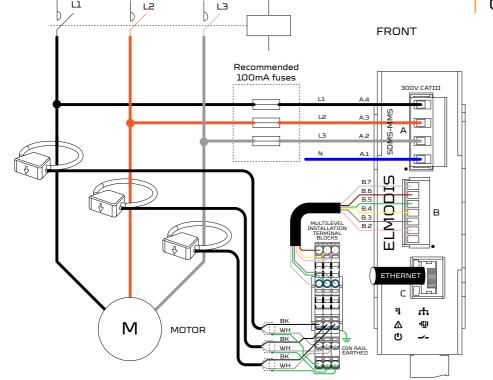
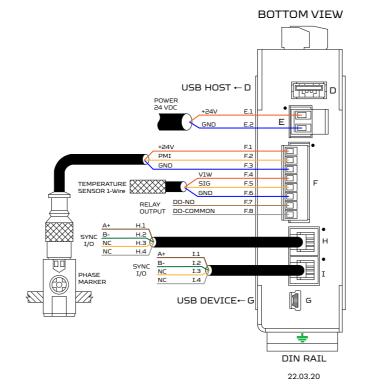
CONNECTION DIAGRAM







SDMS-MMS Electro Module

Quick Reference Guide

ELMODIS Sp. z o.o. www.elmodis.com

Aleja Pokoju 1 31-548 Kraków. Poland elmodis@elmodis.com tel. +48 531 507 668 The SDMS-MMS device is part of the Elmodis system for monitoring of machines driven by induction electric motors. The device provides measurement of AC electrical parameters: current and voltage and optionally RPM/shaft angle of the monitored machine. Measured. collected, processed raw values and KPIs are sent to the cloud/host environment. The SDMS-MMS has an Ethernet TCP/IP interface used for local data distribution and sharing informations to the Elmodis cloud based app.

MAIN FEATURES

- Direct connection of motor supply voltage measurement (3 phases)
- Motor current measurement connection via Rogowski coils transducers (3 phases)
- Connection of rotation sensor signal (inductive or photoelectric sensor)
- Input/output for synchronizing measurements with other modules
- Ethernet interface
- Support for MOTT and MODBUS TCP/IP protocol
- Two-state output (relay)
- Power supply 24 VDC
- DIN rail mounting

SAFETY



Installation can be performed only by qualified personnel.

Symbol Status Description

-(3)

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CASING

BACK-LIGHT

Failure-free operation

Service required - contact

Elmodis customer service

Stable communication

of the system

with the Cloud

No Internet access

Correct operation

of the key phasor

Key phasor high

Communication

Machine OK

No communication

Module identification

Machine-related alarm

by sensors

measurements

Collecting electrical

No electrical measurements

Temperature measurement

No response from a sensor

Before starting installation work, read the installation and commissioning manual of the ELMODIS system. Before starting installation work, it is strictly required to turn off the electrical power supply in the switchgear of the machine at which the Elmodis system is installed. Not complying with the above requirement may result in an electric shock dangerous to humans. During installation, take special care not to damage existing equipment or interrupt its operation.



The symbol designating selective collection of electronic equipment. It is forbidden to dispose used equipment with other waste.

OPERATION



TECHNICAL DATA

Measurement categoru: 300V CATIII Nominal Three-phase four-wire systems (U,N/U,1): 277/480V Three-phase three-wire systems unearthed (U,): 480V measurement voltage: 3.5 kA (RMS) for coils with sensitivity 100mV/kA @ 50Hz Measurement 3 kA (RMS) for coils with sensitivity 120mV/kA @ 60Hz current range: 1.5% per measurement range Accuracy: Temperature up to 8 1-WIRE sensors (DS18B20+ standard) measurement: Relay output (SELV): 1 A / 30 VDC (resistive) NPN/PNP sensors support Phase marker: Power supply (SELV): 24 VDC Power consumption: < 6 W Ethernet: 10/100 Mbit Operating temperature: -20 ÷ 50 [°C] -20 ÷ 70 [°C] Storage temperature: Operating humidity range: 5% to 90% without condensation Pollution dearee: Maximum altitude: 2000 m Mounting method: TH 35 rail (acc. to PN-EN 60715 standard) 37 x 115 x 125 [mm] Dimensions: Weight: 0.3 kg

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