



Figure similar

motor protection for low-power current transformer, enclosure 1/6 19", 4 x I, 3 x V, 3 BI, 5 BO (2 change-over contacts), 1 live contact, 5 temperature sensors, low-power current transformer input, rated auxiliary power: 24 - 48 V DC, installation enclosure, screw terminals region world, IEC / ANSI, language English (can be changed), front membrane standard, system interface port B (device underside, rear) PROFIBUS DP slave, electrical RS485 without system interface Port A, measurement: fault recording, mean value formation, min./max. values, functionality: basic version(*)

Product details	
number of function keys	9
number of LEDs	8
Product Functions	
type of measured value detection / of operational measured value / standard	Yes
type of measured value detection / expanded / min./max. values, mean values	Yes
switching statistics	Yes
product feature / logic editor	Yes
control	Yes
fault recording for analog and digital signals	Yes
monitoring	Yes
number of parameter sets	4
parameter set switchover	Yes
Protection Functions	
three-pole tripping	Yes
with blocked rotor (ANSI 14)	Yes
undervoltage protection (ANSI 27)	Yes
directional power monitoring (ANSI 32)	Yes
undercurrent protection (ANSI 37)	Yes
temperature monitoring (ANSI 38)	Yes
unbalance protection (ANSI 46)	Yes
overcurrent-time protection negative sequence system (ANSI 46)	Yes
phase-rotation supervision (ANSI 47)	Yes
overvoltage protection negative-sequence system (ANSI 47)	Yes
blocked rotor monitoring (ANSI 48)	Yes
thermal overload protection (ANSI 49)	Yes
definite overcurrent-time protection (ANSI 50/50N)	Yes
Switch On To Fault (ANSI SOTF)	Yes
sensitive ground current protection (ANSI 50Ns)	No
circuit breaker failure protection (ANSI 50BF)	Yes
load step protection (ANSI 50L)	Yes
dependent overcurrent-time protection (ANSI 51/51N)	Yes
dynamic response value changeover (ANSI 51C)	Yes
power factor (ANSI 55)	Yes
overvoltage protection (ANSI 59)	Yes

overvoltage protection zero-sequence system (ANSI 59N)	Yes
measuring voltage failure detection (ANSI 60FL)	Yes
reclosing lockout (ANSI 66)	Yes
directional ground fault protection (ANSI 67N)	Yes
directional sensitive ground-fault detection for resonant-grounded systems and isolated systems (ANSI 67Ns)	Yes
trip-circuit supervision (ANSI 74TC)	Yes
frequency protection (ANSI 81)	Yes
frequency variation protection (ANSI 81R)	Yes
closing lock-out (ANSI 86)	Yes
inrush current detection	Yes
external trip initiation	Yes

Supply voltage

supply voltage / at DC	24 ... 48 V
type of voltage / of the supply voltage	DC

Inputs / Outputs

number of digital inputs / maximum	3
number of internal RTD inputs / maximum	5
number of digital outputs / incl. signaling contact / maximum	6
number of low-power current transformer inputs	4
number of low-power voltage transformer inputs	3
product component / with RTD unit connection	No
product component / with 20 mA module connection	Yes

Communication

product component / operating interface (on the front)	Yes
software interface version / DIGSI with USB-A port	USB
protocol / is supported / IEC 60870-5-103	No
protocol / is supported / IEC 61850-8-1	No
protocol / is supported / Modbus RTU slave	No
protocol / is supported / DNP 3, serial	No
protocol / is supported / PROFIBUS DP slave	Yes
protocol / is supported / PRP	No
protocol / is supported / RSTP	No
protocol / is supported / HSR	No
product function / supports further Ethernet services on Ethernet modules	No

Time synchronization

type of time synchronization	Profibus, pulse via binary input
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Mechanical Design

width	74 mm
height	265.5 mm
depth	228.8 mm
design of the display	Text display: 6 rows
product feature / plug-in terminal blocks	Yes

Environmental conditions

ambient temperature / during operation / maximum	55 °C
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Further information

Information- and Downloadcenter (catalogues, leaflets,...)

<http://www.siemens.com/energy-automation>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=7SK8163-1EB90-3HE0 L0A>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/7SK8163-1EB90-3HE0 L0A>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7SK8163-1EB90-3HE0 L0A

Tender specifications

<http://www.siemens.com/specifications>

