UNITROL® 1010 and UNITROL® 1020

UNITROL® 1020 combines high performance control and power circuits with a simple mechanical design. The construction provides a platform for a broad range of applications, including those in highly demanding environmental conditions.

Furthermore, high levels of EMC immunity is achieved through separation of the power and measurement terminals from the I/O connectors.

Polymer housing •

 Protects all live parts to prevent electric shocks.

USB port ►

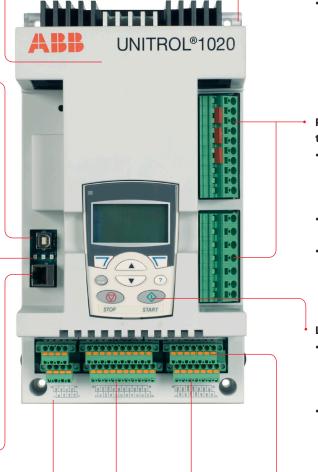
- Connects the CMT1000 (commissioning and maintenance tool);
- Device configuration, event and data upload without any control supply voltage possible.

Indication LEDs •

- Green: Power ON, blinking indicates software is running;
- Yellow: Excitation ON, blinking indicates Limiter is active;
- Red: Alarm, blinking indicates start up error.

Ethernet port •

- Connects the CMT1000;
- Remote access over Modbus TCP.



Solid aluminium base plate

 Robust mechanical design allows use in high vibration applications.

Power and measurement terminals

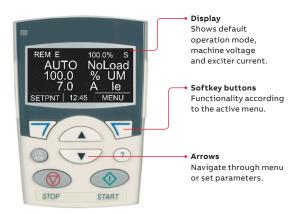
- Specified up to 30 A continuous current and cable up to 4 mm² (AWG 24–10):
- Tension spring terminals for reliable connection;
- Easy access over test points.

Local human interface

- Intuitive local control "panel for indication of AVR status, active limiters and measurements:
- Local control can be taken over to change parameters.

Analog and digital inputs and outputs, serial fieldbus

 Tension spring connectors allow reliable wiring and fast replacement. Local human-machine interface of the UNITROL® 1020 provides immediate data on AVR status.



UNITROL® 1010 is a compact device supporting a subset of UNITROL® 1020 and is designed for excitation currents up to 10 A nominal. It supports the same interfaces and has the same mechanical footprint as UNITROL® 1020.

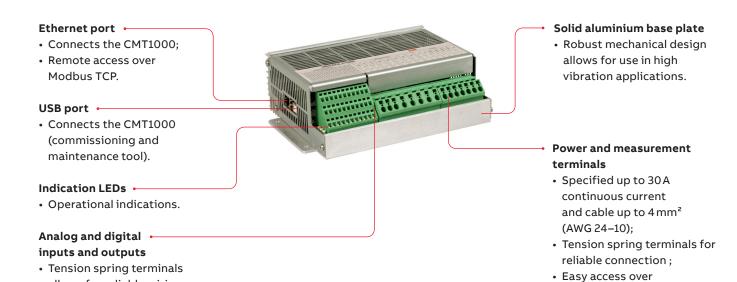


test points.

UNITROL® 1005

allows for reliable wiring.

UNITROL® 1005 is the most compact UNITROL® 1000 device and is designed for excitation currents up to 5 A nominal.



UNITROL® 1000 hardware types

Hardware types overview	UNITROL® 1005	UNITROL® 1010	UNITROL® 1020
Excitation current	5 A cont., 10 A ceiling @ 70 °C ambient temp.	10 A cont., 25 A ceiling @ 55 °C ambient temp.	20 A cont., 38 A ceiling @ 55 °C ambient temp.
Separate terminals for aux power supply	NO	YES	YES
Human interface	NO	NO	YES
Analog and digital I/Os	Digital: 4 outputs, 8 inputs Analog: 2 outputs	Digital: 8 I/Os, 4 inputs Analog: 3 inputs, 2 outputs	Digital: 8 I/Os, 4 inputs Analog: 3 inputs, 2 outputs
Interfaces	USB Ethernet	USB RS485/(CAN) Ethernet	USB RS485/(CAN) Ethernet
Mechanicals	IP20	IP20	IP20
Certifications	CE, DNV/GL, Traction	CE, cUL, DNV, GL, CCS, Traction	CE, cUL, DNV, GL, CCS, Traction

Order codes

UNITROL® 1010 and UNITROL® 1020

Material description	Order code
UNITROL 1010-0002 LIGHT	3BHE035301R0002
UNITROL 1010-0003 BASIC	3BHE035301R0003
UNITROL 1020-0003 BASIC	3BHE030579R0003
UNITROL 1020-0006 FULL	3BHE030579R0006
UNITROL 1020-0007 FULL + PSS	3BHE030579R0007

UNITROL® 1005

Material description	Order code	
UNITROL 1005-0011 ECO	3BHE043576R0011	
UNITROL 1005-0012 LIGHT	3BHE043576R0012	