SRW01

CONNECTIVITY AND MANAGEMENT OF ELECTRIC MOTORS

Transforming energy into solutions. www.weg.net

Protection, Control and Diagnosis of Low-Voltage Electric Motors up to 840 A (AC-3).

Protection and Control

- Overload (adjustable trip class from 5 to 45)
- Thermal via PTC
- Phase loss (current)
- Current unbalance between phases
- Overcurrent and locked rotor
- Undercurrent
- Internal ground fault
- Frequency out of range
- Earth leakage
- External fault
- Phase sequence
- Voltage unbalance
- Phase loss (voltage)
- Overvoltage and undervoltage
- Underpower and overpower
- Under and over power factor
- Management of electric energy consumption kWh and kvarh
- Activation of the digital inputs and outputs

Diagnosis and Data Acquisition

- RMS current of each phase and average in amperes (A) or % of the adjusted current I_n
- Line voltage and average in Volts (V)
- Motor frequency
- Total number of trips
- Number of trips by fault type
- Number of starts
- Motor operation hours
- Relay operation hours
- Current unbalance level of the phases
- Voltage unbalance level
- Internal ground fault current
- Earth leakage current
- Power factor
- Active power / reactive / apparent power
- PTC value
- Ground fault level

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The **SRW01** smart relay simplifies the industrial automation, combining **protection and IIoT functions** in a single product.

MODEM

HMI
Touch screen

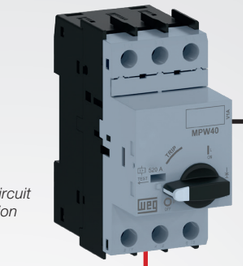
PLC

Web server

EtherNet/IP

PROFINET

Modbus-TCP



MPW
Short circuit protection

CWB
Switching device

SRW01
Overload protection and motor management

I/O
6 INPUTS / 4 OUTPUTS

ON *OFF* *Emergency*

Built-in PLC function

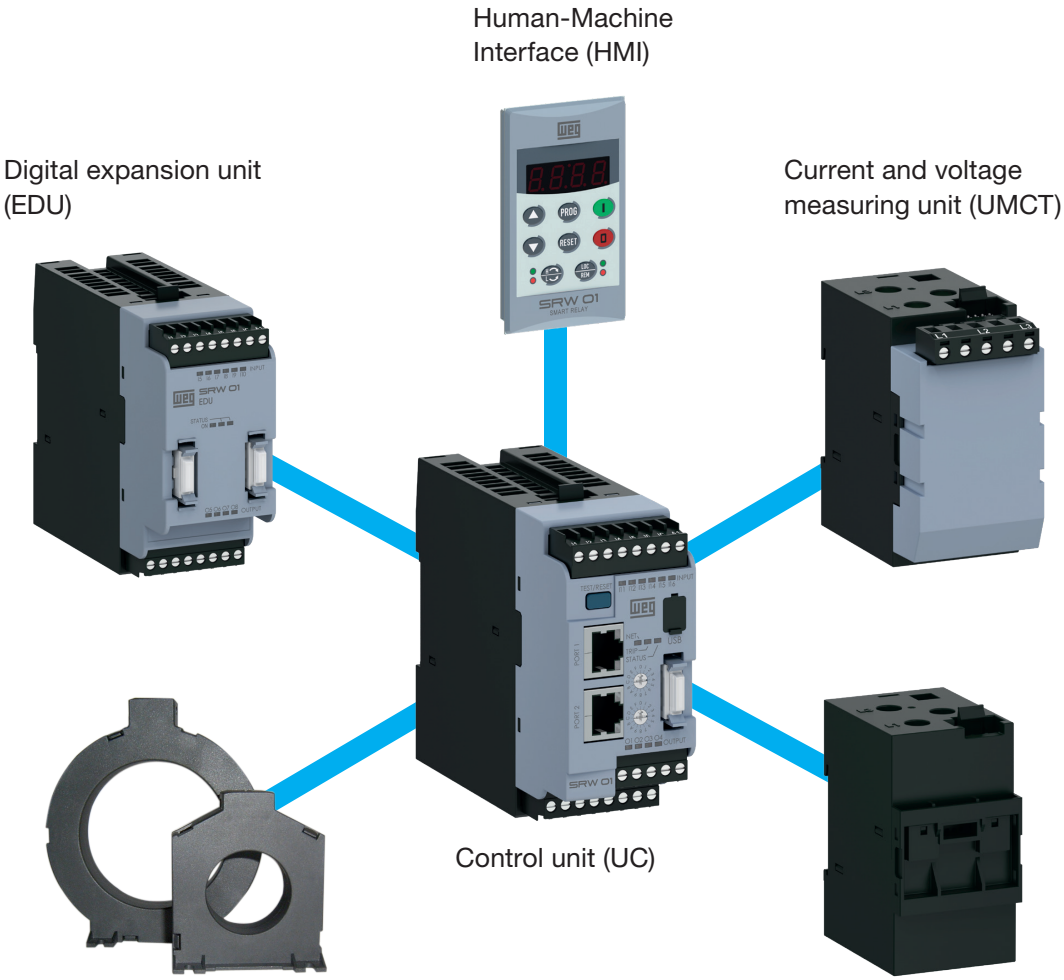
HMI

Its immediate diagnosis capacity helps in the preventive maintenance, avoiding undesirable events of machine breakdown, also meeting the **IIoT** requirements, which is one of the cornerstones of the **Industry 4.0**.

Advantages

- USB Port
- Easy operation interface
- Free programming software applications
- Reliable operation and control modes
- Unique in the market with 6 digital inputs and 4 outputs

Modular Design



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