



Figure similar

voltage and frequency relay, enclosure 1/6 19", 3 x V, 7 BI, 8 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	7
number of digital outputs / incl. signaling contact / maximum	9
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
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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=7RW8020-5EB90-1DC0 L0D>

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

<https://support.industry.siemens.com/cs/ww/en/ps/7RW8020-5EB90-1DC0 L0D>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=7RW8020-5EB90-1DC0 L0D](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7RW8020-5EB90-1DC0 L0D)

**Tender specifications**

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

