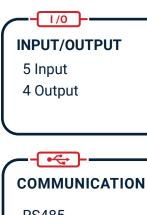
CPM 311 DIGITAL MULTIFUNCTION MODULAR TYPE CURRENT PROTECTION RELAY

CPM 311 is the digital Overcurrent relay that is designed with 50 years of experience in the relay sector and strong cooperation with our clients. It is widely implemented in Smart Grid and Substation Automation System, therefore it provides us easy-to-use advanced solutions of high protection, control and measurement application for the HV and MV system.

FUNCTION	ANSI CODE	CPM 311
Phase Overcurrent	50/51 P	3 thresholds
Earth Overcurrent	50/51N	3 thresholds
Negative Sequence Overcurrent Protection	46	2 thresholds
Undercurrent Protection	37	1 thresholds
Thermal Overload Protection	49	2 thresholds
Automatic reclosing	79	4 shot
Broken Conductor Detection	46BC	
Breaker Failure Settings	50BF	
Cold Load Pickup	CLPU-50/50N	
Latching	86	
Trip Circuit Supervision	74TCS	
Blocking Relay	68	
Inrush Current Detection	68	

MEASUREMENTS/RECORDS

RMS Current Measurement Max Rms Current Meas. Fundemental Current Meas. P/N Sequences Current Meas. Thermal (θ) Measurements Circuit Breaker Monitoring Automatic reclosing Meas. Event Records Fault Records Alarm Records Comtrade Waveform Records



RS485 - MODBUS RTU - IEC60870-5-103 USB (front port)



SPECIFICATIONS

- Wide range IEC, ANSI and Special curves
- 8 Programmable Virtual Led
- 9 INFO LED
- Visualisation of activated functions on main screen (2 Group)
- Function Test without using Relay Test Set
- Visibility of R-S-T-N currents from 1,5 -2 m distance thanks to the large LCD Screen (128 x 64 px)
- 1-5 A Current transformer flexibility in usage
- Blocking Selectivity by delaying previous breaker
- Electro-magnetic compatibility tested for IEC directives,
- Temperature/Buchholz/Pressure
 Protection
- Remote or local Alarm-Reset
- SCADA ready
- Displaying Alarm and Fault Records with one click
- Circuit Breaker trip/close
- IP52 and IP20 protection for front and rear panel respectively
 CERTIFICATES
 - ISO 9001:2015 45001:2018 14001:2015



CPM 311 DIGITAL MULTIFUNCTION MODULAR TYPE CURRENT PROTECTION RELAY

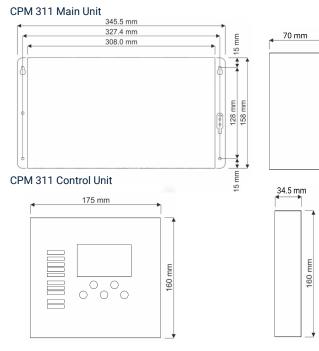


With its separated structure, CPM 311 eliminates the necessity of keeping current, supply, command and control cables on the panel cover. CPM 311, provides great ease of installation by connecting with a single cable between the main unit and the control unit.

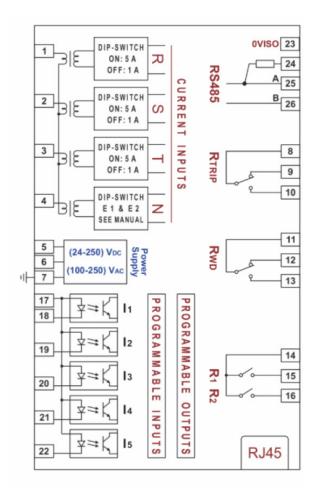
TECHNICAL SPECIFICATIONS

Nominal Auxiliary Voltage	(24-240) V _{DC} / (48-240) V _{AC}	
Auxiliary Voltage Variation	(21-275) V _{DC} / (80-275) V _{AC}	
Burden of Auxiliary	Max. 8 W / 15 VA	
Secondary Current Inputs	(1/5)A, 3 Phase / 1 Earth	
Secondary Burden	I _n : 1A if 0.01VA, I _n : 5A if 0.2 VA	
Phase / Earth Measurement Tech.	Fundamental harmonics	
Thermal Measurement Technique	RMS Current	
Programmable Inputs Quantity	5 inputs, opto isolation	
Programmable Outputs Quantity	4 outputs	
Language Options	English / Turkish	
Communications Baudrate	Max 38,400 baud	
Drop-out Time	40 ms	
Storage & Operation Ambient Temp.	-25°C / +70 °C	
Weight	3.5 kg net	

CPM 311 DIMENSIONS

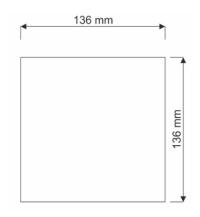


CPM 311 CIRCUIT DIAGRAM





PANEL CUTTING DIMENSIONS



DEMA RELAY INDUSTRY INC.

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