

**Product Name :**  
Complete Training System For Dc Drives

**Product Code :**  
CE185



**Description :**

Complete Training System For Dc Drives

**Technical Specification :**

Complete Training System For DC Drives

Complete system for dc drives training. The experiments are carried out using a computed based interface (CBT) together with modules in panel frames. Topics:

Automatic control of multi-quadrant drive

Introduction to the requirements

Analysis of controlled systems

Analysis of actuating static converters

Optimisation of the current control loop

Recording of armature circuit constants

Adaptation of current controller

Adjustment of current limiting

Optimisation of speed control loop

Putting thyristor speed control in the first quadrant into operation

Setting of DC chopper and inverter stability limits

Recording of static converter control characteristic

Determination of armature circuit constants

Recording of the transient function of the controlled variable, armature current

Recording of the transient function of the controlled variable, armature current, with and without adaptive controller

Switchover of static converters

#### Setting current limiting

Determination of the integral-action coefficient for the 50/60 Hz

Secondary: 12 V AC, 20 VA

Connection: female

1 LIT: Power Electronics and Drive Technology (in English) Compact static converter-fed d.c. machines. Basic theoretical informations, equipment descriptions, experiment instructions.

10 Blank panel, 100 mm, CPS For mounting in any empty spaces in experiment assemblies to ensure a uniform appearance of the entire assembly. The plates are not equipped with any mounting hardware.

Dimensions:

Height: 297 mm

Width: 100 mm

1 Mobile Experiment Stand Mobile experiment stand with tray, 4 castors, 2 of them can be locked.

With aluminium profile 120 x 40 mm, surface powder-coated, colour dark grey DB 703 size: 1970 x 1294 x 700 mm prepared for assembling a panel frame, three level

1 Mobile cable holder For the organized, space-saving and mobile suspension of experiment cables. Two additional side receptacles for thicker cables (e.g. power cable, PC connecting cable, ...)

Material: rectangular steel, powder coated in DB gray; four light-weight casters; cable troughs in light gray

Cable troughs: 58

Dimensions (WxDxH): 550 x 404 x 1322 mm

3 Safety Bridging Plugs with Tap, black, set of 10 ten 4-mm safety bridging plugs with 19 mm spacing, colour black, with 2 4-mm taps max. current rating: 32 A.

1 Safety connecting leads, 32 A, set of 32 4-mm safety connecting leads with 2.5 mm<sup>2</sup> cable, current rating 32 A, consisting of:

2 each safety connecting lead, red 100 cm

2 each safety connecting lead, blue 100 cm

2 each safety connecting lead, red 50 cm

2 each safety connecting lead, blue 50 cm

2 each safety connecting lead, red 25 cm

2 each safety connecting lead, blue 25 cm

4 each safety connecting lead, black 100 cm

6 each safety connecting lead, black 50 cm

6 each safety connecting lead, black 25 cm

4 each safety connecting lead, black 10 cm

## Naugralabequipments

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