



Figure similar

Motor protection 7SR57, 4 curr. trans., 13 BI, 8 BO (incl. 4 HDBO (Heavy Duty)),
Standard interface: 1 x USB (front), RS 485 (rear) + 2 x optical LC-interface, S6
enclosure

Product details

product feature / conformal coating	No
number of function keys	7
number of LEDs	28

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
circuit breaker monitoring	Yes
product feature / logic editor	Yes
control	Yes
fault recording for analog and digital signals	Yes
sequence-of-events recorder	Yes
monitoring	Yes
number of parameter sets	4
parameter set switchover	Yes
circuit breaker test	Yes

Protection Functions

three-pole tripping	Yes
with blocked rotor (ANSI 14)	Yes
undervoltage protection (ANSI 27)	No
undervoltage protection (ANSI 27) / 3-phase	No
directional power monitoring (ANSI 32)	No
undercurrent protection (ANSI 37)	Yes
temperature monitoring (ANSI 38)	No
unbalance protection (ANSI 46)	Yes
overcurrent-time protection negative sequence system (ANSI 46)	Yes
phase-rotation supervision (ANSI 47)	No
blocked rotor monitoring (ANSI 48)	Yes
thermal overload protection (ANSI 49)	Yes
definite overcurrent-time protection (ANSI 50/50N)	Yes
arc protection (ANSI AFD)	No
sensitive ground current protection (ANSI 50Ns)	No
circuit breaker failure protection (ANSI 50BF)	Yes
load step protection (ANSI 50L)	No
dependent overcurrent-time protection (ANSI 51/51N)	Yes

power factor (ANSI 55)	No
overvoltage protection (ANSI 59)	No
overvoltage protection zero-sequence system (ANSI 59N)	No
grounding protection (machine) (ANSI 64)	No
reclosing lockout (ANSI 66)	Yes
directional overcurrent-time protection, phases (ANSI 67)	No
directional ground fault protection (ANSI 67N)	No
directional sensitive ground-fault detection for resonant-grounded systems and isolated systems (ANSI 67Ns)	No
trip-circuit supervision (ANSI 74TC)	Yes
frequency protection (ANSI 81)	No
closing lock-out (ANSI 86)	Yes
protection function / high-impedance ground fault differential protection (ANSI 87N)	Yes
protection function / differential protection, motor (ANSI 87M)	No
external trip initiation	Yes

Supply voltage

supply voltage / at AC	100 ... 230 V
supply voltage / at DC	24 ... 250 V
type of voltage / of the supply voltage	AC/DC

Inputs / Outputs

number of digital inputs / maximum	13
number of digital outputs / incl. signaling contact / maximum	8
number of voltage inputs / maximum	0
number of current inputs / maximum	4
product component / with RTD unit connection	Yes

Communication

type of electrical connection / of the communication interface	1x USB (front), 1x RS485, 2x RJ45
product component / operating interface (on the front)	Yes
protocol / is supported / Modbus TCP	Yes
protocol / is supported / SNMP v3	Yes
protocol / is supported / IEC 60870-5-103	Yes
protocol / is supported / IEC 61850-8-1	Yes
protocol / is supported / Modbus RTU device	Yes
protocol / is supported / DNP 3, serial	Yes
protocol / is supported / DNP 3.0 TCP as server	Yes
protocol / is supported / PRP	Yes
protocol / is supported / RSTP	Yes
protocol / is supported / HSR	Yes

Time synchronization

type of time synchronization	Data comms or Digital input
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Mechanical Design

width	153 mm
height	177 mm
depth	217.5 mm
frame size of enclosure	S6
product function / hardware configuration expandable	No
design of the display	LCD

Environmental conditions

ambient temperature / during operation	-10 ... +55 °C
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Further information

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=7SR5710-2BA21-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/7SR5710-2BA21-0AA0>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7SR5710-2BA21-0AA0

Tender specifications

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

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