



DESCRIPTION

The CL-7121-02 is a mobile test bench which offers four (4) internal, isolated variable power supplies and two (2) different types of socket, 120 V AC. The bench also includes variable resistive loads, voltmeters and ammeters. It can be used to verify AC/DC motors with voltage requirements from 0 to 250 V DC or 0 to 600 V AC. Characteristics of the test bench include:

CONSTRUCTION

The bench consists of a wood-laminated working table fixed on a metal base with swivel casters. The control panel measures 150 x 148 x 75 cm.

SUPPLY VOLTAGE

The CL-7121-02 is supplied with two (2) three-phase inputs, 120/208 V AC, 4 wires, 20 A and 347/600 V AC, 4 wires, 20 A, with twist-and-lock plugs.

INTERNAL POWER SUPPLIES

Source A

Variable voltage, 0-347/600 V AC, 15 A AC; three phase, thermal protection; built-in digital ammeter and voltmeter.

Source B

Variable voltage, 0-120/208 V AC, 15 A AC; three phase, thermal protection; built-in digital ammeter and voltmeter.

Source C

Variable voltage, 0-250V AC, 10 A AC; single phase, 2.5 kVA, thermal protection; built-in digital ammeter and voltmeter.

Source D

Variable voltage, 0-250V DC, regulated, filter providing minimum ripple to 10 A; adjustable current limiter; built-in digital ammeter and voltmeter.

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RESISTIVE LOAD BANK

The CL-7121-02 built-in resistive load bank is designed to test various voltage sources (16, 24, 48, 60 and 120 V). Using selectors, the user can test each voltage source at different power levels ($\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, and nominal). The load bank consists of four (4) identical groups mounted in parallel with switches so as to verify each voltage source at a given power level with 200-W power threshold. The resistive load groups are the following:

- Four (4) resistive load groups, 10 Ω , 50 W (for testing 16 V sources, at 1.6 A),
- Four (4) resistive load groups, 25 Ω , 50 W (for testing 24 V sources, at 1.0 A),
- Four (4) resistive load groups, 100 Ω , 50 W (for testing 48 V sources, at 0.5 A),
- Four (4) resistive load groups, 150 Ω , 50 W (for testing 60 V sources, at 0.4 A), and
- Four (4) resistive load groups, 300 Ω , 50 W (for testing 120 V sources, at 0.4 A).

The resistive load bank also includes a rotary rheostat, 0 – 500 Ω , 500 W.

ACCESSORIES

The following accessories are included with the CL-7121-02 test bench:

- One (1) built-in multiple power bar with eight (8) isolated outlets, 120 V AC,
- One (1) isolated socket, 120 V AC, 15 A,
- One (1) DDFT socket with ground connection, 120 V AC, 15 A,
- One (1) storage compartment,
- Four (4) glide-out drawers,
- Twenty (20) 16AWG patchcords, 1 m, with banana plugs including five (5) black, five (5) blue, five (5) red and five (5) white,
- Twenty (20) 16AWG patchcords, 1 m, with alligator/banana plugs including five (5) black, five (5) blue, five (5) red and five (5) white,
- Twenty (20) 16AWG patchcords, 1 m, with alligator/banana plugs including five (5) black, five (5) blue, five (5) red and five (5) white,
- One (1) green 16AWG patchcord, 1 m, with alligator/banana plugs,
- One (1) 45-cm fluorescent tube under the control panel.



SECTION COMPONENTS

SECTION	CONTROL AND INSTRUMENTATION	PROTECTION
- 1 - 347/600 V AC 15 A	<ul style="list-style-type: none"> - One (1) ON/OFF push-button switch - One (1) panic push-button (lockable) - One (1) three-phase autotransformer for manual output voltage control - Voltage indicating lamps for breaker input and output - One (1) digital voltmeter with line voltage selector - One (1) digital ammeter with line voltage selector - Five (5) safety sockets (4 mm / 32 A) for equipment power supply (L1, L2, L3 phases, neutral and ground) 	<ul style="list-style-type: none"> - Breaker, 15 A, for autotransformer input - Breaker, 1 A, for control circuit - Fuses, 15 A, for autotransformer output
- 2 - 120/208 V AC 15 A	<ul style="list-style-type: none"> - One (1) ON/OFF push-button switch - One (1) three-phase autotransformer for manual output voltage control - Voltage indicating lamps for breaker input and output - One (1) digital voltmeter with line voltage selector - One (1) digital ammeter with line voltage selector - Five (5) safety sockets (4 mm / 32 A) for equipment power supply (L1, L2, L3 phases, neutral and ground) 	<ul style="list-style-type: none"> - Breakers, 15 A, for autotransformer input and output
- 3 - 240 V AC 10 A	<ul style="list-style-type: none"> - One (1) ON/OFF push-button switch (breaker) - One (1) single-phase autotransformer for manual output voltage control - Voltage indicating lamps - One (1) digital voltmeter and one (1) digital ammeter - Two (2) safety sockets (4 mm / 32 A) for equipment power supply 	<ul style="list-style-type: none"> - Breaker, 10 A
- 4 - 250 V DC 10 A	<ul style="list-style-type: none"> - One (1) ON/OFF switch (breaker) - One (1) single-phase autotransformer for manual output voltage control - Voltage indicating lamps - One (1) digital voltmeter and one (1) digital ammeter - Two (2) safety sockets (4 mm / 32 A) for equipment power supply 	<ul style="list-style-type: none"> - Breaker, 15 A, for primary - Current limiter, 10 A max. for output
- 5A - / - 5B - RÉSISTIVE LOADS	<ul style="list-style-type: none"> - One rheostat, 500 Ω/500 W - Manual control and three (3) safety sockets (4 mm / 32 A) - Four (4) loads, 16 V - 1,6 A - Four (4) switches and two (2) safety sockets (4 mm / 32 A) - Four (4) loads, 24 V - 1 A - Four (4) switches and two (2) safety sockets (4 mm / 32 A) - Four (4) loads, 48 V - 0,5 A - Four (4) switches and two (2) safety sockets (4 mm / 32 A) - Four (4) loads, 60 V - 0,4 A - Four (4) switches and two (2) safety sockets (4 mm / 32 A) - Four (4) loads, 120 V - 0,4 A - Four (4) switches and two (2) safety sockets (4 mm / 32 A) 	<ul style="list-style-type: none"> - External by user
6A - / - 6B - 120 V AC OUTLETS ISOLATED AND DDFT	<ul style="list-style-type: none"> - One (1) ON/OFF switch with indicating lamp for each type of outlet. 	<ul style="list-style-type: none"> - Breaker, 10 A, for each type