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SOURCE

Promyshlennaya Energetika, No 11, 1950, inside back cover.

HANDBOOK OF THE PLANT POWER ENGINEER. SHEET 59.
(CONTROL-MEASURING INSTRUMENTS)

Compiled by Engr R. Ye. Gel'man

1. Elektropul't Plant, Ministry of Electric Power Stations (continued)

FD-Ch. Frequency meters, ferrodynamic indicating-type. For ac circuits. Accuracy Class 1. Measuring range: 45-50-55 cps. Consumption up to 65 ma. Width 147 mm, height 172 mm, depth 103 mm + 23 mm (terminals). Weight 2.16 kg.

SKhM-1. Synchrosopes. For voltage of 100 v. Connecting in when frequency difference does not exceed 5%. Consumption in single-phase circuit 120 ma, in three-phase circuit 80 ma. Dimensions same as for type FD-Ch frequency meters but length of terminals is 28.5 mm. Weight 1.55 kg.

E-V₀. Voltmeters, null-indicating. Zero voltage indicators for synchronized equipment. Width 147 mm, height 172 mm, depth 87 mm + 23 mm (terminals). Weight 0.92 kg.

All Elektropul't Plant instruments are made with uniform-type rectangular plastic cases designed for flush mounting.

2. Plant of the Ministry of the Electrical Industry

M-1 (M-51, M-52, M-53, M-54). Ammeters, moving-coil, small. Stationary, for use in dc circuits. Accuracy Class 2.5. Types: for flush mounting -- M-51, unshielded, and M-52, shielded; for surface mounting -- M-53, unshielded, and M-54, shielded. Measuring range: 1, 5, 10, 10-1, 5-0-5, 10-0-10 amp without external shunt and 20, 30, 50, 100, 20-0-20, 30-0-30, 50-0-50, 100-0-100 amp with external shunt (see below). Case: circular, plastic, dust- and spray-proof, diameter 60 mm, face of instrument 63 x 63 mm for flush mounting (angle brackets with holes for fastening to panel); 63 mm diameter for surface mounting. Depth of instrument 50 mm, including terminals. Weight 0.18 kg without shield and 0.2 kg with shield.

- 1 -

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M-2 (M-41, M-42, M-43, M-44). Ammeters, moving-coil, stationary. For use in dc circuits. Accuracy Class 2.5. Types: for flush mounting -- M-41, unshielded, and M-42, shielded; for surface mounting -- M-43, unshielded, and M-44, shielded. Measuring range same as in type M-1 ammeters. Case: circular, plastic, dust- and spray-proof, diameter 80 mm, face of instrument 83 x 63 mm for flush mounting (angle brackets with holes for fastening to panel); 83 mm diameter for surface mounting. Depth of instrument: 53 mm for flush mounting and 55 mm for surface mounting including terminals. Weight 0.33 kg without shield and 0.37 kg with shield.

M-55/2. Ammeters, moving-coil, small (pocket). Portable, for use in dc circuits. Accuracy Class 2.5. Measuring range: 1.5, 3, 7.5, 1.5-0-1.5, 3-0-3, 7.5-0-7.5 amp. Width 60 mm, height 78 mm, depth 37.5. Weight 0.21 kg.

T-41. Ammeters, thermocouple. Stationary, for use in hf ac circuits. Accuracy Class 2.5. Maximum readings 0.5-50 amp. Instrument includes: moving-coil mechanism, contact thermoelement (with thermocouple) and connecting wire. Case: dust- and spray-proof; for flush assembly, dimensions same as for flush assembly of Type M-2 ammeters. Weight of meter 0.33 kg, of thermoelement 0.1 kg up to 10 amp and 0.37 kg over 10 amp.

T-43. Ammeters, thermocouple. Technical data and weight same as for Type T-41 ammeters. Dimensions of meter same as for Type M-2 ammeters (for surface mounting, see above).

T-51. Ammeters, thermocouple. Technical data same as for Type T-41 ammeters, but maximum readings are 0.5-10 amp. Dimensions of meter same as for Type M-1 ammeters for flush mounting. Weight of meter 0.18 kg, of contact thermoelement 0.1 kg.

T-53. Ammeters, thermocouple. Technical data same as for Type T-51 ammeters. Dimensions of meters same as for Type M-1 ammeters (for surface mounting, see above).

M-1 (M-51, M-52, M-53, M-54). Milliammeters, moving-coil, small. Technical data, dimensions and weight same as for Type M-1 ammeters but maximum readings are: 1, 5, 10, 50, 100, 500, 1-0-1, 5-0-5, 10-0-10, 50-0-50, 100-0-100, 500-0-500 ma.

M-2 (M-41, M-42, M-43, M-44). Milliammeters, moving-coil. Technical data, dimensions and weight same as for Type M-2 ammeters but maximum readings correspond to those for Type M-1 milliammeters.

M-424. Milliammeters, differential. For use in dc circuits. Measuring range 60-0-60 ma. Weight 0.8 kg.

M-49. Microammeters, moving-coil, stationary. For use in dc circuits. Accuracy Class 2.5. Maximum readings: 200, 300 and 500 μ a. Dimensions same as for Type M-2 ammeters for flush mounting. Weight 0.3 kg. Mounted on iron panels.

M-494. Microammeters, moving-coil. Technical data, dimensions and weight same as for Type M-49 microammeters, but maximum readings are 50 and 100 μ a.

M-552. Microammeters, moving-coil, small. Technical data same as for Type M-49 microammeters. Dimensions same as for Type M-1 ammeters. Weight 0.18 kg.

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- 2 -