

# Product data sheet

Specifications



## Protection relay, MiCOM P116, dual power, In 1A, Ion 1A, 0.10-40 Ion, Vx 60-240VAC/60-250VDC

REL10232

! To be discontinued

! To be discontinued on: Dec 31, 2024

! To be end-of-service on: Dec 31, 2033

### Main

|                             |                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range Of Product            | MiCOM P11x                                                                                                                                                                                                                                                                                                                                                                                  |
| Device Short Name           | P116                                                                                                                                                                                                                                                                                                                                                                                        |
| Product Or Component Type   | Protection relay                                                                                                                                                                                                                                                                                                                                                                            |
| Relay Application           | Feeder                                                                                                                                                                                                                                                                                                                                                                                      |
| Protection Type             | ANSI 79 : recloser<br>ANSI 86 : lockout<br>ANSI 49RMS : thermal overload protection<br>ANSI 37 : phase undercurrent<br>ANSI 50N/51N : earth fault<br>ANSI 50BF : breaker failure<br>ANSI 50/51 : phase overcurrent<br>ANSI 46 : negative sequence/unbalance<br>ANSI 46BC : broken conductor<br>Cold load pick-up<br>Switch ON to fault (SOTF)<br>Logic selectivity<br>2nd harmonic blocking |
| Input Output Max Capacity   | 6 inputs + 7 outputs                                                                                                                                                                                                                                                                                                                                                                        |
| Communication Port Protocol | Modbus RTU<br>IEC 60870-5-103                                                                                                                                                                                                                                                                                                                                                               |

### Complementary

|                                    |                                                             |
|------------------------------------|-------------------------------------------------------------|
| Type Of Measurement                | Current                                                     |
| Supply                             | Via current transformer<br>Auxiliary power supply           |
| Input Current                      | 1 A                                                         |
| Auxiliary Supply                   | 60...240 V AC<br>60...250 V DC                              |
| [Ue] Rated Operational Voltage     | 48...264 V AC<br>48...300 V DC                              |
| Control And Monitoring Type        | Latching/acknowledgement<br>Switching of groups of settings |
| Monitoring Function                | Circuit breaker monitoring                                  |
| Metering Type                      | Phase currents<br>Residual current IO                       |
| Network And Machine Diagnosis Type | Fault recording<br>Event recording<br>Self diagnostic       |
| Switchgear Diagnosis Type          | Trip circuit supervision                                    |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                            |                                                                                              |
|----------------------------|----------------------------------------------------------------------------------------------|
| Display Type               | LCD display: 2 lines of 16 characters ASCII (European characters) and 9 key                  |
| Discrete Input Voltage     | 24...240 V AC standard variant<br>24...250 V DC standard variant                             |
| Earth Current Inputs       | 1 A 0.1...40 Ion                                                                             |
| Curves                     | IDMTL conforming to IEC<br>IDMTL conforming to ANSI/IEEE<br>RI type IDMTL<br>RECT type IDMTL |
| Communication Port Support | RS485<br>USB                                                                                 |

## Environment

|                 |       |
|-----------------|-------|
| Device Mounting | Flush |
|-----------------|-------|

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type Of Package 1       | PCE     |
| Number Of Units In Package 1 | 1       |
| Package 1 Height             | 21.8 cm |
| Package 1 Width              | 15.8 cm |
| Package 1 Length             | 25.6 cm |
| Package 1 Weight             | 2.75 kg |