

Basic Function – Connection of two short-circuit and earth fault indicators and recording of station signals
Plastic housing with integrated terminal strip – housing size: 300 x 300 x 209 mm (WxHxD)
Connection of short-circuit and earth fault indicators via Modbus RTU
6 digital inputs 24 V DC
2 digital outputs (2 x changeover contacts) 24 V DC, 1 A
2 analog inputs ± 25 mA, 16 Bit
Voltage supply 24 V DC (± 10 %)
including prepared standard parameterization which can be adapted by the customer if required
Note: Ambient conditions -20...65 °C, rel. air humidity <95 % (non-condensing)*
Extension A – Control and checkback signal from two m.v. switch disconnectors
4 digital inputs 24 V DC
4 digital outputs (4 x closer) 24 V DC, 4 A
Extension B – Measurement of l.v. injection (3-phase)
4 current inputs, TRMS, sampling frequency 8 kHz, accuracy ± 0.2 % 0...1/5 A, overload max. 25 A (1 s), resolution 1 mA
3 voltage inputs, TRMS, sampling frequency 8 kHz, accuracy ± 0.2 % 0...100 / 230 V AC ULN, resolution 0.01 V
Frequency measurement 45...65 Hz, accuracy ± 0.1 %, resolution 0.01 Hz
Calculated values ULL, reactive, active and apparent power, power factor, THD, accuracy ± 0.5 %
Extension C3 - Measurement of l.v. feeders (3 x 1-phase)
3 current inputs RMS, sampling frequency 6.4 kHz, accuracy ± 0.5 % (5...100 % In) 0...1/5 A, overload max. 40 A (0.5 s)
3 inputs for Rogowski coils, accuracy depending on which type of Rogowski coil is used
Note: Adapted housing size 450 x 300 x 209 mm (WxHxD)
Note: Adapted ambient conditions -10...55 °C, rel. air humidity <90 % (non-condensing)*
Extension C6 - Measurement of l.v. feeders (6 x 1-phase)
Note: Not available in connection with Extensions C3 or C9
Extension C9 - Measurement of l.v. feeders (9 x 1-phase)
Note: Not available in connection with Extensions C3 or C6
Supplement 1 – Mobile Radio Controller 2/4G (GSM/LTE) Type : IDS CM33A
Including magnetic base antenna, line length 3m
Note: When using an outdoor antenna, the customer must provide suitable lightning protection
Note: Not in connection with Supplement 2
Supplement 2 – SHDSL Modem Type: Kapsch MF-PAM-RAIL2N-2Eth-24 VV1 (extended temperature range)
Note: Not in connection with Supplement 1
Note: Configuration of the modem to be done by customer or as part of separately quoted services
Supplement 5 – Injection of 230 V AC with voltage backup
Voltage supply 115 ... 230 V AC (± 15 %)
Voltage backup approx. 60 s (max. configuration)
Note: Adapted housing size 450 x 300 x 209 mm (WxHxD)
Note: Adapted ambient conditions -20...50 °C, rel. air humidity <95 % (non-condensing)*
Note: Not in connection with Supplement 6
Supplement 6 – Injection of 230 V AC without voltage backup
Voltage supply 100...240 V AC
Note: Adapted housing size 450 x 300 x 209 mm (WxHxD)
Note: Not in connection with Supplement 5
Special design
Without housing (delivered completely wired on mounting plate)
Individual housing size
Customer-specific solution
Accessories
Rogowski coil type MFC190, 333 mV/ 1 kA/ 50 Hz, accuracy < 1 %, 10 % without calibration
Coil length 30 cm, connection length 6 m

* The indicated permissible ambient conditions are given here in a simplified version and shall only serve for orientation purposes. A detailed calculation of individual configurations can be provided upon request.