CPU with power supply; input/output-modules with: 35 single indications 22 single pole single commands (can be summarized to double pole commands and double commands), 3 grouped single commands, 1 life contact-contact, usable as normally open or normally closed contacts (choosable via plug-in bridge) $3 x$ current, $4 x$ voltage via direct voltage/current transformer inputs 2 measurement transformer inputs ( 20 mA )
Current transformer $\mathrm{In}_{n}$
1 A
1 A/ 150\% IN
$1 \mathrm{~A} / 200 \% \mathrm{I}_{\mathrm{N}}$
5 A
$5 \mathrm{~A} / 150 \% \mathrm{I}_{\mathrm{N}}$
$5 \mathrm{~A} / 200 \% \mathrm{I}_{\mathrm{N}}$
Auxiliary voltage (power supply, indication voltage)
DC 24 V to 48 V , threshold binary input $19 \mathrm{~V}{ }^{2)}$
DC 60 V , threshold binary input $19 \mathrm{~V}{ }^{2)}$
DC 110 V , threshold binary input $88 \mathrm{~V}{ }^{2)}$
DC 220 V to 250 V , threshold binary input 176 V 2)
Construction
Flush-mounting housing, with HMI, plug-in terminal (2/3-pole AMP sockets)
Flush-mounting housing, with HMI, screw-type terminal (direct wiring / ring lugs)
Region-specific default settings/ function versions and language settings
Region DE, 50 Hz , language German (language changeable)
Region World, $50 / 60 \mathrm{~Hz}$, language English (language changeable)
Region USA (ANSI) 60 Hz , language US-English (language changeable)
Region World, $50 / 60 \mathrm{~Hz}$, language French (language changeable)
Region World, $50 / 60 \mathrm{~Hz}$, language Spanish (language changeable)
System port on rear (port B)
No system port
IEC 60870-5-103 Protocol, electrical RS485
IEC 60870-5-103 Protocol, optical 820 nm , ST-connector
Further protocols see supplement L
PROFIBUS DP slave, electrical RS485
PROFIBUS DP slave, 820 nm fibre, double loop, ST plug
PROFIBUS DP slave, double, electrical RS485 (second module on port D)
IEC 61850, 100 Mbit Ethernet electric, double RJ45-Connector


IEC 61850, 100 Mbit Ethernet optical, double LC-Connector
with integrated switch
Function port on rear
no function port
DIGSI 4, RS232, port C
DIGSI 4, RS485, or plug on measurement box, port C
measurement box on port $C$ and DIGSI $4,820 \mathrm{~nm}$ fibre, ST plug, port $D{ }^{1)}$
with RS485 interface for bay bus communication, port C
with RS485 interface for bay bus communication, port C
and DIGSI 4820 nm fibre, ST plug, port D ${ }^{1)}$
Measurement Processing
with full measurement-processing and-display
no measurement processing, no measurement display ${ }^{3)}$
Synchronization
with Synchronization
without Synchronization
Protection functions
without
with automatic reclosure, incl. disturbance recorder
with breaker failure, incl. disturbance recorder
with automatic reclosure and breaker failure, incl. disturbance recorder

L 0 B
L 1 A
L 0 R
L 0 S

