

Motor prot. 7SR57 8 curr. trans., 4 volt. trans., 3 AFD (Arc Flash Detector), 16 TSI (Temperature Sensor Input), 27 BI, 17 BO (incl. 3 HSBO), Standard interface: 1 x USB (front), RS 485 (rear) + 2 x RJ45 interfaces, S12 enclosure, including conformal coating



Figure similar

Product details

product feature / conformal coating	Yes
warranty period	5 a
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 control	Yes
fault recording for analog and digital signals	Yes
sequence-of-events recorder 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)	Yes
undervoltage protection (ANSI 27) / 3-phase	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
blocked rotor monitoring (ANSI 48)	Yes
thermal overload protection (ANSI 49)	Yes
definite overcurrent-time protection (ANSI 50/50N)	Yes
arc protection (ANSI AFD)	Yes
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)	Yes
overvoltage protection (ANSI 59)	Yes
overvoltage protection zero-sequence system (ANSI 59N)	Yes
grounding protection (machine) (ANSI 64)	No
reclosing lockout (ANSI 66)	Yes
directional overcurrent-time protection, phases (ANSI 67)	Yes
directional ground fault protection (ANSI 67N)	Yes
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)	Yes
closing lock-out (ANSI 86)	Yes
protection function / high-impedance ground fault differential protection (ANSI 87N)	Yes
protection function / differential protection, motor (ANSI 87M)	Yes
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	27
number of inputs / for temperature sensor	16
number of sensor inputs / for arc detectors	3
number of digital outputs / incl. signaling contact / maximum	17
number of fast digital outputs	3
number of voltage inputs / maximum	4
number of current inputs / maximum	8
product component / with RTD unit connection	Yes
Communication	
type of electrical connection / of the communication interface	1x USB (front), 1x RS485, 2x optical LC
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
Mechanical Design	
width	308 mm
height	177 mm
depth	217.5 mm
frame size of enclosure	S12
product function / hardware configuration expandable	No
design of the display	LCD
Environmental conditions	
ambient temperature / during operation	-10 ... +55 °C
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=7SR5721-4DD16-1AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/7SR5721-4DD16-1AA0>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7SR5721-4DD16-1AA0

Tender specifications

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

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