



Figure similar

Solkor 7SR18 differential protection, E6 case size, 6 binary inputs, 8 binary outputs, 18 LEDs, measuring input: 4 CTs (1A/5A), 24-250 V DC, 100 - 230 V AC, binary input threshold 88 V DC, signal: optical fibre link (1300 nm) (LC connection) 40 km, communication interface: USB front, RS485 rear, IEC 60870-5-103 + Modbus RTU + DNP3 (user selectable), protection function packages: standard version

Product details

product feature / conformal coating	No
number of function keys	5
number of LEDs	19

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
sequence-of-events recorder	Yes
monitoring	Yes
number of parameter sets	4

Protection Functions

three-pole tripping	Yes
undercurrent protection (ANSI 37)	Yes
overcurrent-time protection negative sequence system (ANSI 46)	Yes
thermal overload protection (ANSI 49)	Yes
definite overcurrent-time protection (ANSI 50/50N)	Yes
Switch On To Fault (ANSI SOTF)	Yes
circuit breaker failure protection (ANSI 50BF)	Yes
dependent overcurrent-time protection (ANSI 51/51N)	Yes
dynamic response value changeover (ANSI 51C)	Yes
voltage-dependent overcurrent-time protection (ANSI 51V)	No
directional overcurrent-time protection, phases (ANSI 67)	No
directional ground fault protection (ANSI 67N)	No
trip-circuit supervision (ANSI 74TC)	Yes
automatic reclosing (ANSI 79)	No
closing lock-out (ANSI 86)	Yes
differential protection (ANSI 87)	Yes
inrush current detection	Yes
external trip initiation	Yes

Supply voltage

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

Inputs / Outputs

number of digital inputs / maximum	6
number of digital outputs / incl. signaling contact / maximum	8
number of voltage inputs / maximum	0
number of current inputs / maximum	4

Communication

product component / operating interface (on the front)	Yes
number of interfaces / according to RS 485	1
number of interfaces / according to Ethernet	0
product component / optical interface	Yes
product component / optical interface / note	40 km
protocol / is supported / IEC 61850	No
protocol / is supported / IEC 60870-5-103	Yes
protocol / is supported / Modbus RTU slave	Yes
protocol / is supported / DNP 3, serial	Yes
protocol / is supported / PRP	No
protocol / is supported / RSTP	No
protocol / is supported / HSR	No

Time synchronization

type of time synchronization	1sec/1min Pulse, Serial Comms
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Mechanical Design

width	155.5 mm
height	168 mm
depth	216.5 mm
frame size of enclosure	E6
design of the display	Text, 4 lines x 20 characters
product feature / plug-in terminal blocks	Yes

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,...)

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=7SR1813-1NC12-0CA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/7SR1813-1NC12-0CA0>

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

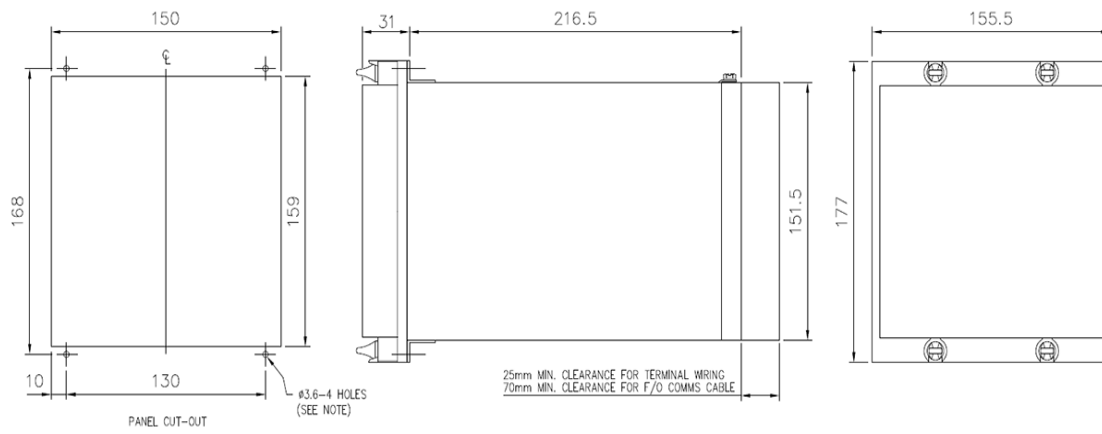
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7SR1813-1NC12-0CA0

Tender specifications

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

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



NOTE:
THE Ø3.6 HOLES ARE FOR M4 THREAD FORMING (TRILOBULAR) SCREWS.
THESE ARE SUPPLIED AS STANDARD AND ARE SUITABLE FOR USE IN
FERROUS/ALUMINIUM PANELS 1.6mm THICK AND ABOVE. FOR OTHER
PANELS, HOLES TO BE M4 CLEARANCE (TYPICALLY Ø4.5) AND RELAYS
MOUNTED USING M4 MACHINE SCREWS, NUTS AND LOCKWASHERS
(SUPPLIED IN PANEL FIXING KIT).

