MTC2 R7 Automatic Winding Analyser

Autotest

automatic stator, motor testing

fully automatic fault analysis

Surge.voltage

6, 12, 15, 25, 30, 40 and 50 kV

rise time 100 – 500 ns in accordance with IEEE std 522-2004 (depending on the device under test)

optional pulse frequency up to 50 Hz supported (depending on test voltage)

automatic and manual surge voltage test

1-, 2- and 3-phase

automatic evaluation

4 different evaluation methods incl. correlation (SCHLEICH patent)

optional armature booster for testing DC armatures

High.voltage.DC

6, 12, 15, 25, 30, 40 and 50 kV

manually, individually adjustable

Auto programmable

Step voltage measurement

Insulation.resistance.DC

6, 12, 15, 25, 30, 40 and 50 kV

in accordance with VDE 0701

1 MΩ – 100 GΩ

optional custom measuring range up to 1 teraohm

Temperature compensation of the insulation resistance to 40 °C


PI.(Polarisation.Index).and.DAR.(Dielectric.Absorption.Ratio)

6, 12, 15, 25, 30, 40 and 50 kV

automatic measurement


Partial.discharge.surge.(optional)

6, 12, 15 and 25 kV

in accordance with DIN EN 60034-18:2014

measurement of

PDIV – partial discharge inception voltage

RPDIV – repetitive partial discharge inception voltage

RPDEV – repetitive partial discharge extinction voltage

PDEV – partial discharge extinction voltage

Measurement via antenna – ideal for stators

Measurement via coupler in the test line – ideal for motors


Resistance

1-, 2- and 3-phase

1 mΩ – 1 MΩ

Determine resistance unbalance between the 3 phases

High-precision four-wire measurement

Room temperature compensation of the temperature-dependent Cu or Al resistors referred to 20 °C or 25 °C


High.voltage.AC.(optional)

up to 6 kV, 100 mA

1-, 2- and 3-phase

Connections

4 + 1 | 4 x Winding connections plus 1 x stator/motor housing

8 + 1 | 8 x Winding connections plus 1 x stator/motor housing (optional)


Automation

digital I/Os, (inputs/outputs 24 V to PLC)

Communication interfaces (optional)

RS232 via SCHLEICH communication protocol

LAN via SCHLEICH communication protocol

LAN via TCP/IP

EtherCat

ProfiNet

custom solutions ...


Database

MongoDB / PostgreSQL

MS-SQL (optional)


Test.plans

Local storage

Network storage

Test plan/test parameter setting by a PC or other control system

and more ...


Test.results

Local storage

Network storage

Transmission to a PC or other controller

Transmission to an MES

Transmission to a CAQ system

Transmission to SAP®

and more ...

Access.control

Power switch with key

Password protection

built-in user management

Power.supply

Suitable for worldwide use: voltage range 100 – 250 V, 47 – 63 Hz

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