Product Name :	Product Code :
Electronic and Electric Drive Training System for Electrotechnics	CIVIL-EET-165-0001

Description :

Electronic and Electric Drive Training System for Electrotechnics

Technical Specification :

Overview of the electronic and electric drive training system

This system is designed for training with and studying analog and digital electronics, circuit principles and motor drag experiments. The training system consists of two parts, a workbench (including the power control panel) and experimental modules.

Technical parameter of the electronic and electric drive training system

Input power : three-phase, five-wire 380V±10% 50Hz/60Hz

Output power : AC 0~450V , AC 380V , AC 220V , DC 1.25 ~30V Two-way adjustable DC power supply,

DC 0 ~ 500mA Adjustable constant current source , AC 0~ 30V safety terminal output

Working environment : temperature -10? ~ +40? , relative humidity <85% (25?) , Altitude <4000m

Capacity : < 1.5kVA

Motor power : < 180W

Wireless power control distance : > 50m (Optional functions)

Total dimension : 1670×800×1750mm

Optional components

Oscilloscope

Multimeter

Signal source

Training Content?

Electrotechnic experiments

1. Basic electrotechnics instrumentation use and measurement error calculation

2. How to reduce instrument measurement error

3. Mapping of linear and nonlinear circuit elements voltage characteristics

4. The measurement of potential, voltage and drawing of circuit, potential

5. Kirchhoff's law verification

6. Superposition theorem verification

7. Equivalent transferring of voltage source and current source

8. Thevenin theorem verification

9. Norton Theorem verification

10. Dual-port network test

11. The experiment researching of controlled source VCCS, VCVS, CCVS, CCCS

12. The observation and measurement of typical electrical signal

13. RC first order circuit response test

14. Second order dynamic circuits response test

15. R, L, C component impedance characteristic test

16. R C series and parallel connection frequency selective network characteristic test

17. R, L, C series connection resonant circuit research

18. Measure AC circuit equivalent parameters with Three-meter method

19. Study sinusoidal steady AC circuit phasor (fluorescent power factor improvement experiments)

20. Mutual inductance circuit experiment

21. The testing of single-phase core transformer features

22. Three-phase AC circuit voltage, current measuring

23. Three-phase circuit power measurement

24. Single-phase walt hour meter calibration

25. Negative impedance converter and application

26. Gyrator and application

27. Power traction experiment:

28. Direct start controlling of three-phase asynchronous motor

29. Three-phase asynchronous motor contactor inching control circuit

30. Three-phase asynchronous motor contactor self-locking control circuit

31. Y- ? start automatic control circuit

32. Three-phase asynchronous motor contactor with button interlocking reversing control circuit

33. Three-phase asynchronous motor energy consumption braking control circuit

34. Without transformer half-wave rectification circuit energy consumption braking control circuit

35. With transformer full-wave rectification energy consumption braking control circuit

36. Sequence control of three phase asynchronous motor

37. Multi control of three phase asynchronous motor

38. Simulate the workbench auto back and forward control circuit

39. Electronic Experiment:

40. Amplifying circuit

41. Negative feedback amplifying circuit

42. Emitter follower

43. Common emitter amplifier circuit

44. Common collector amplifier circuit

45. Common base amplifier

46. Complementary symmetry power amplifier

47. The basic parameters test of the integrated operational amplifier

48. Integrated addition circuits

49. Integrated subtract circuits

50. Integrated integral circuits

51. Integrated differential circuit

52. Proportion summation circuit

53. Integrated op-amp first-order active filter

54. Voltage comparator research

55. Waveform generating circuits

56. Active Filter

57. Integrated power amplifier

58. Integrated circuit RC sinusoidal oscillator

59. Rectifier filtering and regulator circuit

60. Series regulator circuit

61. Integrated regulator

62. Waveform conversion circuit

63. Transistor switching characteristics, the limiter and clamper

64. Logic functions and parameters test of the TTL integrated logic gates

65. The logic functions and parameters test of CMOS integrated logic gate

66. Combinational logic circuit

67. Trigger

68. Sequential Circuits Testing and Research

69. Utilize gates circuits to generate a pulse signal

70. 555 time-base circuit

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