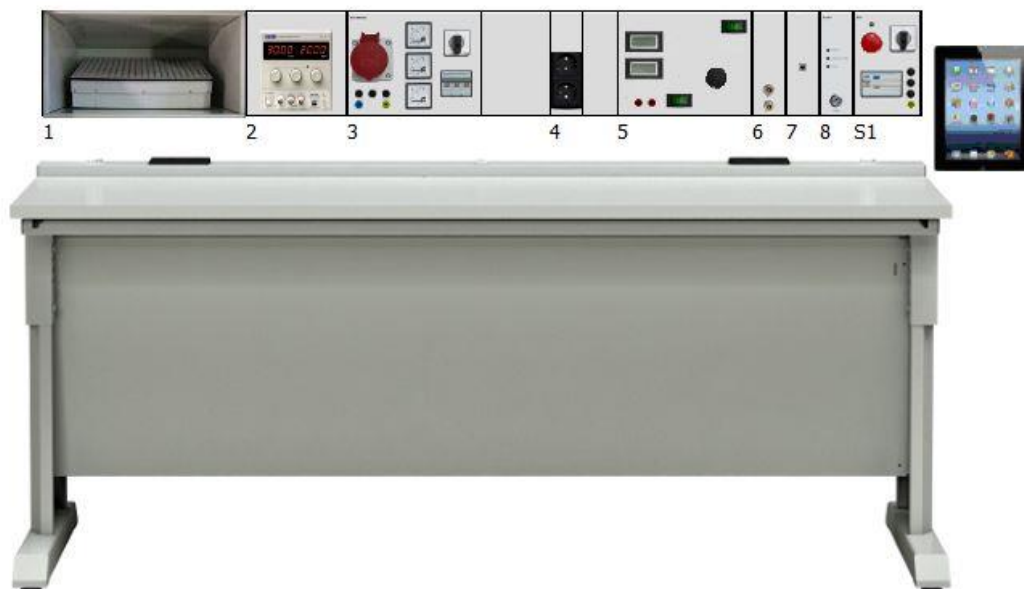


Electrical Installation Technology Workstation



Workstation Frames		
HELP3L17	Help3 multipurpose workstation, 1710 x 580-810 mm	1 x
HELP3SOCKEU	Schuko sockets for Help3 workstation, 4 pcs	1 x
LOCK3M	Manual lock for Help3 workstation	1 x
Equipment Panels		
DEFAULT_HELP3L17	Default panel for HELP3L17	1 x
Power Supply Units		
(S1) SU3	3-phase supply unit	1 x

Modules		
(1) STRBOX375	Storage box for the device panel, 375 mm	1 x
(2) DCAEL303R	Variable DC power supply, 0-30 V, 3 A	1 x
(3) ACF40016G	3-phase AC connection, 230/400 V, 16 A	1 x
(4) ELPSL2	1-phase schuko socket outlets, 2 pcs	1 x
(5) ACA505	1 phase variable AC power supply, 0-50 V, 5 A	1 x
(6) PILT	Compressed air connection	1 x
(7) LAN-8	LAN switch, 8 ports	1 x
(8) SUNET	Supply unit control module	1 x
Accessories		
TMLC	Mobile laboratory control	1 x

HELP3L17 Multipurpose workstation

- Multipurpose construction: electric workstation and theory desk in one solution
- Built-in instrument panel for integrated electrical instruments, instrument panel located under a sliding table top
- Sliding table top movable forwards and backwards to enable / hide the instrument panel
- Sliding table top can be locked to prevent access to the instrument panel
- Modular instrument panel:
 - Devices can be added afterwards
 - Instrument panel is slanted to achieve best possible usability
- Integrated modules are covered with polyester film to ensure long lifetime for the markings in the front panel
- Workstation frame and instrument panel made of steel
- L-shaped ergonomic legs for more space under workstation
- Adjustable height 710-780 mm
- Adjustment screws under the workstation to eliminate the roughness of the floor
- Table top with laminate coating, durable plastic edges, colour light grey
- 4 pcs sockets in the energy channel located at the rear part of the workstations. Sockets are available also when the table top is in closed position.
- Can be equipped with upright tubes for fixing accessories such as training panel frames, shelves etc.
- Dimensions: 1710(W) x 580-810(D) mm



HELP3SOCKEU Socket outlets for Help3 workstation

- 4 pcs schuko sockets under Help3 workstation
- Suitable e.g for powering desktop computers and displays

LOCK3M Manual lock for Help3 workstation

- Manual lock for the sliding table top in Help3 workstation
- Two keys

SU3 3-phase supply unit

- Operating voltage: 400 V \pm 10 % AC, 50-60 Hz
- Main switch for the workstation with START position
- Green indicator lights
- Integrated emergency switch, reset from main switch
- Automatic restart prevention system e.g. after power failure
- Protection circuit for missing phase / wrong phase order
- 16A thermal overload protector for each phase
- Fault current protection 0.03 A for all devices connected to the supply unit
- Earth terminal screw
- Outlets for the device modules
- Dimensions: ½-module, 125(W) x 200(H) mm



STRBOX375 Storage box

- Integrated storage box for the device panel
- Powder-painted steel frame
- Suitable for storing training sets, test leads etc.
- Internal dimensions: 360(W) x 380(D) x 180(H) mm



DCAEL303R Variable DC power supply

- Output values: 0-30 V, 0-3 A, 90 W
- Linear regulation
- Constant voltage or constant current operation
- Voltage Setting: By coarse and fine controls
- Current Setting: By single logarithmic control
- Independent digital voltage and current meters for each output with 4 digit resolution
- Voltage meter:
 - Resolution: 10 mV
 - Accuracy: 0.3 % of reading \pm 3 digits
- Current Meter:
 - Resolution: 1 mA
 - Accuracy: 0.5 % of reading \pm 3 digits
- Ripple & noise: Typically < 1 mV rms (CV mode, 20 mHz bandwidth)



- Switchable local or remote sensing
- Silent fan-free cooling
- DC output on/off switch
- All outputs are intrinsically short circuit proof, and are protected against external voltages and reverse currents
- Output terminals: Universal 4mm safety binding posts on 19mm (0.75") spacing. Terminals can accept fixed shroud 4 mm plugs, standard 4 mm plugs, fork terminals and bare wires
- Dimensions: ¾ module, 187,5(W) x 200(H) mm

ACF40016G 3-phase AC connection

- Two safety earthed AC outputs:
 - Output 1: Socket, 230 / 400 V AC, 16 A, 3L+N+PE, 6H, red
 - Output 2: 4 mm safety terminals, 230 / 400 V AC, 16 A, 3L+N+PE
- Main switch / output selection switch, one output active at a time
- Analog ammeters 0-16 A for L1, L2, L3
- Thermal / magnetic circuit breaker, 16 A
- Dimensions: 1 module, 250(W) x 200(H) mm



ELPSL2 1-phase socket outlets

- 2 pcs earthed schuko socket outlets
- Dimensions: ¼-module, 62.5(W) x 200(H) mm



ACA505 1 phase variable AC power supply

- Variable transformer 0-50 V, 5 A AC
- Galvanic isolation
- Overload protection
- Output: 4 mm safety terminals
- Digital meters for output voltage and current
- Voltage measuring: 0-10 V AC, best resolution 1 mV and 10-50 VAC 10 mV, accuracy 1 %
- Current measuring: 0-5 A AC, best resolution 10 mA, accuracy 1 %
- Main switch with indicator light
- Dimensions: 1 module, 250(W) x 200(H) mm



PILT Compressed air connection

- 2 pcs 1/2" snap-on connectors
- Dimensions, ¼-module, 62.5(W) x 200(H) mm



LAN-8 Ethernet switch

- 8-port 1 G Ethernet switch
- 1 x RJ45 at the front panel for an optional device
- 1 x RJ45 at the table frame for laboratory network connection
- 6 x RJ45 inside the module for panel equipment
- Dimensions: 62.5(W) x 200(H) mm



SUNET Supply unit control module

- Enables remote control for electricity in the workbench (requires TLC software)
- Features
 - Connection permission for power
 - Power off control
 - Power on/off status information
- Key switch for bypassing software control
- Ethernet connection
- Dimensions: ¼ module, 62.5(W) x 200(H) mm



TMLC Mobile laboratory control

Unique TEKLAB Mobile Laboratory Control (TMLC) gives teacher a possibility to control a laboratory remotely using a mobile device such as a tablet or a smart phone.

With TMLC the teacher can:

- Open the laboratory by driving the Help5 benches up and enabling electricity
- Close the laboratory by switching power off and driving Help5 benches down
- Apply voltage and current limitations to power supplies (requires ACP/TLP Client options)

TMLC includes:

- TMLC software
- Tablet device



