

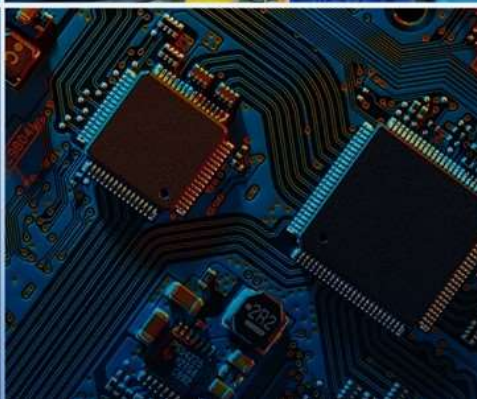
CFW900 Overview



Driving efficiency and sustainability



Class: CFW901
Version: 12.2024



Automation Training

Agenda



- Product Features
- Installation



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Product Features



- Mini-USB connection
- Built In Modbus communication.
- Built in 2-port Ethernet connection
- Micro-SD card slot
- Built-in DC link reactors
- STO and SS1 functions
- Intelligent Thermal Management
- PC software WPS
- Built-in PLC functions (SoftPLC)



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Product Features



USB Type-B mini connection

Galvanically isolated from high voltages inside the inverter (not isolated from the protective earth).

Connect the laptop in the same protective earth of the inverter to avoid damages to the USB port.



MICRO-USB



MINI-USB



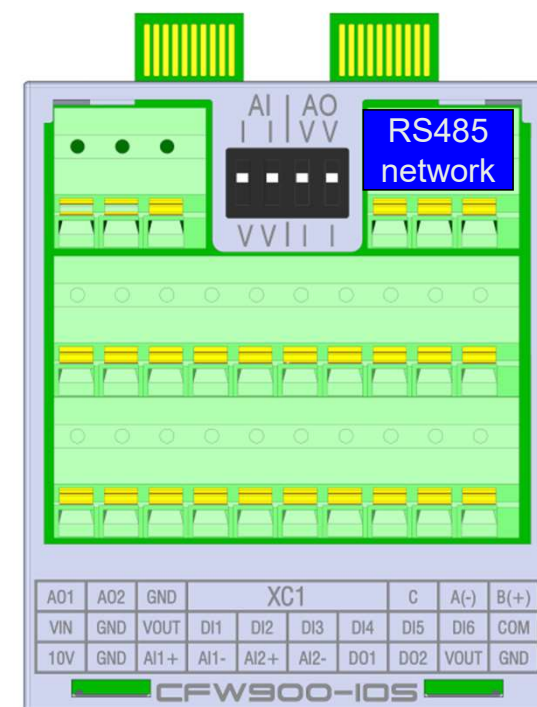
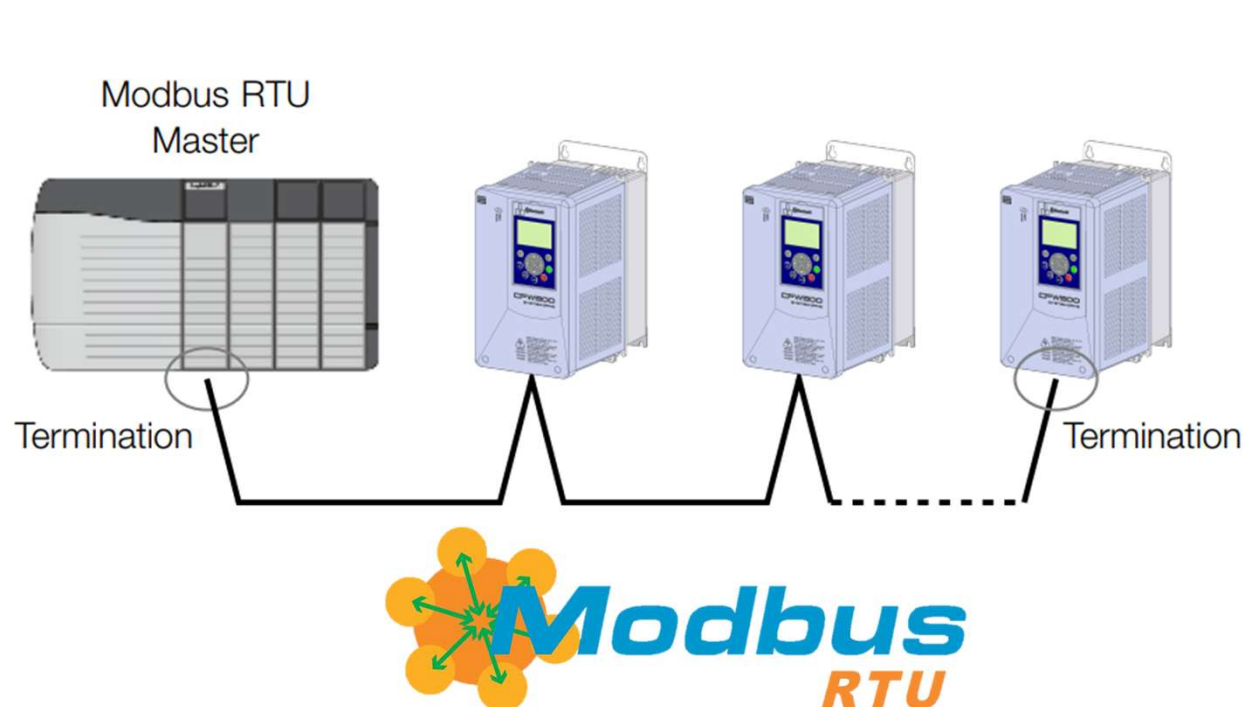
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Product Features



Modbus Support

- Built in Modbus RTU Support



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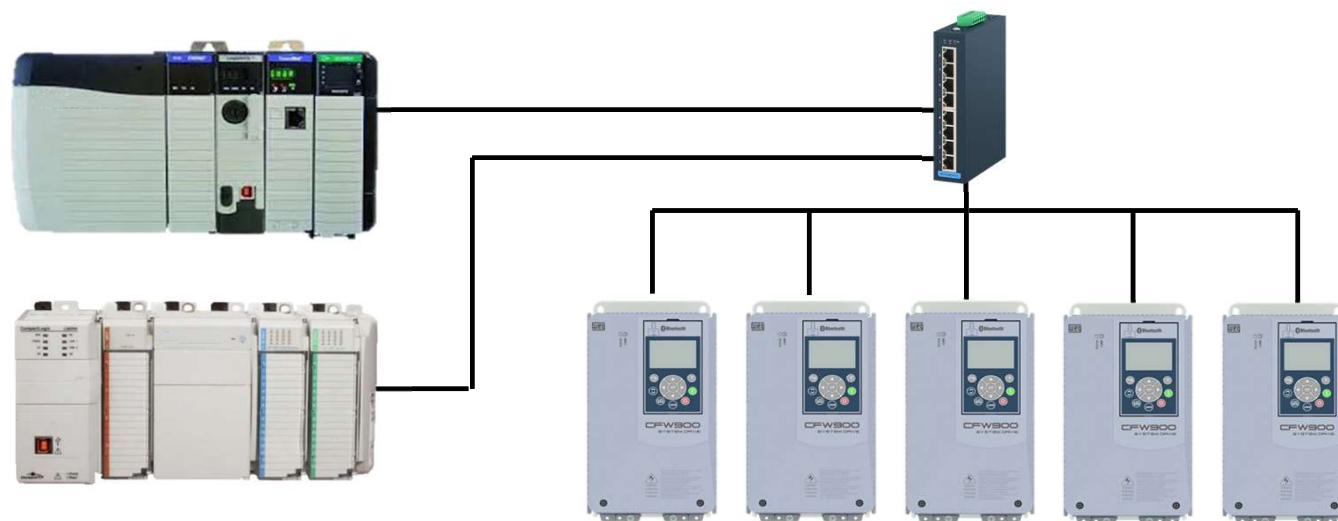
Product Features



2-Ethernet Ports

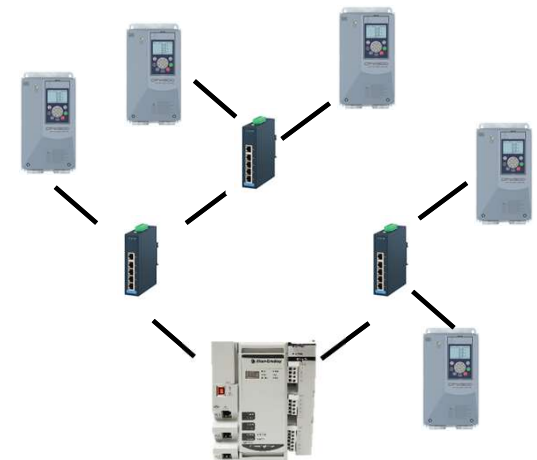
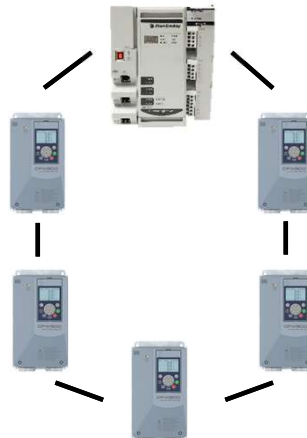
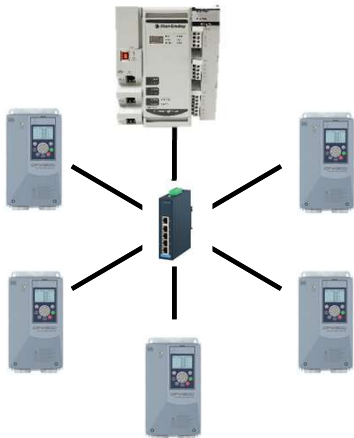
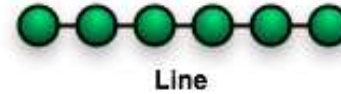
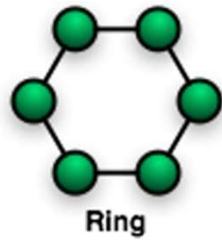
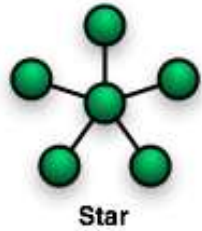
- Built In Ethernet IP Support
- Built In Modbus TCP Support

EtherNet/IP™



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Ethernet/IP Protocol



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Product Features

Micro-SD card slot

- Settings backup;
- Copy/Paste settings between different inverters.

Requirements:

- Type: Industrial-grade operation temp.: $-40 \dots 185$ °F
- Maximum size: 32 Gb (not included)
- File system format: FAT32

Kingston SDCIT2



SanDisk XI

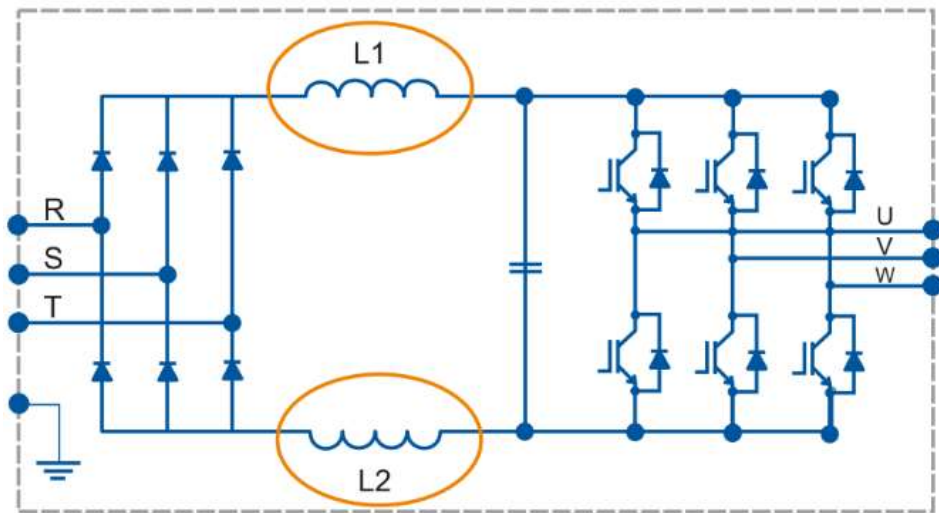


Product Features

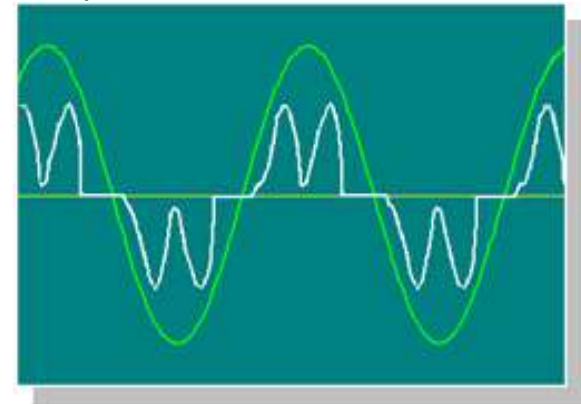
Built-in DC link reactors

The built-in reactors located in the DC bus allow to install the inverter on any supply without minimum impedance restriction.

They comply with IEC61000 parts 3-2 and 3-12 regarding the low order line current harmonics.



Input current with DC link reactors



Product Features

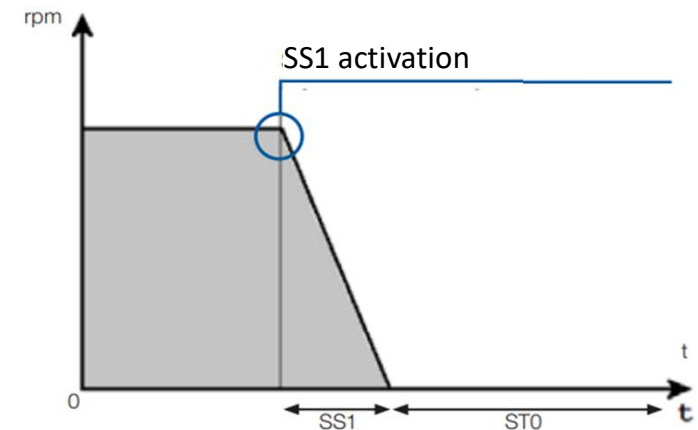
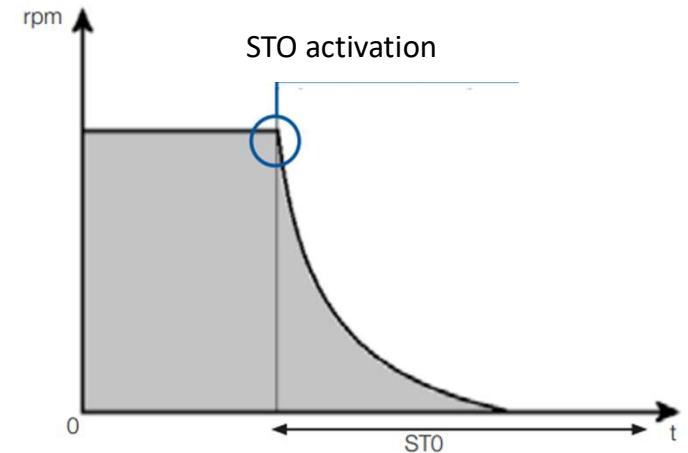


Safe torque-off (STO)

The “Safe Torque-off” function is a basic safety function integrated in CFW900. This function prevents the inverter from generating torque on the motor as well as the unintentional on unexpected starting if the STO function is enabled.

Safe Stop (SS1)

The “Safe Stop” function first enables the ramp motor deceleration and, after the programmed time, automatically activates the STO function.



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Product Features



Smart Thermal Management

- Automatic adjustment of the switching frequency. Keeps the motor running in adverse conditions of higher temperature.
- Reduces the need for VSD oversizing for applications with occasional operation at high temperatures.
- Protection of the VSD components, increasing the service life.
- Heatsink fan turns on and off automatically, ensuring efficient airflow through the cabinet and lower power consumption.



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Product Features



WPS (WEG Programming Suite)

- Parameters, alarms/faults and events backup
- Inverter programming and monitoring
- Oriented start-up
- Trend function



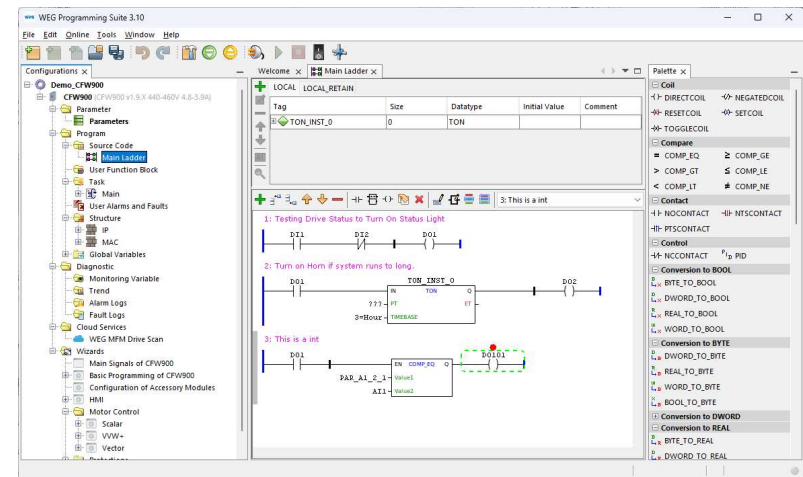
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Product Features



Built-in PLC functions (SoftPLC)

- Reduce hardware costs.
- Programming in “Ladder Language” using the WPS.
- PLC, Mathematical and Control Blocks
- On-line transfer and monitoring of the software application.
- Transfer of the application password restriction.

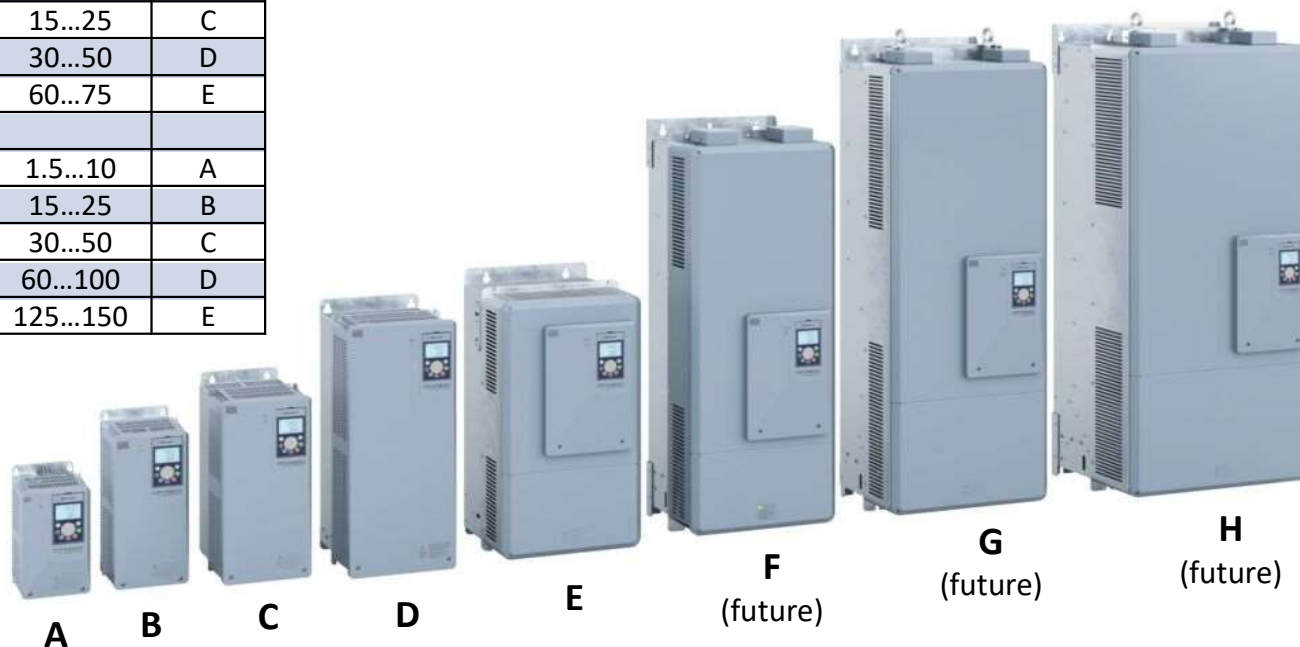


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Available Models



Input Voltage	Normal Duty (ND)		Heavy Duty (HD)		Frame Size
	Current (A)	Motor (HP)	Current (A)	Motor (HP)	
200...240 V ~2	4.6...10	1.5...3	4.6...10	1.5...3	A
200...240 V ~3	4.6...19	1.5...7.5	4.6...16	1.5...5	A
200...240 V ~3	26...45	10...15	22...35	7.5...10	B
200...240 V ~3	56...80	20...30	47...70	15...25	C
200...240 V ~3	110...150	40...60	92...124	30...50	D
200...240 V ~3	172...250	75...100	150...211	60...75	E
380...480 V ~3	2.8...17	2...10	2.4...17	1.5...10	A
380...480 V ~3	26...39	15...30	21...33	15...25	B
380...480 V ~3	50...74	40...60	40...62	30...50	C
380...480 V ~3	96...146	75...125	75...124	60...100	D
380...480 V ~3	172...242	150...200	146...190	125...150	E



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Available Models



- Centrifuges
- Compressors
- Conveyors
- Crushers
- Extruders
- Fans / Blowers
- Mills
- Mixers
- Presses
- Pumps
- And Many More



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Technical Specifications



Control modes

- **Scalar (V/f):** The simplest control mode. Speed regulation in open loop or with slip compensation. It allows multi-motor operation.
- **Vector Sensorless:** Control oriented by the rotor flux. Without speed sensor on the motor; able to drive standard motor. High control dynamics.
- **Vector with Encoder:** Control oriented by the rotor flux. Speed and torque control up to 0 rpm. High static and dynamic performance.
- **VVW+ (Voltage Vector WEG Pluss):** More accurate than the V/f. It automatically adjusts to the line variations and load variations. It does not present fast dynamic response.

Technical Specifications



Slot-X module

Digital inputs (isolated)

- Activated by 24V or GND
- DI5 and DI6: encoder input function

Digital outputs (**not isolated**)

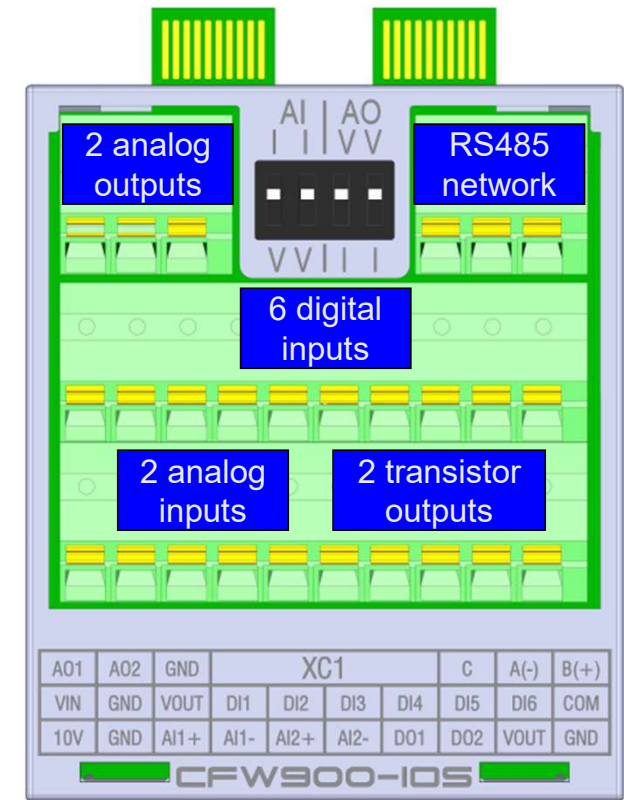
- Maximum voltage: 24 V_{DC}
- Maximum load: 40mA

Analog inputs (**not isolated**):

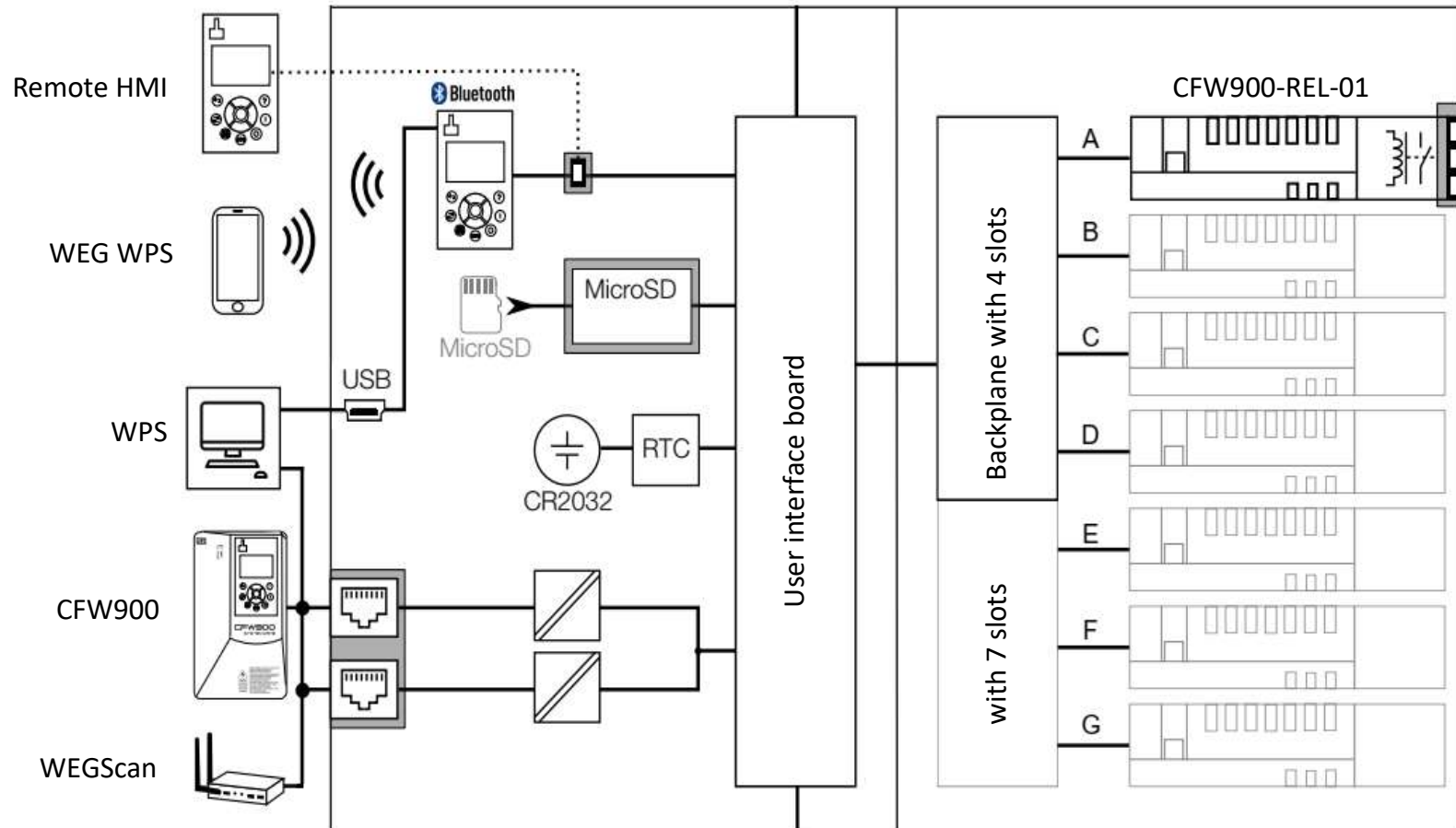
- Differential inputs, 11bits + sign
- -10...10V or 0...20mA

Analog outputs (**not isolated**):

- 0...10V or 0...20mA, 12 bits



Accessories

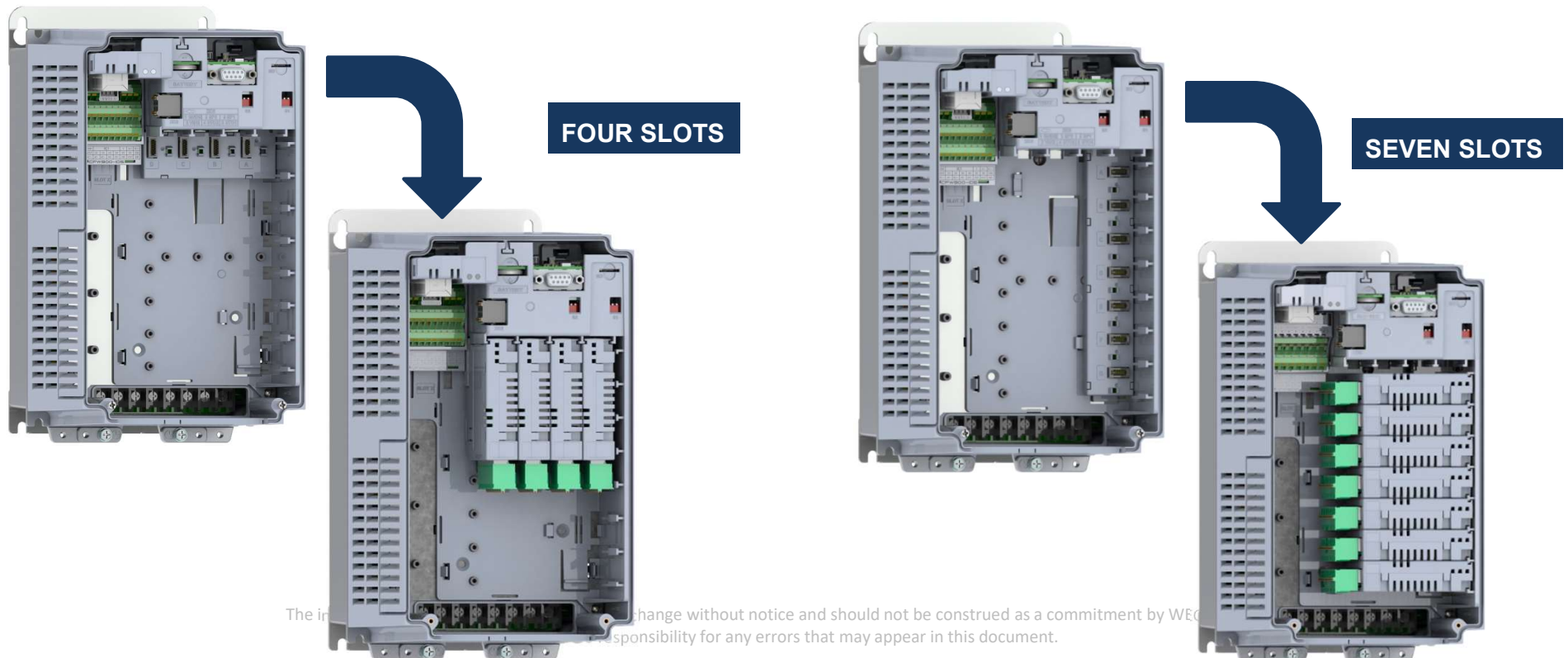


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Accessories



- 4 Slots with the possibility of expansion to 7 Slots.
- Position for accessory modules is not fixed, allowing the installation of more modules of the same type.



Accessories



Remote HMI

- Cables from 1 to 10 meters



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Accessories



I/O's expansion

CFW900-IOAI-01

3 analog inputs
2 analog outputs (isolated)

CFW900-TEMP-01

6 PTC/PT100/PT1000 temperature inputs

CFW900-IOD-01

8 digital inputs (isolated)
8 digital outputs (isolated)

CFW900-ENC-01

Incremental encoder input Interface for 5 or 12 V_{DC}, 310 kHz, with repeater

CFW900-REL-01

3 digital relay outputs

Accessories



Network communication

CFW900-CCAN-W

CAN interface module (CANopen, DeviceNet)

CFW900-CDP-N

Profibus DP-V1 Interface Module

CFW900-CPN-IRT

Profinet IRT Interface Module 2-Port

CFW900-CECAT-N

EtherCAT Interface Module 2-Port

CANopen®

DeviceNet™

PROFI®
BUS

PROFI®
NET

EtherCAT®

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Environment



- Altitude: 0...1000 m (0...3300 ft.)
 - **1%** derating in the nominal current for every 100 m (330 ft.) over 1000 m, limited to 4000 m (13200 ft.);
 - **1.1%** derating in the maximum voltage for every 100 m (330 ft.) over 2000 m (6600 ft.), limited to 4000 m (13,200 ft.).
- Humidity: 5...95% (non-condensing). Avoid sea spray.
- Avoid installation in excessive vibration.
- Frames A, B, C and D: -10...50 °C (14...122 °F)
 - **2%** derating in the nominal current for every 1 °C (or 1,11% every 1°F) over 50 °C, limited to 60 °C (140 °F).
- Frame size E: -10...45 °C (14...113 °F)
 - **2%** derating in the nominal current for every 1 °C (or 1,11% every 1°F) over 45 °C, limited to 60 °C (140 °F).

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Mechanical Installation



Positioning and fixing



Surface mounting



Flange mounting
with **IP55**

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Mechanical Installation



Inverter clearances



Frame size	A mm (in)	B mm (in)	C mm (in)	D mm (in)	Index of Protection
A	25 (1)	25 (1)	10 (0.4)	0	IP20
				30 (1.2)	IP21
B	40 (1.6)	45 (1.8)	10 (0.4)	0	IP20
				30 (1.2)	IP21
C, D	110 (4.3)	130 (5.1)	10 (0.4)	0	IP20
				30 (1.2)	IP21
E	150 (6)	250 (10)	20 (0.8)	0	IP20
				30 (1.2)	IP21

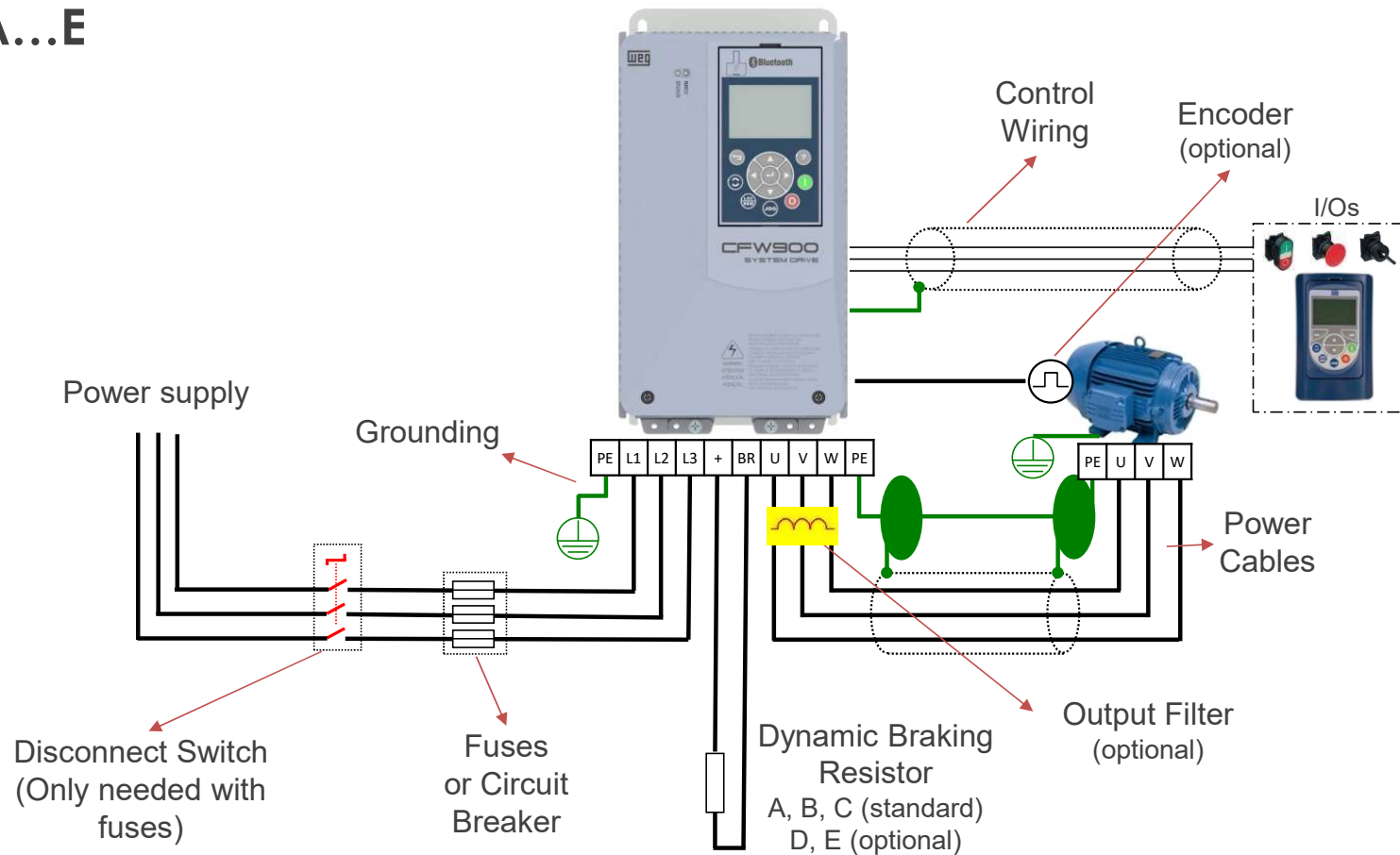


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Electrical Installation



Frames A...E



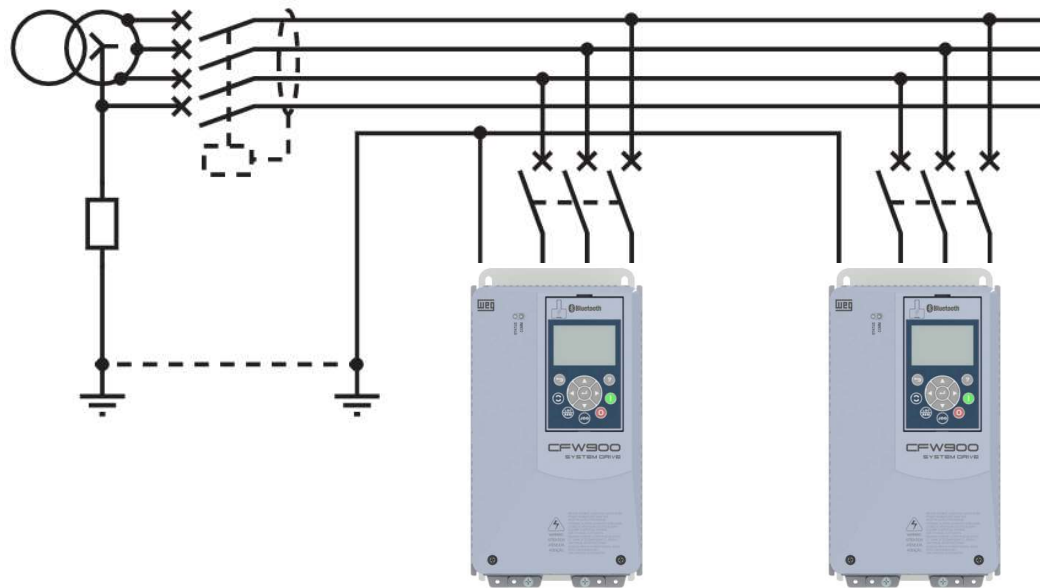
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Electrical Installation



IT network (IE: Grounding System)

Transformer neutral point are not connected to the ground or connected by high impedance resistor.



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Fuses



The recommended fuses at the input are fast-action type class J for UL panels and aR for IEC panels.



INSTALLATION AND CONNECTION

Table 3.7: Fuse specifications as per UL standard										
English	Model	Maximum Short-Circuit Current of the Power Supply [A]	Protection with Type J Fuses		AC Power Supply		Protection with High Speed Fuses		DC Power Supply	
			Panel	Fuse Rated Current [A]	Fuse Recommendation	Fuse Rated Current [A]	Fuse Recommendation	Fuse Rated Current [A]	Fuse Recommendation	
	CFW00A04P082			-	-	-	-	35	Mersen ATQ00A35	
	CFW00A06P082			-	-	-	-	35	Mersen ATQ00A35	
	CFW00A07P082			-	-	-	-	35	Mersen ATQ00A35	
	CFW00A10P082			-	-	-	-	35	Mersen ATQ00A35	
	CFW00A04P12			-	-	-	-	35	Mersen ATQ00A35	
	CFW00A06P12			-	-	-	-	35	Mersen ATQ00A35	
	CFW00A07P12			-	-	-	-	35	Mersen ATQ00A35	
	CFW00A10P12			-	-	-	-	35	Mersen ATQ00A35	
	CFW00A04P16			-	-	-	-	35	Mersen ATQ00A35	
	CFW00A06P16			-	-	-	-	35	Mersen ATQ00A35	
	CFW00A07P16			-	-	-	-	35	Mersen ATQ00A35	
	CFW00A10P16			-	-	-	-	35	Mersen ATQ00A35	
	CFW00A04P20			-	-	-	-	60	Mersen ATQ00A60	
	CFW00A06P20			-	-	-	-	60	Mersen ATQ00A60	
	CFW00A07P20			-	-	-	-	60	Mersen ATQ00A60	
	CFW00A10P20			-	-	-	-	60	Mersen ATQ00A60	
	CFW00A04P25			-	-	-	-	60	Mersen ATQ00A60	
	CFW00A06P25			-	-	-	-	60	Mersen ATQ00A60	
	CFW00A07P25			-	-	-	-	60	Mersen ATQ00A60	
	CFW00A10P25			-	-	-	-	60	Mersen ATQ00A60	
	CFW00A04P32			-	-	-	-	100	Mersen ATQ0100	
	CFW00A06P32			-	-	-	-	100	Mersen ATQ0100	
	CFW00A07P32			-	-	-	-	100	Mersen ATQ0100	
	CFW00A10P32			-	-	-	-	100	Mersen ATQ0100	
	CFW00A04P40			-	-	-	-	100	Mersen ATQ0100	
	CFW00A06P40			-	-	-	-	100	Mersen ATQ0100	
	CFW00A07P40			-	-	-	-	100	Mersen ATQ0100	
	CFW00A10P40			-	-	-	-	100	Mersen ATQ0100	
	CFW00A04P50			-	-	-	-	100	Mersen ATQ0100	
	CFW00A06P50			-	-	-	-	100	Mersen ATQ0100	
	CFW00A07P50			-	-	-	-	100	Mersen ATQ0100	
	CFW00A10P50			-	-	-	-	100	Mersen ATQ0100	
	CFW00A04P63			-	-	-	-	100	Mersen ATQ0100	
	CFW00A06P63			-	-	-	-	100	Mersen ATQ0100	
	CFW00A07P63			-	-	-	-	100	Mersen ATQ0100	
	CFW00A10P63			-	-	-	-	100	Mersen ATQ0100	
	CFW00A04P80			-	-	-	-	100	Mersen ATQ0100	
	CFW00A06P80			-	-	-	-	100	Mersen ATQ0100	
	CFW00A07P80			-	-	-	-	100	Mersen ATQ0100	
	CFW00A10P80			-	-	-	-	100	Mersen ATQ0100	
	CFW00A04P100			-	-	-	-	100	Mersen ATQ0100	
	CFW00A06P100			-	-	-	-	100	Mersen ATQ0100	
	CFW00A07P100			-	-	-	-	100	Mersen ATQ0100	
	CFW00A10P100			-	-	-	-	100	Mersen ATQ0100	
	CFW00A04P125			-	-	-	-	100	Mersen ATQ0100	
	CFW00A06P125			-	-	-	-	100	Mersen ATQ0100	
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CFW00A10P200			-	-	-	-	100	Mersen ATQ0100		
CFW00A04P250			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P250			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P250			-	-	-	-	100	Mersen ATQ0100		
CFW00A10P250			-	-	-	-	100	Mersen ATQ0100		
CFW00A04P315			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P315			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P315			-	-	-	-	100	Mersen ATQ0100		
CFW00A10P315			-	-	-	-	100	Mersen ATQ0100		
CFW00A04P400			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P400			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P400			-	-	-	-	100	Mersen ATQ0100		
CFW00A10P400			-	-	-	-	100	Mersen ATQ0100		
CFW00A04P500			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P500			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P500			-	-	-	-	100	Mersen ATQ0100		
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CFW00A04P630			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P630			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P630			-	-	-	-	100	Mersen ATQ0100		
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CFW00A07P1000			-	-	-	-	100	Mersen ATQ0100		
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CFW00A04P1250			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P1250			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P1250			-	-	-	-	100	Mersen ATQ0100		
CFW00A10P1250			-	-	-	-	100	Mersen ATQ0100		
CFW00A04P1600			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P1600			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P1600			-	-	-	-	100	Mersen ATQ0100		
CFW00A10P1600			-	-	-	-	100	Mersen ATQ0100		
CFW00A04P2000			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P2000			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P2000			-	-	-	-	100	Mersen ATQ0100		
CFW00A10P2000			-	-	-	-	100	Mersen ATQ0100		
CFW00A04P2500			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P2500			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P2500			-	-	-	-	100	Mersen ATQ0100		
CFW00A10P2500			-	-	-	-	100	Mersen ATQ0100		
CFW00A04P3150			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P3150			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P3150			-	-	-	-	100	Mersen ATQ0100		
CFW00A10P3150			-	-	-	-	100	Mersen ATQ0100		
CFW00A04P4000			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P4000			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P4000			-	-	-	-	100	Mersen ATQ0100		
CFW00A10P4000			-	-	-	-	100	Mersen ATQ0100		
CFW00A04P5000			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P5000			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P5000			-	-	-	-	100	Mersen ATQ0100		
CFW00A10P5000			-	-	-	-	100	Mersen ATQ0100		
CFW00A04P6300			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P6300			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P6300			-	-	-	-	100	Mersen ATQ0100		
CFW00A10P6300			-	-	-	-	100	Mersen ATQ0100		
CFW00A04P8000			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P8000			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P8000			-	-	-	-	100	Mersen ATQ0100		
CFW00A10P8000			-	-	-	-	100	Mersen ATQ0100		
CFW00A04P10000			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P10000			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P10000			-	-	-	-	100	Mersen ATQ0100		
CFW00A10P10000			-	-	-	-	100	Mersen ATQ0100		
CFW00A04P12500			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P12500			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P12500			-	-	-	-	100	Mersen ATQ0100		
CFW00A10P12500			-	-	-	-	100	Mersen ATQ0100		
CFW00A04P16000			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P16000			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P16000			-	-	-	-	100	Mersen ATQ0100		
CFW00A10P16000			-	-	-	-	100	Mersen ATQ0100		
CFW00A04P20000			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P20000			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P20000			-	-	-	-	100	Mersen ATQ0100		
CFW00A10P20000			-	-	-	-	100	Mersen ATQ0100		
CFW00A04P25000			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P25000			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P25000			-	-	-	-	100	Mersen ATQ0100		
CFW00A10P25000			-	-	-	-	100	Mersen ATQ0100		
CFW00A04P31500			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P31500			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P31500			-	-	-	-	100	Mersen ATQ0100		
CFW00A10P31500			-	-	-	-	100	Mersen ATQ0100		
CFW00A04P40000			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P40000			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P40000			-	-	-	-	100	Mersen ATQ0100		
CFW00A10P40000			-	-	-	-	100	Mersen ATQ0100		
CFW00A04P50000			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P50000			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P50000			-	-	-	-	100	Mersen ATQ0100		
CFW00A10P50000			-	-	-	-	100	Mersen ATQ0100		
CFW00A04P63000			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P63000			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P63000			-	-	-	-	100	Mersen ATQ0100		
CFW00A10P63000			-	-	-	-	100	Mersen ATQ0100		
CFW00A04P80000			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P80000			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P80000			-	-	-	-	100	Mersen ATQ0100		
CFW00A10P80000			-	-	-	-	100	Mersen ATQ0100		
CFW00A04P100000			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P100000			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P100000			-	-	-	-	100	Mersen ATQ0100		
CFW00A10P100000			-	-	-	-	100	Mersen ATQ0100		
CFW00A04P125000			-	-	-	-	100	Mersen ATQ0100		
CFW00A06P125000			-	-	-	-	100	Mersen ATQ0100		
CFW00A07P125000			-	-	-	-	100	Mersen ATQ0100		
CFW00A10P125000			-	-	-					

(1) Panel with a minimum size of 1.5 times the size of the inverter.
 (2) Minimum panel dimensions (depth x height x width): 600x1000x600 mm (23.6x39.3x23.6 in)
 (3) Minimum panel dimensions (depth x height x width): 600x1700x550 mm (23.6x66.9x21.6 in)
 (4) Minimum panel dimensions (depth x height x width): 650x1900x550 mm (25.6x74.8x21.6 in)
 (5) Minimum panel dimensions (depth x height x width): 820x2000x650 mm (32.3x78.7x25.6 in)

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Electrical Installation



Inverse-time circuit breaker

Can be used instead of fuses, in circuits with short-circuit current (I_{sc}) no more than 65 kA (480 V).



Table 3.8: Circuit breaker specifications as per UL and IEC standards

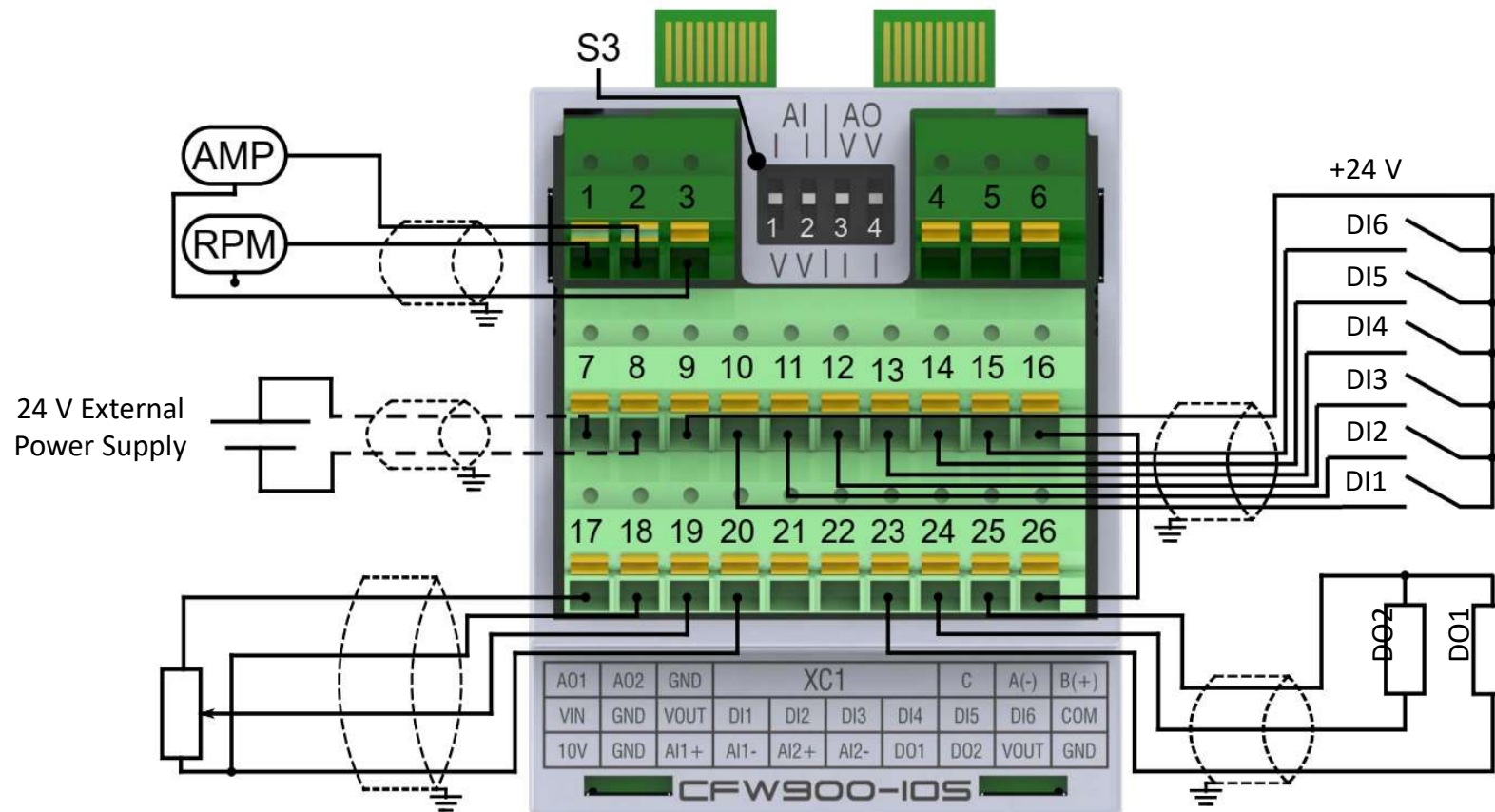
Model	Maximum Short-Circuit Current of the Power Supply [kA]	Maximum Circuit Breaker Rated Current [A]	Circuit Breaker Protection		Minimum Panel Dimensions (Width x Height x Depth) [mm (in.)]
			UL (CB type)	IEC (ACW type)	
CFW900A04P6B2	5 ⁽¹⁾ or 65 ⁽²⁾	15	UBW225H-FTU15-3A	ACW100H-FMU20-3	500x600x500 (19.7x23.6x19.7)
CFW900A06P0B2		20	UBW225H-FTU20-3A	ACW100H-FMU20-3	
CFW900A07P5B2		30	UBW225H-FTU30-3A	ACW100H-FMU25-3	
CFW900A10P0B2		40	UBW225H-FTU40-3A	ACW100H-FMU40-3	
CFW900A04P6T2		15	UBW225H-FTU15-3A	ACW100H-FMU20-3	
CFW900A06P0T2		20	UBW225H-FTU20-3A	ACW100H-FMU20-3	
CFW900A07P5T2		30	UBW225H-FTU30-3A	ACW100H-FMU25-3	
CFW900A10P6T2		40	UBW225H-FTU40-3A	ACW100H-FMU40-3	
CFW900A13P0T2		50	UBW225H-FTU50-3A	ACW100H-FMU50-3	
CFW900A19P0T2		70	UBW225H-FTU70-3A	ACW100H-FMU63-3	
CFW900B26P0T2		100	UBW225H-FTU100-3A	ACW100H-FMU100-3	
CFW900B34P0T2		125	UBW225H-FTU125-3A	ACW160H-FMU125-3	
CFW900B45P0T2		150	UBW225H-FTU150-3A	ACW160H-FMU160-3	
CFW900C56P0T2	10 ⁽¹⁾ or 65 ⁽²⁾	200	UBW225H-FTU200-3A	ACW250H-ATU200-3	500x800x600 (19.7x31.5x23.6)
CFW900C70P0T2		250	UBW250H-FTU250-3A	ACW250H-ATU250-3	
CFW900C80P0T2		300	UBW400H-FTU300-3A	ACW250H-ATU250-3	
CFW900D01P0T2		300	UBW400H-FTU300-3A	ACW250H-ATU250-3	
CFW900D0135T2		400	UBW400H-FTU400-3A	ACW400H-ETS400-3	
CFW900D0150T2		400	UBW400H-FTU400-3A	ACW400H-ETS400-3	
CFW900E0172T2		500	UBW600H-FTU500-3A	ACW400H-ETS400-3	
CFW900E0195T2		500	UBW600H-FTU500-3A	ACW400H-ETS400-3	
CFW900E0250T2		600	UBW600H-FTU600-3A	ACW630H-ETS630-3	
CFW900F0315T2		800	UBW800H-FTU800-3A	ACW800H-ETS800-3	
CFW900F0370T2		800	UBW800H-FTU800-3A	ACW800H-ETS800-3	
CFW900A02P6T4	5 ⁽¹⁾ or 65 ⁽²⁾	15	UBW225H-FTU15-3A	ACW100H-FMU20-3	500x600x500 (19.7x23.6x19.7)
CFW900A04P6T4		15	UBW225H-FTU15-3A	ACW100H-FMU20-3	
CFW900A06P5T4		20	UBW225H-FTU20-3A	ACW100H-FMU25-3	
CFW900A09P6T4		30	UBW225H-FTU30-3A	ACW100H-FMU32-3	
CFW900A14P0T4		50	UBW225H-FTU50-3A	ACW100H-FMU50-3	
CFW900A17P0T4		60	UBW225H-FTU60-3A	ACW100H-FMU63-3	
CFW900B26P0T4		100	UBW225H-FTU100-3A	ACW100H-FMU100-3	
CFW900B33P0T4		125	UBW225H-FTU125-3A	ACW160H-FMU125-3	
CFW900B39P0T4		150	UBW225H-FTU150-3A	ACW160H-FMU160-3	
CFW900C50P0T4		200	UBW225H-FTU200-3A	ACW250H-ATU200-3	
CFW900C62P0T4		225	UBW225H-FTU225-3A	ACW250H-ATU200-3	
CFW900C74P0T4		250	UBW225H-FTU250-3A	ACW250H-ATU250-3	
CFW900D09P0T4	10 ⁽¹⁾ or 65 ⁽²⁾	300	UBW400H-FTU300-3A	ACW250H-ATU250-3	500x1000x500 (19.7x39.3x19.7)
CFW900D0124T4		300	UBW400H-FTU300-3A	ACW250H-ATU250-3	
CFW900D0146T4		400	UBW400H-FTU400-3A	ACW400H-ETS400-3	
CFW900E0172T4		500	UBW600H-FTU500-3A	ACW400H-ETS400-3	
CFW900E0203T4		600	UBW600H-FTU600-3A	ACW400H-ETS400-3	
CFW900E0242T4		600	UBW600H-FTU600-3A	ACW630H-ETS630-3	
CFW900F0315T4		800	UBW800H-FTU800-3A	ACW800H-ETS800-3	
CFW900F0370T4		800	UBW800H-FTU800-3A	ACW800H-ETS800-3	
CFW900G0430T4		1200	UBW1200H-ELS1200-3A	ACW1600H-AG11250-3	
CFW900G0480T4		1200	UBW1200H-ELS1200-3A	ACW1600H-AG11250-3	
CFW900G0560T4		1200	UBW1200H-ELS1200-3A	ACW1600H-AG11250-3	
CFW900G060T4		1200	UBW1200H-ELS1200-3A	ACW1600H-AG11250-3	
CFW900H0760T4	18 ⁽¹⁾ or 65 ⁽²⁾	2000	UBW2500H-ELS2000-3A	ABW25ES3-20	820x2000x650 (32.3x78.7x25.6)

(1) Standard fault.
(2) High fault.

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Electrical Installation

Control wiring

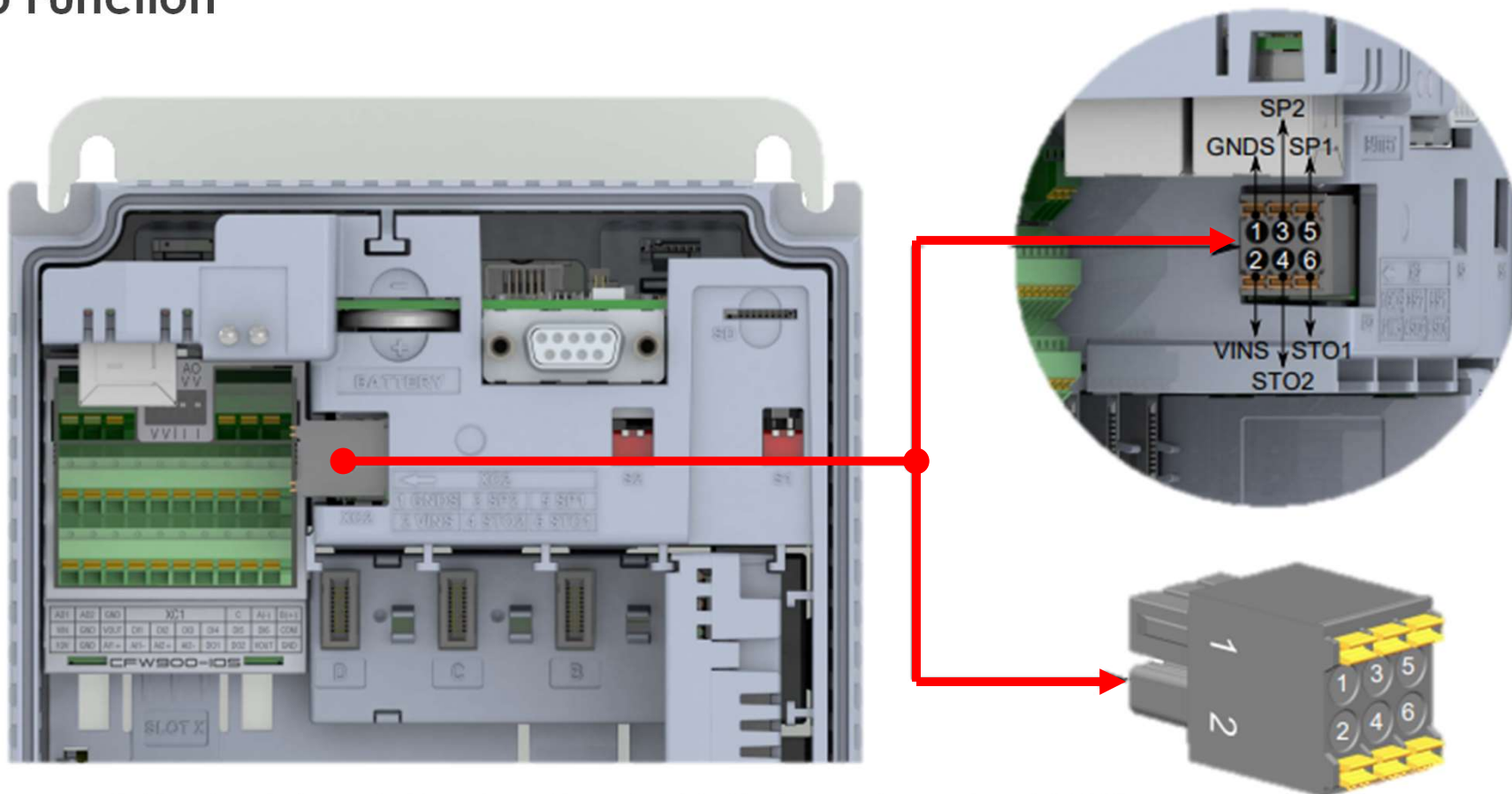


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Electrical Installation



Safe Stop Function

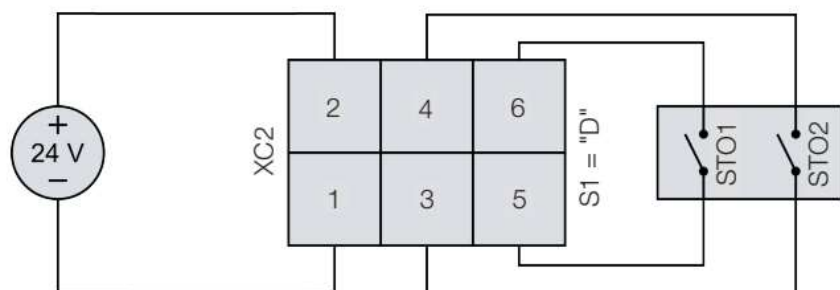


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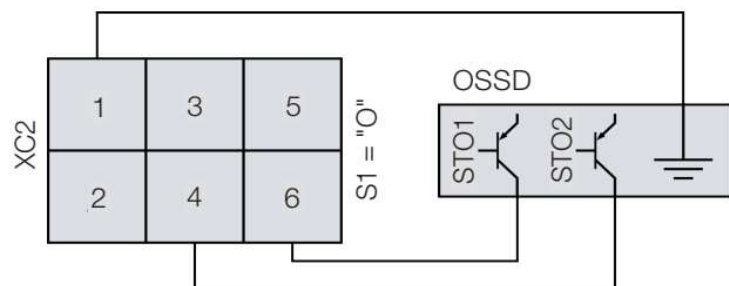
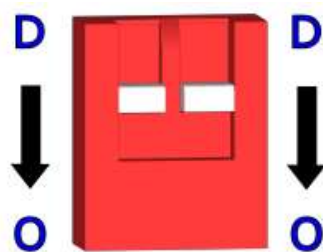
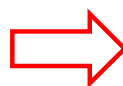
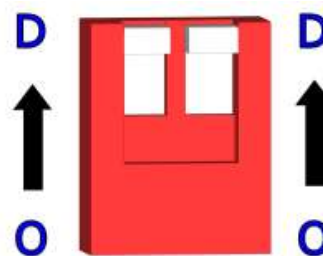
Electrical Installation



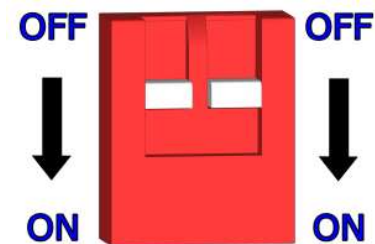
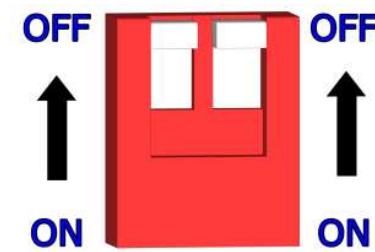
Safe Stop Function



S1 DIP-switches configuration



S2 DIP-switches configuration

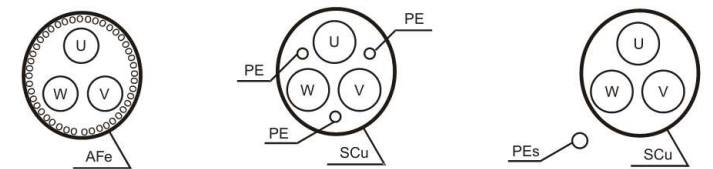
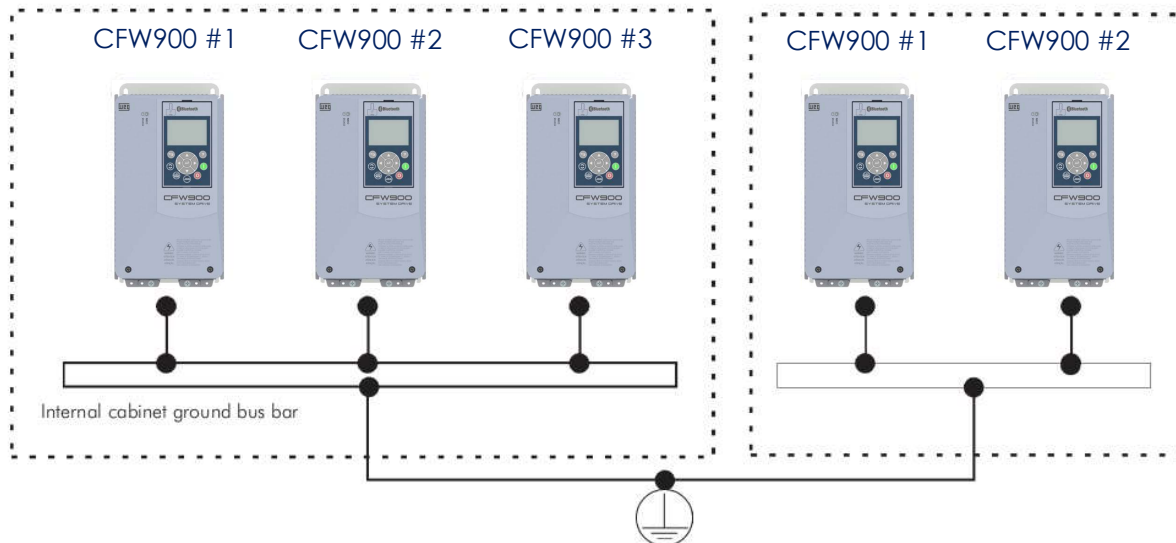


Electrical Installation

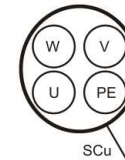


Grounding

- Shielded cables are recommended.;
- Ground the inverters on the panel ground bar;
- Panels must be grounded locally.



(a) Symmetrical shielded cables: three concentric conductors with or without a ground conductor, symmetrically manufactured, with an external shield of copper or aluminum.



(b) Alternatives for conductors up to 10 mm²

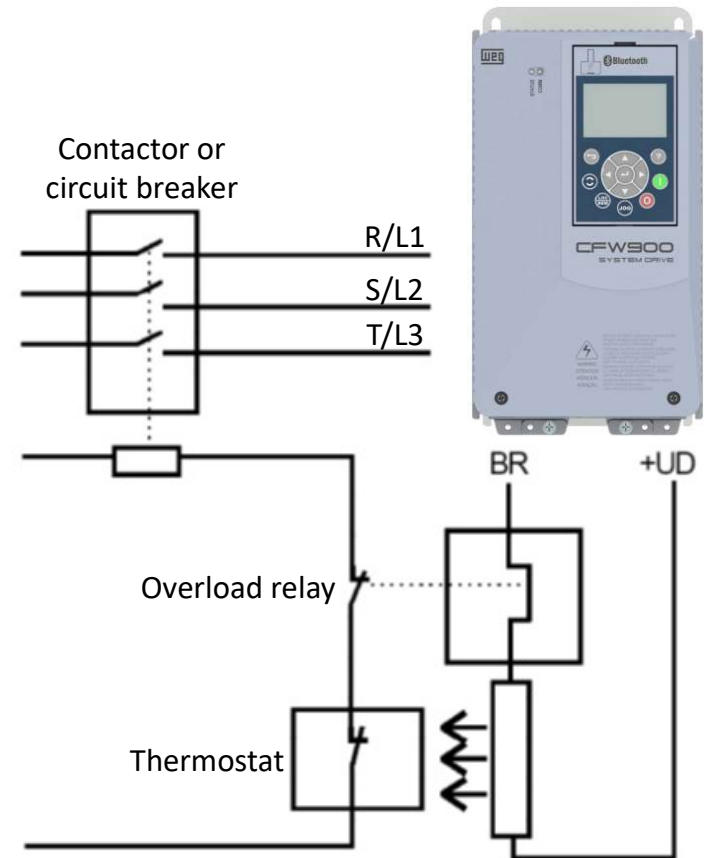
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Electrical Installation



Dynamic braking resistor

- Connect at +UD and BR;
- Use twisted cables.

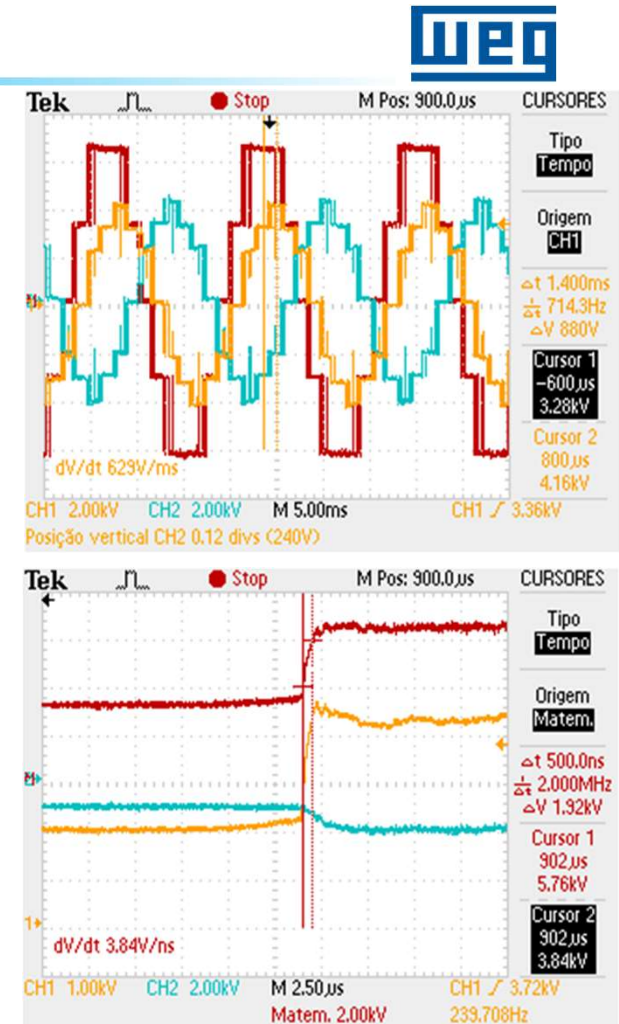


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Electrical Installation

Output filter

- The CFW900 includes an output filter for up to 200M.
- An output filter is necessary for installations with output cables between 200 and 500 m. For installations with longer cables, or for use with motors that do not support PWM, it is recommended to use special filters (dV/dt or sinusoidal).



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