



Figure similar

Motor prot. 7SR57 4 curr. trans., 18 BI , 10 BO (incl. 4 HDBO (Heavy Duty)),  
Standard interface: 1 x USB (front), RS 485 (rear) + 2 x optical LC ports, S8  
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                               |
| <b>Supply voltage</b>                                                                                       |                                   |
| supply voltage / at AC                                                                                      | 100 ... 230 V                     |
| supply voltage / at DC                                                                                      | 24 ... 250 V                      |
| type of voltage / of the supply voltage                                                                     | AC/DC                             |
| <b>Inputs / Outputs</b>                                                                                     |                                   |
| number of digital inputs / maximum                                                                          | 18                                |
| number of digital outputs / incl. signaling contact / maximum                                               | 10                                |
| number of voltage inputs / maximum                                                                          | 0                                 |
| number of current inputs / maximum                                                                          | 4                                 |
| product component / with RTD unit connection                                                                | Yes                               |
| <b>Communication</b>                                                                                        |                                   |
| 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                               |
| <b>Time synchronization</b>                                                                                 |                                   |
| type of time synchronization                                                                                | Data comms or Digital input       |
| <b>Mechanical Design</b>                                                                                    |                                   |
| width                                                                                                       | 205 mm                            |
| height                                                                                                      | 177 mm                            |
| depth                                                                                                       | 217.5 mm                          |
| frame size of enclosure                                                                                     | S8                                |
| product function / hardware configuration expandable                                                        | No                                |
| design of the display                                                                                       | LCD                               |
| <b>Environmental conditions</b>                                                                             |                                   |
| ambient temperature / during operation                                                                      | -10 ... +55 °C                    |
| <b>Further information</b>                                                                                  |                                   |

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## Tender specifications

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

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