

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



Figure similar

| 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) | 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 digital outputs / incl. signaling contact / maximum | 17 |
| 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=7SR5721-4DD16-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/7SR5721-4DD16-0AA0>

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

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7SR5721-4DD16-0AA0

Tender specifications

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

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