

Breaker Management SIPROTEC 7VK61

Product description Variants Order No.

Breaker Management Device

Circuit-breaker
failure protection
Auto-reclosure
Synchro-check

Device type / Number of inputs and outputs

BI: Binary inputs, BO: Binary outputs

Housing 1/3 x 19", 7 BI, 5 BO plus 1 Life contact

Housing 1/2 x 19", 20 BI, 18 BO plus 1 Life contact

Measured current inputs (4 x U, 4 x I)

$I_{ph} = 1^\circ, I_e = 1^\circ$ (min.=0.05 A) ¹⁾

$I_{ph} = 5A, I_e = 1A$ (min.=0.25 A) ¹⁾

Auxiliary voltage (power supply, threshold of binary inputs)

DC 24 V to 48 V, binary input threshold 19 V ²⁾

DC 60 V to 125 V ²⁾, binary input threshold 19 V ²⁾

DC 110 V to 250 V ²⁾, 115 to AC 230 V, binary input threshold 88 V ²⁾

DC 220 V to 250 V ²⁾, 115 to AC 230 V, binary input threshold 176 V ²⁾

Housing

Flush mounting

Surface mounting

Region specific default/ language settings and function versions

Region GE, language German, changeable

Region World, language English, changeable

Region US, language US-English, changeable

Region FR, language French, changeable

Region World, language Spanish, changeable

Region World, language Italian, changeable

Port B

Not installed

System port, IEC 60870-5-103 protocol, electric RS232

System port, IEC 60870-5-103 protocol, electrical RS485

System port, IEC 60870-5-103 protocol, optical 820 nm, ST-connector

Further protocols see supplement L

System port, PROFIBUS DP Slave, RS485

System port, PROFIBUS DP Slave, optical 820 nm, double ring,
ST-connector ³⁾

System port, DNP3.0, RS485

System port, DNP3.0, optical 820 nm, ST-connector ³⁾

IEC 61850, 100 Mbit Ethernet, electrical, double, RJ45-connector

IEC 61850, 100 Mbit Ethernet, with integrated switch

optical, double, LC-connector ⁴⁾

Port C

DIGSI / Modem, electric RS232

DIGSI / Modem, electrical RS485

Functions

| Breaker-failure protection 1-/3-pole or 3-pole only | Automatic-reclosure 1-/3-pole or 3-pole only and synchro-check | Over-/Undervoltage Protection V>, V< |
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Short code

7 V K 6 1 □ □ - □ □ □ □ □ □ - 4 Y □ 0 □ □ □ □

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Protection
SIPROTEC 4

1) Rated current 1/5 A can be selected by means of jumpers
2) The binary input thresholds are selectable in 3 steps by means of jumpers
3) Optical interface is not available with Surface-mounting housings (position 9 of order no. E). Please order the version with RS485 interface and a separate electric/optical converter.
4) If position 9="E" (Surface-mounting housing), please order the relay with electrical ethernet interface and use a separate fiber-optic switch.