



Figure similar

voltage and frequency relay, enclosure 1/6 19", 3 x V, 3 BI, 5 BO (2 change-over contacts), 1 live contact, rated auxiliary power: 60 to 250 V DC, 115 V AC, 230 V AC installation enclosure, screw terminals, region world, IEC / ANSI language English (can be changed), front membrane standard, system interface port B (device underside, rear) Modbus, electrical RS485 without system interface, port A, measurement: fault recording, mean value formation, min./max. values, functionality: voltage and frequency protection and synchro check

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
overexcitation protection (ANSI 24)	No
synchrocheck (ANSI 25)	Yes
undervoltage protection (ANSI 27)	Yes
phase-rotation supervision (ANSI 47)	Yes
overvoltage protection negative-sequence system (ANSI 47)	Yes
Switch On To Fault (ANSI SOTF)	No
overvoltage protection (ANSI 59)	Yes
voltage variation protection (ANSI 59R/27R)	Yes
overvoltage protection zero-sequence system (ANSI 59N)	No
trip-circuit supervision (ANSI 74TC)	Yes
frequency protection (ANSI 81)	Yes
frequency variation protection (ANSI 81R)	Yes
vector step protection	No
load connection (ANSI 81LR)	No
closing lock-out (ANSI 86)	Yes
external trip initiation	Yes
Supply voltage	
supply voltage / at AC	115 ... 230 V
supply voltage / at DC	60 ... 250 V
type of voltage / of the supply voltage	AC/DC
Inputs / Outputs	
number of digital inputs / maximum	3

number of digital outputs / incl. signaling contact / maximum	6
number of voltage inputs / maximum	3
Communication	
product component / operating interface (on the front)	Yes
software interface version / DIGSI with USB-A port	yes
protocol / is supported / IEC 60870-5-103	No
protocol / is supported / IEC 61850-8-1	No
protocol / is supported / Modbus RTU slave	Yes
protocol / is supported / DNP 3, serial	No
protocol / is supported / PROFIBUS DP slave	No
protocol / is supported / PRP	No
protocol / is supported / RSTP	No
product function / supports further Ethernet services on Ethernet modules	No
Time synchronization	
type of time synchronization	Modbus, pulse via binary input
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
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=7RW8010-5EB90-1DC0 L0D	
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/7RW8010-5EB90-1DC0 L0D	
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7RW8010-5EB90-1DC0 L0D	
Tender specifications http://www.siemens.com/specifications	

