SIEMENS

Data sheet

3RP2513-2AW30



Timing relay, electronic slow-operating 1 change-over contact, 1 time range 5...100 s 12-240 V AC/DC at 50/60 Hz AC with LED, Spring-type terminal (push-in)

product brand name	SIRIUS
product designation	timing relay
design of the product	slow-operating
product type designation	3RP25
General technical data	
product component	
 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 IEC 60664 with degree of pollution 3 rated value	300 V
test voltage for isolation test	2.5 kV
degree of pollution	3
surge voltage resistance rated value	4 000 V
shock resistance according to IEC 60068-2-27	11g / 15 ms
vibration resistance according to IEC 60068-2-6	10 55 Hz / 0.35 mm
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
adjustable time	5 100 s
relative setting accuracy relating to full-scale value	5 %; +/-
thermal current	5 A
recovery time	250 ms
reference code according to IEC 81346-2	К
relative repeat accuracy	1 %; +/-
influence of the surrounding temperature	1% in the whole temperature range to the set runtime
power supply influence	1% in the whole voltage range to the set runtime
Substance Prohibitance (Date)	09/12/2014
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
Weight	0.132 kg
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
• at 50 Hz	12 240 V
• at 60 Hz	12 240 V
control supply voltage frequency 1	50 60 Hz
control supply voltage 1 at DC	12 240 V
operating range factor control supply voltage rated value at	

DC	
	0.0
• initial value	0.8
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
initial value	0.8
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
initial value	0.8
full-scale value	1.1
inrush current peak	
• at 24 V	0.4 A
• at 240 V	5 A
duration of inrush current peak	
• at 24 V	0.3 ms
• at 240 V	0.5 ms
Switching Function	0.0 110
switching function	
ON-delay	Yes
ON-delay/instantaneous contact	No
passing make contact	No
	No
 passing make contact/instantaneous contact OFF delay 	No
switching function	
flashing symmetrically with interval start/instantaneous	No
	No
flashing symmetrically with interval start	No
flashing symmetrically with pulse start/instantaneous	No
flashing symmetrically with pulse start	No
flashing asymmetrically with interval start	No
flashing asymmetrically with pulse start	NO
switching function	No
star-delta circuit with delay time	No
star-delta circuit switching function with control signal	NO
additive ON-delay	No
passing break contact	No
passing break contact/ passing break contact/instantaneous	No
OFF delay	No
OFF delay OFF delay	No
-	
 pulse delayed pulse delayed/instantaneous 	No
	No
 pulse-shaping pulse-shaping/instantaneous 	No
additive ON-delay/instantaneous	No
	No
ON-delay/OFF-delay/instantaneous passing make contact	No
 passing make contact passing make contact/instantaneous contact 	No
passing make contact/instantaneous contact switching function of interval relay with control signal	
retrotriggerable with deactivated control	No
signal/instantaneous contact	
 retrotriggerable with switched-on control signal 	No
 retrotriggerable with switched-on control 	No
signal/instantaneous contact	
 retriggerable with deactivated control signal 	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	AgSnO2
number of NC contacts	
 delayed switching 	0

instantaneous contact	0
number of NO contacts	
 delayed switching 	0
instantaneous contact	0
number of CO contacts	
 delayed switching 	1
 instantaneous contact 	0
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
contact rating of auxiliany contacts according to U	mA) B200 / B200
contact rating of auxiliary contacts according to UL switching capacity current with inductive load	R300 / B300 0.01 3 A
Inputs/ Outputs	
product function	No
 at the relay outputs switchover delayed/without delay 	No
non-volatile Electromegnetic competibility	No
Electromagnetic compatibility	
EMC emitted interference according to IEC 61812-1	ambience A (industrial sector)
EMC immunity according to IEC 61812-1	corresponds to degree of severity 3
conducted interference	
 due to burst according to IEC 61000-4-4 	2 kV network connection / 1 kV control connection
• due to conductor-earth surge according to IEC 61000-4-5	2 kV
due to conductor-conductor surge according to IEC	1 kV
61000-4-5	
field-based interference according to IEC 61000-4-3	10 V/m
	10 V/m 4 kV contact discharge / 8 kV air discharge
field-based interference according to IEC 61000-4-3	
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2	
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data	4 kV contact discharge / 8 kV air discharge
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data category according to EN 954-1	4 kV contact discharge / 8 kV air discharge
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data category according to EN 954-1 Electrical Safety	4 kV contact discharge / 8 kV air discharge none
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529	4 kV contact discharge / 8 kV air discharge none IP20
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation	4 kV contact discharge / 8 kV air discharge none IP20
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit	4 kV contact discharge / 8 kV air discharge none IP20 Basic insulation Yes
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit	4 kV contact discharge / 8 kV air discharge none IP20 Basic insulation
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit	4 kV contact discharge / 8 kV air discharge none IP20 Basic insulation Yes
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid	4 kV contact discharge / 8 kV air discharge none IP20 Basic insulation Yes spring-loaded terminals (push-in)
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing	4 kV contact discharge / 8 kV air discharge none IP20 Basic insulation Yes spring-loaded terminals (push-in) 0.5 4 mm ² 0.5 2.5 mm ²
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing	4 kV contact discharge / 8 kV air discharge none IP20 Basic insulation Yes spring-loaded terminals (push-in) 0.5 4 mm ²
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing	4 kV contact discharge / 8 kV air discharge none IP20 Basic insulation Yes spring-loaded terminals (push-in) 0.5 4 mm ² 0.5 4 mm ²
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • for AWG cables solid • for AWG cables stranded	4 kV contact discharge / 8 kV air discharge none IP20 Basic insulation Yes spring-loaded terminals (push-in) 0.5 4 mm ² 0.5 2.5 mm ² 0.5 4 mm ² 20 12
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • for AWG cables solid	4 kV contact discharge / 8 kV air discharge none IP20 Basic insulation Yes spring-loaded terminals (push-in) 0.5 4 mm ² 0.5 2.5 mm ² 0.5 4 mm ² 20 12
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • for AWG cables solid • for AWG cables stranded connectable conductor cross-section • solid	4 kV contact discharge / 8 kV air discharge none IP20 Basic insulation Yes spring-loaded terminals (push-in) 0.5 4 mm ² 0.5 4 mm ² 0.5 4 mm ² 20 12 20 12
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded connectable conductor cross-section • solid • for AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing	4 kV contact discharge / 8 kV air discharge none IP20 Basic insulation Yes spring-loaded terminals (push-in) 0.5 4 mm ² 0.5 4 mm ² 20 12 20 12 0.5 4 mm ²
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • for AWG cables solid • for AWG cables stranded connectable conductor cross-section • solid	4 kV contact discharge / 8 kV air discharge none IP20 Basic insulation Yes spring-loaded terminals (push-in) 0.5 4 mm ² 0.5 4 mm ² 20 12 20 12 20 12 0.5 4 mm ²
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit e solid finely stranded with core end processing for AWG cables solid for AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing finely stranded with core end processing	4 kV contact discharge / 8 kV air discharge none IP20 Basic insulation Yes spring-loaded terminals (push-in) 0.5 4 mm ² 0.5 4 mm ² 20 12 20 12 20 12 0.5 4 mm ²
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • for AWG cables solid • for AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • for AWG cables stranded Connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded with core end processing	4 kV contact discharge / 8 kV air discharge none IP20 Basic insulation Yes spring-loaded terminals (push-in) 0.5 4 mm ² 0.5 4 mm ² 20 12 20 12 20 12 0.5 4 mm ²
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded without core end processing	4 kV contact discharge / 8 kV air discharge none IP20 Basic insulation Yes spring-loaded terminals (push-in) 0.5 4 mm² 0.5 4 mm² 20 12 20 12 0.5 4 mm²
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • for AWG cables solid • for AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • for AWG cables stranded Connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded without core end processing	4 kV contact discharge / 8 kV air discharge none IP20 Basic insulation Yes spring-loaded terminals (push-in) 0.5 4 mm ² 0.5 4 mm ² 0.5 4 mm ² 20 12 0.5 4 mm ² 0.5 4 mm ² 20 12 20 12 20 12
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • for AWG cables solid • for AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • for AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded with core end processing • for AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded with core end processing	4 kV contact discharge / 8 kV air discharge none IP20 Basic insulation Yes spring-loaded terminals (push-in) 0.5 4 mm ² 0.5 4 mm ² 0.5 4 mm ² 20 12 0.5 4 mm ² 0.5 4 mm ² 20 12 20 12 20 12
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • for AWG cables solid • for AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded with core end processing • for AWG cables stranded Connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • solid • finely stranded with core end processing • finely stranded without core end processing	4 kV contact discharge / 8 kV air discharge none IP20 Basic insulation Yes spring-loaded terminals (push-in) 0.5 4 mm ² 0.5 4 mm ² 20 12 20 12 20 12 20 12 20 12 20 12 20 12
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded with core end processing • for AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • solid • finely stranded with core end processing • finely stranded without core end processing • solid • stranded	4 kV contact discharge / 8 kV air discharge none IP20 Basic insulation Yes spring-loaded terminals (push-in) 0.5 4 mm ² 0.5 4 mm ² 20 12 20 12 20 12 0.5 4 mm ² 0.5 4 mm ² 12 12 12 12 12 12 12 12 12 12
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data category according to EN 954-1 Electrical Safety protection class IP on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables solid • for AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded with core end processing • for AWG cables stranded Connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded without core end processing • solid • stranded Installation/ mounting/ dimensions mounting position fastening method	4 kV contact discharge / 8 kV air discharge none IP20 Basic insulation Yes spring-loaded terminals (push-in) 0.5 4 mm ² 0.5 4 mm ² 0.5 4 mm ² 20 12 20 12 0.5 4 mm ² 0.5 4 mm ²

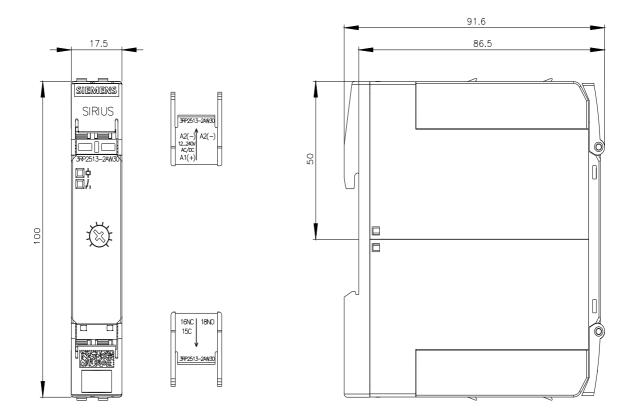
required spacing					
 with side-by-side model 	ounting				
— forwards		0 n	nm		
- backwards		0 n	nm		
— upwards		0 n	nm		
- downwards		0 n	าทา		
— at the side		0 n	าทา		
 for grounded parts 					
— forwards		0 n	nm		
- backwards		0 n	nm		
— upwards		0 n	nm		
— at the side		0 n	nm		
- downwards		0 n	nm		
 for live parts 					
- forwards		0 n	nm		
- backwards		0 m	nm		
— upwards		0 n	nm		
— downwards		0 n	nm		
— at the side		0 m	nm		
mbient conditions					
installation altitude at heigl	ht above sea level ma	aximum 2 0	00 m		
ambient temperature					
 during operation 		-25	5 +60 °C		
 during storage 		-40) +85 °C		
 during transport 		-40) +85 °C		
relative humidity during op	eration	10	95 %		
General Product Approv	ral Confirmation	ЦК			rnr
General Product Approv		UK CA	C E EG-Konf.	(U) JL	EAC
General Product Approv		UK CA Test Certificates	EG-Konf. Marine / Shipping	(Up) ut	EAC
CCC					Effective Hoved's Register Uts
CCC	<u>Confirmation</u>	Test Certificates	Marine / Shipping	UL UL Environment	ERC Hoveds Register Us
EMV ECC	<u>Confirmation</u>	Test Certificates	Marine / Shipping	Environmental Con- firmations	EAC Lloyds Kegster us
EMV EMV EMV EMV EMV EMV END END END END END END END END	Confirmation KC KC aging mens.com/cs/ww/en/ vadcenter (Catalogs,	Test Certificates Type Test Certificates ates/Test Report	Marine / Shipping	Environmental Con-	Effic Loyds Register uts
EMV EMV EXAMPLE ECM Marine / Shipping Marine / Shipping EXAMPLE EXAMPL	Confirmation KC KC aging mens.com/cs/ww/en/ adcenter (Catalogs, ic10 lering system)	Test Certificates Type Test Certificates Type Test Certificates ates/Test Report Example Example View/109813875 Brochures,)	Marine / Shipping	Environmental Con-	EAC Register us

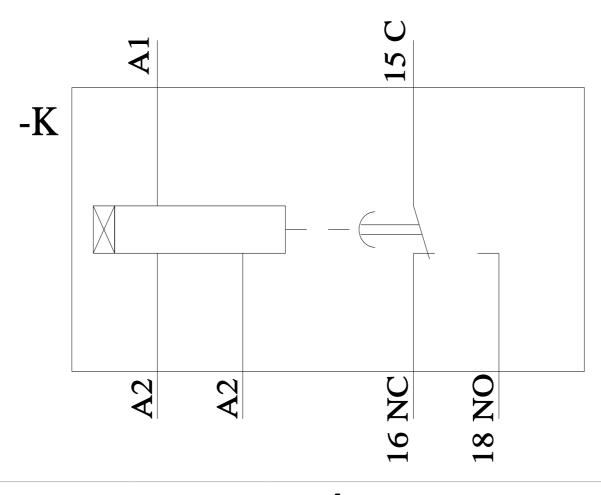
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RP2513-2AW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2513-2AW30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RP2513-2AW30/manual





last modified:

3/11/2024 🖸