcurrent and undercurrent

Line interactive - single-phase



UPS Studio

- Online Topology - Interactive
- Power ratings: 1 kVA and 2 kVA
- Input voltage: 110 V or 220 V
- Single-phase
- Output voltage: 110 V or 220 V
- Sealed batteries
- Audiovisual alarm
- Short circuit, overload and undervoltage protection

Line interactive - single-phase



UPS Office sinusoidal

- Interactive topology
- Power ratings: 1,500, 2,400 and 3,300 VA
- Automatic dual voltage input
- Single-phase
- Selectable dual voltage output
- Power factor: 0.6 and 0.8
- Protected batteries
- Electronic circuit breaker
- Integrated stabilizer
- Protection against power outage, overcurrent and undercurrent

UPSs

Online, double conversion - single-phase



UPS Company RT

- Online topology double conversion
- Power ratings: 3 kVA, 6 kVA and 10 kVA
- Input voltage: 220 V
- Single-phase
- Output voltage: 220 V
- Sealed batteries
- Audiovisual alarm
- Rack and Tower version
- Short circuit, overload and undervoltage protection

Online, double conversion - single-phase



UPS Corporate

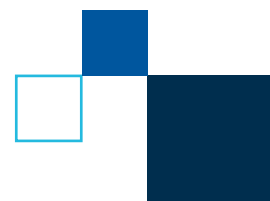
- Double conversion topology
- Power ratings: 3 kVA and 5 kVA
- Input voltage: 120 V or 220 V
- Single-phase
- Output voltage: 120 V or 220 V
- Power factor: 1
- USB communication
- Sealed batteries
- Integrated stabilizer
- Protection against power outages, undervoltages and overvoltages, frequency variations, noise, surges and harmonic distortion

Online, double conversion - single-phase and three-phase



UPS Enterprise

- Double conversion topology
- Power ratings: 10 kVA - 200 kVA
- Three-phase
- Input voltage: 220 V or 380 V
- Output voltage: 220 V or 380 V
- Power factor: 0.8
- Industrial standard HMI above 50 kVA
- Modbus-RTU and Modbus-TCP/IP
- Protection against power outages, undervoltages and overvoltages, frequency variations, noise, surges and harmonic distortion



UPSs

Online - single-phase



UPS Thor World

- Online sinusoidal
- Power ratings: 2 kVA - 15 kVA
- Automatic dual voltage input up to 6 kVA
- Single-phase
- Selectable dual voltage output up to 6 kVA
- Digital online bypass
- Electronic hot-swappable system
- Ultra isolation transformer
- Protection against power outages, undervoltages and overvoltages, frequency variations, noise, surges and harmonic distortion

Rectifiers

Digital three-phase rectifier



RTDW

- Power ratings: 15 A - 500 A
- Input: 220 V - 690 V
- Output: 24 V_{DC}, 48 V_{DC}, 125 V_{DC} e 250 V_{DC}
- Safety, energy efficiency, easy operation and remote management
- Micro controlled digital control.
- LCD display for operation and electrical measurements
- LEDs for remote indication
- Event log

Batteries

Batteries



VRLA sealed batteries

- Power ratings: 1.3 Ah - 150 Ah
- Voltage: 12 V
- Valve-regulated
- No gas release
- Can be mounted in the horizontal
- Maintenance-free operation
- Electrolyte absorption system prevents leakage

Medical IT

Isolation and transformation system



Medical IT system

- The use of the WEG Medical IT System increases the safety for the patient and for the clinical staff, because it prevents the interruption of the power supply in case of a first ground fault
- Even in the case of a phase-to-ground short circuit, for example, electromedical equipment can be used to assist or replace, temporarily or permanently, a patient's vital functions. In addition, there is a reduction in leakage currents flowing through the protective conductor, which reduces the contact voltage and consequently the intensity of an accidental electric shock.
- Composition:
 - Insulation monitoring device
 - Concentrator / HMI
 - Fault annunciator
 - Isolator transformers
 - TTW distribution board / with NOBAC paint

Photovoltaic equipment

Photovoltaic generator



Parts of the generator

- Photovoltaic generators kits for homes, businesses and industry
- String inverters from 2 to 330 kW
- 1,000 W microinverters
- Central inverters from 1 to 10 MW
- Photovoltaic modules of different power ratings
- Mounting structures
- Protection devices such as circuit breakers, surge suppressors, RCDs and fuses
- Various electrical materials
- Substations (transformers and distribution boards)
- Skid E-houses
- Turn-key solutions for large projects and investors

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Global presence

is essential, as much
as understanding
your needs.

Global Presence

With more than 47,000 employees worldwide, WEG is one of the largest electric motors, electronic equipments and systems manufacturers. We are constantly expanding our portfolio of products and services with expertise and market knowledge. We create integrated and customized solutions ranging from innovative products to complete after-sales service.

WEG's know-how guarantees **WEG Automation's product lines** are the right choice for your application and business, assuring safety, efficiency and reliability.



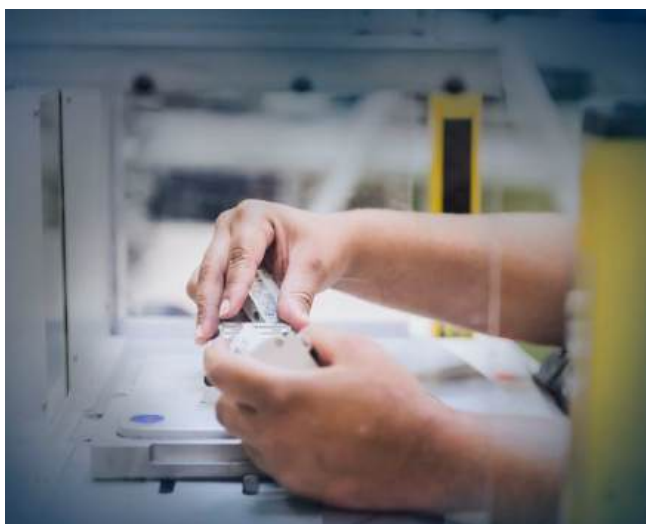
Availability is to have a global support network



Partnership is to create solutions that suits your needs



Competitive edge is to unite technology and innovation



Learn More

High performance and reliable products to improve your production process.



Excellence is to provide a whole solution in industrial automation that improves our customers productivity.

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