## SIEMENS

## Data sheet

## 3RP1540-1AB31



Timing relay, electronic Phased-out product !!! For further information, please contact our sales department OFF delay 1 change-over contact, without auxiliary voltage 9 time ranges, 0.05 s...600 s 24 V AC/DC with LED, Screw terminal

product brand name         SIRUS           product designation         timing relay           product type designation         3RP15           Central technical data		
product type designation     3RP15       General tochnical data	product brand name	SIRIUS
General technical data       product component       • relay output       • emi-conductor output       No       product extension required remote control       No       power loss [W] maximum       2 W       insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value       test voltage for isolation test       degree of pollution       3       surge voltage resistance rated value       4 000 V       protect cass IP       IP20       shock resistance acc. to IEC 60068-2-27       11g / 15 ms       vibration resistance acc. to IEC 60068-2-26       10       100 000       electrical endurance (switching cycles) typical       100 000       electrical endurance (switching cycles) tat AC-15 at 230 V       typical       adjustable time       0.05 600 s       relative setting accuracy relating to full-scale value       5 %       relative repeat accuracy       150 ms       reference code acc. to IEC 81346-2       K       relative repeat accuracy       150 ms       reference code acc. to IEC 81346-2       K       relative repeat accuracy       150 ms       reference code acc. to IEC 81346-2<	product designation	timing relay
product component     • relay output     Yes       • semi-conductor output     No       product extension required remote control     No       power loss [W] maximum     2 W       insulation voltage for overvoltage category III according to     300 V       LEC 60664 with degree of pollution 3 rated value     2 kV       degree of pollution     3       surge voltage resistance rated value     4 000 V       protection class IP     IP20       shock resistance acc. to IEC 60068-2-27     11g / 15 ms       vibration resistance acc. to IEC 60068-2-27     11g / 15 ms       vibration resistance acc. to IEC 60068-2-27     10 55 Hz / 0.35 mm       mechanical service life (switching cycles) typical     100 000       electrical endurance (switching cycles) at AC-15 at 230 V     100 000       typical     0.05 600 s       relative setting accuracy relating to full-scale value     5 %       thermal current     5 A       minimum ON period     200 ms       reference code acc. to IEC 81346-2     K       relative repeat accuracy     1 %       influence of the surrounding temperature     45 %       power supply influence     41 %       substance Prohibitance (Date)     28.05.2009       Control supply voltage 1 at AC     24 V       • at 60 Hz rated value     24	product type designation	3RP15
• relay output     Yes       • semi-conductor output     No       product extension required remote control     No       product extension optional remote control     No       power loss [W] maximum     2 W       insulation voltage for overvoltage category III according to     300 V       IEC 60664 with degree of pollution 3 rated value     2 kV       degree of pollution     3       surge voltage resistance rated value     4 000 V       protection class IP     IP20       shock resistance acc. to IEC 60068-2-27     11g / 15 ms       vibration resistance acc. to IEC 60068-2-6     10       mechanical service life (switching cycles) typical     10 000 000       electrical endurance (switching cycles) typical     100 000       adjustable time     0.05 600 s       relative setting accuracy relating to full-scale value     5 %       thermal current     5 A       minimum ON period     200 ms       reference code acc. to IEC 81346-2     K       relative repeat accuracy     1%       influence of the surrounding temperature     45 %       Substance Prohibitance (Date)     28 05 2009       Control supply voltage 1 at AC     40 V       • at 60 Hz rated value     24 V       • at 60 Hz rated value     24 V       • at 60 Hz rated value     <	General technical data	
• semi-conductor output     No       product extension required remote control     No       product extension optional remote control     No       power loss [W] maximum     2 W       insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value     300 V       test voltage for isolation test     2 kV       degree of pollution     3       surge voltage resistance rated value     4 000 V       protection class IP     IP20       shock resistance acc. to IEC 60068-2-27     11g / 15 ms       vibration resistance acc. to IEC 60068-2-26     10 55 Hz / 0.35 mm       electrical endurance (switching cycles) typical     10 000 000       electrical endurance (switching cycles) typical     100 000       electrical endurance (switching cycles) typical     100 000       relative setting accuracy relating to full-scale value     5 %       thermal current     5 A       minimum ON period     200 ms       recovery time     150 ms       reference code acc. to IEC 81346-2     K       relative repeat accuracy     1 %       Substance Prohibitance (Date)     24 V       • at 50 Hz rated value     24 V       • at 60 Hz rated value     24 V	product component	
product extension required remote control       No         power loss (W) maximum       2 W         insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value       300 V         test voltage for isolation test       2 kV         degree of pollution       3         surge voltage resistance rated value       4 000 V         protection class IP       IP20         shock resistance acc. to IEC 60068-2-27       11g / 15 ms         vibration resistance acc. to IEC 60068-2-6       10 55 Hz / 0.35 mm         mechanical service Iife (switching cycles) typical       10 000 000         electrical endurance (switching cycles) typical       10 0000         vibration accuracy relating to full-scale value       5 %         relative setting accuracy relating to full-scale value       5 %         relative setting accuracy       10%         influence of the surrounding temperature       5 Å         minimum ON period       200 ms         reference code acc. to IEC 81346-2       K         relative repeat accuracy       1 %         Substance Prohibitance (Date)       28.05.2009         Control supply voltage 1 th a AC       24 V         e at 50 Hz rated value       24 V         e at 60 Hz rated value       24 V	<ul> <li>relay output</li> </ul>	Yes
product extension optional remote control       No         power loss [W] maximum       2 W         insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value       300 V         test voltage for isolation test       2 kV         degree of pollution       3         surge voltage resistance rated value       4 000 V         protection class IP       IP20         shock resistance acc. to IEC 60068-2-27       11g / 15 ms         vibration resistance acc. to IEC 60068-2-6       10 55 Hz / 0.35 mm         mechanical service life (switching cycles) typical       10 000 000         electrical endurance (switching cycles) at AC-15 at 230 V       100 000         typical       0.05 600 s         relative setting accuracy relating to full-scale value       5 %         thermal current       5 A         minimum ON period       200 ms         reference code acc. to IEC 81346-2       K         relative repeat accuracy       1 %         Substance Prohibitance (Date)       28.05.2009         Control supply voltage 1 at AC       600 Hz         e at 50 Hz rated value       24 V         e at 60 Hz rated value       24 V         e at 60 Hz rated value       24 V	<ul> <li>semi-conductor output</li> </ul>	No
power loss [W] maximum2 Winsulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value300 Vtest voltage for isolation test2 kVdegree of pollution3surge voltage resistance rated value4 000 Vprotection class IPIP20shock resistance acc. to IEC 60068-2-2711g / 15 msvibration resistance acc. to IEC 60068-2-610 55 Hz / 0.35 mmmechanical service life (switching cycles) typical10 000 000electrical endurance (switching cycles) at AC-15 at 230 V100 000typical0.05 600 srelative setting accuracy relating to full-scale value5 %thermal current5 Aminimum ON period200 msreference code acc. to IEC 81346-2Krelative repeat accuracy1 %substance Prohibitance (Date)28.05.2009Control supply voltage 1 at AC24 Ve at 60 Hz rated value24 Ve at 60 Hz rated value24 Ve at 00 Hz rated value24 V	product extension required remote control	No
Insulation voltage for vervoltage category III according to IEC 60664 with degree of pollution 3 rated value       300 V         test voltage for isolation test       2 kV         degree of pollution       3         surge voltage resistance rated value       4 000 V         protection class IP       IP20         shock resistance acc. to IEC 60068-2-27       11g / 15 ms         vibration resistance acc. to IEC 60068-2-6       10 55 Hz / 0.35 mm         mechanical service life (switching cycles) typical       100 000         electrical endurance (switching cycles) at AC-15 at 230 V       100 000         typical       0.05 600 s         relative setting accuracy relating to full-scale value       5 %         thermal current       5 A         minimum ON period       200 oms         recovery time       150 ms         reference code acc. to IEC 81346-2       K         relative repeat accuracy       1 %         jinfluence of the surrounding temperature       ±5 %         power supply influence       ±1 %         substance Prohibitance (Date)       28.05.2009         Control supply voltage 1 at AC       60 Hz         e at 50 Hz rated value       24 V         e at 60 Hz rated value       24 V         e at 0C Hz rated value	product extension optional remote control	No
IEC 60664 with degree of pollution 3 rated value         test voltage for isolation test       2 kV         degree of pollution       3         surge voltage resistance rated value       4 000 V         protection class IP       IP20         shock resistance acc. to IEC 60068-2-27       11g / 15 ms         vibration resistance acc. to IEC 60068-2-6       10 55 Hz / 0.35 mm         mechanical service life (switching cycles) typical       10 000 000         electrical endurance (switching cycles) at AC-15 at 230 V       100 000         typical       0.05 600 s         adjustable time       0.05 600 s         relative setting accuracy relating to full-scale value       5 %         thermal current       5 A         minimum ON period       200 ms         reference code acc. to IEC 81346-2       K         relative repeat accuracy       1 %         influence of the surrounding temperature       45 %         power supply influence       11 %         Substance Prohibitance (Date)       28.05 2009         Control circuit/ Control       24 V         e at 60 Hz rated value       24 V         e at 60 Hz rated value       24 V         e at 60 Hz rated value       24 V         e at 0C Hz rated value <td>power loss [W] maximum</td> <td>2 W</td>	power loss [W] maximum	2 W
degree of pollution       3         surge voltage resistance rated value       4 000 V         protection class IP       IP20         shock resistance acc. to IEC 60068-2-27       11g / 15 ms         vibration resistance acc. to IEC 60068-2-6       10 55 Hz / 0.35 mm         mechanical service life (switching cycles) typical       10 000 000         electrical endurance (switching cycles) at AC-15 at 230 V       100 000         typical       0.05 600 s         relative setting accuracy relating to full-scale value       5 %         thermal current       5 A         minimum ON period       200 ms         recovery time       150 ms         reference code acc. to IEC 81346-2       K         relative repeat accuracy       1 %         influence of the surrounding temperature       ±5 %         power supply influence       ±1 %         Substance Prohibitance (Date)       28.05.2009         Control supply voltage 1 at AC       24 V         • at 50 Hz rated value       24 V         • at 60 Hz rated value       24 V         • at 0C rated value       24 V		300 V
surge voltage resistance rated value       4 000 V         protection class IP       IP20         shock resistance acc. to IEC 60068-2-27       11g / 15 ms         vibration resistance acc. to IEC 60068-2-6       10 55 Hz / 0.35 mm         mechanical service life (switching cycles) typical       10 000 000         electrical endurance (switching cycles) at AC-15 at 230 V       100 000         typical       0.05 600 s         adjustable time       0.05 600 s         relative setting accuracy relating to full-scale value       5 %         thermal current       5 A         minimum ON period       200 ms         recovery time       150 ms         reference code acc. to IEC 81346-2       K         relative repeat accuracy       1 %         influence of the surrounding temperature       45 %         power supply influence       ±1 %         Substance Prohibitance (Date)       28.05.2009         Control circuit/ Control       24 V         e at 50 Hz rated value       24 V         e at 60 Hz rated value       24 V         e at 60 Hz rated value       24 V         e at DC rated value       24 V	test voltage for isolation test	2 KV
protection class IPIP20shock resistance acc. to IEC 60068-2-2711g / 15 msvibration resistance acc. to IEC 60068-2-610 55 Hz / 0.35 mmmechanical service life (switching cycles) typical10 000 000electrical endurance (switching cycles) at AC-15 at 230 V100 000typical0.05 600 sadjustable time0.05 600 srelative setting accuracy relating to full-scale value5 %thermal current5 Aminimum ON period200 msrecovery time150 msreference code acc. to IEC 81346-2Krelative repeat accuracy1 %influence of the surrounding temperature±5 %power supply influence±1 %Substance Prohibitance (Date)28.05.2009Control circuit/ Control24 Ve at 50 Hz rated value24 Vcontrol supply voltage 150 60 Hze at DC rated value24 Ve at DC rated value24 V	degree of pollution	3
shock resistance acc. to IEC 60068-2-2711g / 15 msvibration resistance acc. to IEC 60068-2-610 55 Hz / 0.35 mmmechanical service life (switching cycles) typical10 000 000electrical endurance (switching cycles) at AC-15 at 230 V100 000typicaladjustable time0.05 600 srelative setting accuracy relating to full-scale value5 %thermal current5 Aminimum ON period200 msreference code acc. to IEC 81346-2Krelative repeat accuracy1 %influence of the surrounding temperature±5 %power supply influence±1 %Substance Prohibitance (Date)28.05.2009Control supply voltage of the control supply voltageAC/DCcontrol supply voltage frequency 150 60 Hze at 60 Hz rated value24 Ve at 00 Hz rated value24 Ve at 0C rated value<	surge voltage resistance rated value	4 000 V
vibration resistance acc. to IEC 60068-2-610 55 Hz / 0.35 mmmechanical service life (switching cycles) typical10 000 000electrical endurance (switching cycles) at AC-15 at 230 V100 000typical0.05 600 srelative setting accuracy relating to full-scale value5 %thermal current5 Aminimum ON period200 msrecovery time150 msreference code acc. to IEC 81346-2Krelative repeat accuracy1 %influence of the surrounding temperature±5 %power supply influence±1 %Substance Prohibitance (Date)28.05.2009Control circuit/ Control24 Ve at 60 Hz rated value24 Ve at 60 Hz rated value24 Ve at 60 Hz rated value24 Ve at 0D rated value24 Ve at DC rated value24 Ve at DC rated value24 V	protection class IP	IP20
mechanical service life (switching cycles) typical10 000 000electrical endurance (switching cycles) at AC-15 at 230 V typical100 000adjustable time0.05 600 srelative setting accuracy relating to full-scale value5 %thermal current5 Aminimum ON period200 msrecovery time150 msreference code acc. to IEC 81346-2Krelative repeat accuracy1 %influence of the surrounding temperature±5 %power supply influence±1 %Substance Prohibitance (Date)28.05.2009Control circuit/ Control24 Ve at 50 Hz rated value24 Ve at 60 Hz rated value24 Vcontrol supply voltage frequency 150 60 Hzcontrol supply voltage 1 at AC24 Ve at 60 Hz rated value24 Ve at 60 Hz rated value24 Ve at 60 Hz rated value24 Ve at 0 C rated value24 Ve at 0 C rated value24 V	shock resistance acc. to IEC 60068-2-27	11g / 15 ms
electrical endurance (switching cycles) at AC-15 at 230 V       100 000         typical       0.05 600 s         relative setting accuracy relating to full-scale value       5 %         thermal current       5 A         minimum ON period       200 ms         recovery time       150 ms         reference code acc. to IEC 81346-2       K         relative repeat accuracy       1 %         influence of the surrounding temperature       ±5 %         power supply influence       ±1 %         Substance Prohibitance (Date)       28.05.2009         Control supply voltage 1 at AC       at 50 Hz rated value         • at 50 Hz rated value       24 V         • at 60 Hz rated value       24 V         • at 0C rated value       24 V	vibration resistance acc. to IEC 60068-2-6	10 55 Hz / 0.35 mm
typicaladjustable time0.05 600 srelative setting accuracy relating to full-scale value5 %thermal current5 Aminimum ON period200 msrecovery time150 msreference code acc. to IEC 81346-2Krelative repeat accuracy1 %influence of the surrounding temperature±5 %power supply influence±1 %Substance Prohibitance (Date)28.05.2009Control circuit/ Controltype of voltage of the control supply voltageat 50 Hz rated value24 Ve at 60 Hz rated value24 Vcontrol supply voltage frequency 150 60 Hzcontrol supply voltage 1e at DC rated valuee at DC rated value24 V	mechanical service life (switching cycles) typical	10 000 000
relative setting accuracy relating to full-scale value5 %thermal current5 Aminimum ON period200 msrecovery time150 msreference code acc. to IEC 81346-2Krelative repeat accuracy1 %influence of the surrounding temperature±5 %power supply influence±1 %Substance Prohibitance (Date)28.05.2009Control circuit/ Controlthe control supply voltagetype of voltage of the control supply voltageAC/DCe at 50 Hz rated value24 V• at 60 Hz rated value24 V• at 0C rated value24 V• at DC rated value24 V• at DC rated value24 V		100 000
thermal current5 Aminimum ON period200 msrecovery time150 msreference code acc. to IEC 81346-2Krelative repeat accuracy1 %influence of the surrounding temperature±5 %power supply influence±1 %Substance Prohibitance (Date)28.05.2009Control circuit/ Control40 Ctype of voltage of the control supply voltageAC/DCcontrol supply voltage 1 at AC24 V• at 50 Hz rated value24 V• at 60 Hz rated value50 60 Hzcontrol supply voltage 150 60 Hzcontrol supply voltage 124 V• at DC rated value24 V	adjustable time	0.05 600 s
minimum ON period200 msrecovery time150 msreference code acc. to IEC 81346-2Krelative repeat accuracy1 %influence of the surrounding temperature±5 %power supply influence±1 %Substance Prohibitance (Date)28.05.2009Control circuit/ Controltype of voltage of the control supply voltageAC/DCcontrol supply voltage 1 at AC• at 50 Hz rated value24 V• at 60 Hz rated value24 Vcontrol supply voltage frequency 150 60 Hzcontrol supply voltage 142 V	relative setting accuracy relating to full-scale value	5 %
recovery time150 msreference code acc. to IEC 81346-2Krelative repeat accuracy1 %influence of the surrounding temperature±5 %power supply influence±1 %Substance Prohibitance (Date)28.05.2009Control circuit/ ControlKtype of voltage of the control supply voltageAC/DCcontrol supply voltage 1 at AC24 V• at 50 Hz rated value24 Vcontrol supply voltage frequency 150 60 Hzcontrol supply voltage 1424 V• at DC rated value24 V	thermal current	5 A
reference code acc. to IEC 81346-2       K         relative repeat accuracy       1 %         influence of the surrounding temperature       ±5 %         power supply influence       ±1 %         Substance Prohibitance (Date)       28.05.2009         Control circuit/ Control       type of voltage of the control supply voltage         AC/DC       control supply voltage 1 at AC         • at 50 Hz rated value       24 V         • at 60 Hz rated value       24 V         control supply voltage frequency 1       50 60 Hz         control supply voltage 1       40 Hz         • at DC rated value       24 V	minimum ON period	200 ms
relative repeat accuracy       1 %         influence of the surrounding temperature       ±5 %         power supply influence       ±1 %         Substance Prohibitance (Date)       28.05.2009         Control circuit/ Control          type of voltage of the control supply voltage       AC/DC         control supply voltage 1 at AC          • at 50 Hz rated value       24 V         • at 60 Hz rated value       24 V         control supply voltage frequency 1       50 60 Hz         control supply voltage 1       40 Hz         • at DC rated value       24 V	recovery time	150 ms
influence of the surrounding temperature       ±5 %         power supply influence       ±1 %         Substance Prohibitance (Date)       28.05.2009         Control circuit/ Control       28.05.2009         control supply voltage of the control supply voltage       AC/DC         e at 50 Hz rated value       24 V         • at 60 Hz rated value       24 V         control supply voltage frequency 1       50 60 Hz         control supply voltage 1       40 Hz         • at DC rated value       24 V	reference code acc. to IEC 81346-2	К
power supply influence       ±1 %         Substance Prohibitance (Date)       28.05.2009         Control circuit/ Control          type of voltage of the control supply voltage       AC/DC         control supply voltage 1 at AC          • at 50 Hz rated value       24 V         • at 60 Hz rated value       24 V         control supply voltage frequency 1       50 60 Hz         control supply voltage 1       40 Hz         • at DC rated value       24 V	relative repeat accuracy	1 %
Substance Prohibitance (Date)       28.05.2009         Control circuit/ Control       28.05.2009         type of voltage of the control supply voltage       AC/DC         control supply voltage 1 at AC       4000000000000000000000000000000000000	influence of the surrounding temperature	±5 %
Control circuit/ Control       type of voltage of the control supply voltage     AC/DC       control supply voltage 1 at AC     24 V       • at 50 Hz rated value     24 V       • at 60 Hz rated value     24 V       control supply voltage frequency 1     50 60 Hz       control supply voltage 1     40 Hz       • at DC rated value     24 V	power supply influence	±1 %
type of voltage of the control supply voltageAC/DCcontrol supply voltage 1 at AC• at 50 Hz rated value24 V• at 60 Hz rated value24 Vcontrol supply voltage frequency 150 60 Hzcontrol supply voltage 124 V	Substance Prohibitance (Date)	28.05.2009
control supply voltage 1 at AC       24 V         • at 50 Hz rated value       24 V         • at 60 Hz rated value       24 V         control supply voltage frequency 1       50 60 Hz         control supply voltage 1       40 V         • at DC rated value       24 V	Control circuit/ Control	
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>24 V</li> <li>24 V</li> <li>control supply voltage frequency 1</li> <li>50 60 Hz</li> <li>control supply voltage 1</li> <li>at DC rated value</li> <li>24 V</li> </ul>	type of voltage of the control supply voltage	AC/DC
• at 60 Hz rated value     24 V       control supply voltage frequency 1     50 60 Hz       control supply voltage 1     24 V       • at DC rated value     24 V	control supply voltage 1 at AC	
control supply voltage frequency 1       50 60 Hz         control supply voltage 1       24 V	• at 50 Hz rated value	24 V
control supply voltage 1       • at DC rated value       24 V	• at 60 Hz rated value	24 V
• at DC rated value 24 V	control supply voltage frequency 1	50 60 Hz
	control supply voltage 1	
operating range factor control supply voltage rated	at DC rated value	24 V
	operating range factor control supply voltage rated	

	_
value at DC	
initial value	0.7
• full-scale value	1.25
operating range factor control supply voltage rated value at AC at 50 Hz	
<ul> <li>initial value</li> </ul>	0.85
<ul> <li>full-scale value</li> </ul>	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	0.85
• full-scale value	1.1
Switching Function	
switching function	
ON-delay	No
ON-delay/instantaneous contact	No
passing make contact	No
<ul> <li>passing make contact/instantaneous contact</li> </ul>	No
• OFF delay	Yes
switching function	-
<ul> <li>flashing symmetrically with interval start/instantaneous</li> </ul>	No
<ul> <li>flashing symmetrically with interval start</li> </ul>	No
<ul> <li>flashing symmetrically with pulse start/instantaneous</li> </ul>	No
<ul> <li>flashing symmetrically with pulse start</li> </ul>	No
<ul> <li>flashing asymmetrically with interval start</li> </ul>	No
<ul> <li>flashing asymmetrically with pulse start</li> </ul>	No
switching function	
<ul> <li>star-delta circuit with delay time</li> </ul>	No
star-delta circuit	No
switching function with control signal	
<ul> <li>additive ON-delay</li> </ul>	No
passing break contact	No
<ul> <li>passing break contact/instantaneous</li> </ul>	No
OFF delay	No
OFF delay/instantaneous	No
pulse delayed	No
pulse delayed/instantaneous	No
• pulse-shaping	No
• pulse-shaping/instantaneous	No
<ul> <li>additive ON-delay/instantaneous</li> </ul>	No
<ul> <li>ON-delay/OFF-delay/instantaneous</li> </ul>	No
passing make contact	No
<ul> <li>passing make contact/instantaneous contact</li> </ul>	No
switching function of interval relay with control signal	
<ul> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> </ul>	No
<ul> <li>retrotriggerable with switched-on control signal</li> </ul>	No
<ul> <li>retrotriggerable with switched-on control signal/instantaneous contact</li> </ul>	No
<ul> <li>retriggerable with deactivated control signal</li> </ul>	No
Short-circuit protection	
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 4 A
Auxiliary circuit	
material of switching contacts	AgNi
number of NC contacts delayed switching	0
number of NO contacts delayed switching	0
number of CO contacts delayed switching	1
operational current of auxiliary contacts at AC-15	
• at 24 V	3 A

• at 250 V	3 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
• at 125 V	0.2 A
• at 250 V	0.1 A
operating frequency with 3RT2 contactor maximum	5 000 1/h
contact reliability of auxiliary contacts	one incorrect switching operation of 100 million switching operations (17 V, 5 mA) $$
contact rating of auxiliary contacts according to UL	R300 / B300
Inputs/ Outputs	
product function	
non-volatile	No
Electromagnetic compatibility	
EMC emitted interference acc. to IEC 61812-1	EN 61000-6-4(3)
EMC immunity acc. to IEC 61812-1	EN 61000-6-2
conducted interference	
<ul> <li>due to burst acc. to IEC 61000-4-4</li> </ul>	2 kV network connection / 1 kV control connection
<ul> <li>due to conductor-earth surge acc. to IEC 61000-4-5</li> </ul>	2 kV
<ul> <li>due to conductor-conductor surge acc. to IEC 61000-4-5</li> </ul>	1 kV
field-based interference acc. to IEC 61000-4-3	10 V/m
electrostatic discharge acc. to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Safety related data	
protection class IP on the front acc. to IEC 60529	IP20
type of insulation	Basic insulation
category acc. to EN 954-1	none
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	
• solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
<ul> <li>at AWG cables solid</li> </ul>	2x (20 14)
<ul> <li>at AWG cables stranded</li> </ul>	2x (20 14)
connectable conductor cross-section	
• solid	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
AWG number as coded connectable conductor cross section	
• solid	20 14
• stranded	20 14
tightening torque	0.8 1.2 N·m
design of the thread of the connection screw	M3
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
height	83 mm
width	22.5 mm
depth	91 mm
required spacing	
• with side-by-side mounting	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
for grounded parts	
— forwards	0 mm
— backwards	0 mm

— upwards					
		0 mr	1		
— at the side	2	0 mr	า		
- downward	S	0 mr	า		
<ul> <li>for live parts</li> </ul>					
— forwards		0 mr	า		
- backwards	3	0 mr	า		
— upwards		0 mr	า		
— downward	S	0 mr	า		
— at the side	2	0 mr	n		
mbient conditions					
installation altitude at	height above sea level	maximum 2 00	) m		
ambient temperatur	e				
<ul> <li>during operatio</li> </ul>	n	-25 .	+60 °C		
<ul> <li>during storage</li> </ul>		-40 .	+85 °C		
<ul> <li>during transpor</li> </ul>	t	-40 .	+85 °C		
relative humidity durir	ng operation	10	95 %		
ertificates/ approval					
General Product Ap	oproval			EMC	Declaration of Conformity
				-	
(Ch	(m)	س	FAL		Miscellaneous
			CUL	Ś	
CSA	ccc	UL		RCM	
Declaration of Conformity	Test Certificates	Marine / Shipping			
"	<u>Type Test Certific-</u>		Llovds	(A)	
CE	Type Test Certific- ates/Test Report		Llovd's Register		
C C EG-Konf.		BUREAU	Hoyd's Register	PRS	RINA
CE EG-Konf.		B U R E A U VERITAS	Hoyd's Kegister us	PRS	RINA
CE EG-Konf.		BUREAU VERITAS	Hoyd's Register Lirs	PRS	RINA
EG-Konf. Marine / Shipping		<b>EUREAU</b> VERITAS	Lloyds Register LRS	Prs	RINA
				-	RINA
		BUREAU         BUREAU         VERITAS	Lloyds us	Special Test Certific-	RINA
				-	RINA
				Special Test Certific-	RINA
				Special Test Certific-	RINA
				Special Test Certific-	<b>RINA</b>
Marine / Shipping				Special Test Certific-	<b>RINA</b>
Marine / Shipping	ates/Test Report	Confirmation		Special Test Certific-	<b>RINA</b>
Marine / Shipping	ates/Test Report	Confirmation		Special Test Certific-	RINA
Marine / Shipping	wnloadcenter (Catalo	Confirmation		Special Test Certific-	RINA
Marine / Shipping	wnloadcenter (Catalo com/ic10 e ordering system) iemens.com/mall/en/en	Confirmation	Miscellaneous	Special Test Certific-	UNA CONTRACTOR
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