## **SIEMENS**

Data sheet 3RP2025-2AP30



Timing relay, electronic ansprechverzögert 1 change-over contact 24 V AC/DC, 200 to 240 V AC at 50/60 Hz AC 0.05 s to 100 h Overall width 45 mm Spring-type terminal

product type designation  design of the product product type designation  General technical data  product component	product brand name	SIRIUS
product type designation  General technical data  product component  • relay output  • semi-conductor output  product extension required remote control  product extension required remote control  product extension optional remote control  power loss [W] maximum  2 W  insulation voltage for overvoltage category III according to IEC 60064 with degree of pollution 3 rated value  test voltage for isolation test  degree of pollution  3 surge voltage resistance rated value  4 000 V  shock resistance acc. to IEC 60068-2-27  11g / 15 ms  vibration resistance acc. to IEC 60068-2-27  vibration resistance acc. to IEC 60068-2-6  10 55 Hz / 0.35 mm  mechanical service life (switching cycles) typical electrical endurance (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V  typical adjustable time  0.05 100 s  relative setting accuracy relating to full-scale value  5 %; +/-  thermal current  5 A  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  21 %  Substance Prohibitance (Date)  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage 1 at AC  • at 50 Hz rated value  24 V  • at 60 Hz rated value  control supply voltage 2 at AC  • at 50 Hz  • at 60 Hz  at 60 Hz  control supply voltage frequency 1  50 60 Hz  control supply voltage frequency 1	product designation	timing relay
General technical data  product component  • relay output  • semi-conductor output  No  product extension required remote control  power loss [W] maximum    Sumain	design of the product	slow-operating
product component  • relay output  • semi-conductor output  No  product extension required remote control  product extension optional remote control  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  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  electrical endurance (switching cycles) at AC-15 at 230 V typical  adjustable time  rolative setting accuracy relating to full-scale value  thermal current  5 A  recovery time  150 ms  reference code acc. to IEC 81346-2  K  relative repeat accuracy  influence of the surrounding temperature  45 %  Substance Prohibitance (Date)  Control druptive Control  type of voltage of the control supply voltage  control supply voltage 1 at AC  • at 50 Hz rated value  • at 60 Hz  • at 60 Hz  control supply voltage frequency 1  50 60 Hz  control supply voltage frequency 1  50 60 Hz  verificative opens according to decomply voltage frequency 1  50 60 Hz  control supply voltage frequency 1  50 60 Hz	product type designation	3RP20
• relay output • semi-conductor output product extension required remote control product extension optional 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  test voltage for isolation test degree of pollution 3 surge voltage resistance rated value 4 000 V 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 electrical endurance (switching cycles) at AC-15 at 230 V typical adjustable time relative setting accuracy relating to full-scale value 5 %; +/- thermal current 5 A recovery time 150 ms reference code acc. to IEC 81346-2 Krelative repeat accuracy 1 %; +/- influence of the surrounding temperature ±5 % power supply influence 1 the power supply influence 1 the substance Prohibitance (Date) Control circuit/ Control type of voltage of the control supply voltage control supply voltage 1 at AC • at 50 Hz rated value • at 60 Hz rated value • at 60 Hz rated value • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz control supply voltage frequency 1  50 60 Hz	General technical data	
• semi-conductor output 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 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 electrical endurance (switching cycles) typical adjustable time 0.05 100 s relative setting accuracy relating to full-scale value thermal current 5 A 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 24 V ent 60 Hz rated value 24 V ent 60 Hz rated value 24 V ent 60 Hz rated value 24 V ent 60 Hz ent for ent for Hz ent for H	product component	
product extension required remote control product extension optional remote control product extension optional remote control power loss [W] maximum   2 W	<ul> <li>relay output</li> </ul>	Yes
product extension optional remote control power loss [W] maximum 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 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 electrical endurance (switching cycles) typical adjustable time 0.05 100 s relative setting accuracy relating to full-scale value thermal current 5 A recovery time 150 ms reference code acc. to IEC 81346-2 K relative repeat accuracy influence of the surrounding temperature power supply influence substance Prohibitance (Date) Control circuit/ Control type of voltage of the control supply voltage control supply voltage 1 at AC  • at 50 Hz rated value • at 60 Hz rated value • at 60 Hz • control supply voltage frequency 1  50 60 Hz  control supply voltage frequency 1  50 60 Hz	semi-conductor output	No
power loss [W] maximum  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  surge voltage resistance rated value  4 000 V  shock resistance acc. to IEC 60068-2-27  vibration resistance acc. to IEC 60068-2-6  10 55 Hz / 0.35 mm  mechanical service life (switching cycles) typical  electrical endurance (switching cycles) typical  adjustable time  relative setting accuracy relating to full-scale value  thermal current  recovery time  150 ms  reference code acc. to IEC 81346-2  krelative repeat accuracy  influence of the surrounding temperature  power supply influence  substance Prohibitance (Date)  Control Circuit/ Control  type of voltage of the control supply voltage  control supply voltage 1 at AC  e at 50 Hz rated value  e at 60 Hz  e at 60 Hz  control supply voltage frequency 1  50 60 Hz  2 W  day V  degree of pollution 3 rated value 400 V  substance Prohibitance (Date)  control supply voltage 2 at AC  e at 50 Hz  e at 60 Hz  control supply voltage frequency 1  50 60 Hz  control supply voltage frequency 1	product extension required remote control	No
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 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 electrical endurance (switching cycles) at AC-15 at 230 V typical adjustable time relative setting accuracy relating to full-scale value thermal current 5 A recovery time 150 ms reference code acc. to IEC 81346-2 K relative repeat accuracy influence of the surrounding temperature \$\frac{1}{2}\$ % \$\frac{1}{2}\$ wo \$\	product extension optional remote control	No
test voltage for isolation test degree of pollution 3 rated value  1 surge voltage resistance rated value shock resistance acc. to IEC 60068-2-6 vibration resistance acc. to IEC 60068-2-6 10 55 Hz / 0.35 mm mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical adjustable time relative setting accuracy relating to full-scale value thermal current 5 A recovery time reference code acc. to IEC 81346-2 Relative repeat accuracy influence of the surrounding temperature the substance Prohibitance (Date)  Control circuit/ Control type of voltage of the control supply voltage control supply voltage 1 at AC at 50 Hz rated value at 60 Hz at 60 Hz control supply voltage frequency 1 50 60 Hz  2 kV d 4000 V 3 3 3 3 3 4000 V 400	power loss [W] maximum	2 W
degree of pollution  surge voltage resistance rated value  shock resistance acc. to IEC 60068-2-27  vibration resistance acc. to IEC 60068-2-6  mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical adjustable time  crelative setting accuracy relating to full-scale value thermal current  ference code acc. to IEC 81346-2  relative repeat accuracy relative repeat accuracy 1 %; +/- influence of the surrounding temperature power supply influence \$15 %  Substance Prohibitance (Date)  control circuit/ Control  type of voltage of the control supply voltage control supply voltage 1 at AC  at 50 Hz rated value  at 50 Hz  at 50 Hz  control supply voltage frequency 1  at 60 Hz  control supply voltage frequency 1  at 60 Hz  control supply voltage frequency 1		300 V
surge voltage resistance rated value 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 electrical endurance (switching cycles) at AC-15 at 230 V typical adjustable time electrical endurance (switching cycles) at AC-15 at 230 V typical adjustable time 7	test voltage for isolation test	2 kV
shock resistance acc. to IEC 60068-2-27  vibration resistance acc. to IEC 60068-2-6  mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical adjustable time  crelative setting accuracy relating to full-scale value thermal current  frequence code acc. to IEC 81346-2  relative repeat accuracy influence of the surrounding temperature power supply influence  substance Prohibitance (Date)  Control circuit/ Control  type of voltage of the control supply voltage at 50 Hz rated value at 60 Hz rated value at 60 Hz control supply voltage frequency 1  substance Prohibit supply voltage frequency 1  at 10, 15 ms 10, 55 Hz / 0.35 mm 10, 000 000  100 00  1	degree of pollution	3
vibration resistance acc. to IEC 60068-2-6  mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical  adjustable time	surge voltage resistance rated value	4 000 V
mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical adjustable time 0.05 100 s relative setting accuracy relating to full-scale value thermal current 5 A recovery time 150 ms reference code acc. to IEC 81346-2 K relative repeat accuracy 11%; +/- influence of the surrounding temperature power supply influence ±1 % Substance Prohibitance (Date)  Control circuit/ Control type of voltage of the control supply voltage at 60 Hz rated value at 60 Hz rated value at 60 Hz at 60 Hz control supply voltage frequency 1 50 60 Hz control supply voltage frequency 1 50 60 Hz	shock resistance acc. to IEC 60068-2-27	11g / 15 ms
electrical endurance (switching cycles) at AC-15 at 230 V typical  adjustable time  relative setting accuracy relating to full-scale value  thermal current  5 A  recovery time  150 ms  reference code acc. to IEC 81346-2  K  relative repeat accuracy  influence of the surrounding temperature  power supply influence  5 %  Substance Prohibitance (Date)  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage 1 at AC  at 50 Hz rated value  at 60 Hz rated value  at 60 Hz  at 60 Hz  at 60 Hz  control supply voltage frequency 1  50 60 Hz  control supply voltage frequency 1	vibration resistance acc. to IEC 60068-2-6	10 55 Hz / 0.35 mm
adjustable time 0.05 100 s relative setting accuracy relating to full-scale value 5 %; +/- thermal current 5 A 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) 01.05.2012  Control circuit/ Control type of voltage of the control supply voltage AC/DC control supply voltage 1 at AC	mechanical service life (switching cycles) typical	10 000 000
relative setting accuracy relating to full-scale value  thermal current  5 A  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)  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage 1 at AC  • at 50 Hz rated value  • at 60 Hz rated value  • at 50 Hz  • at 60 Hz  control supply voltage 2 at AC  • at 50 Hz  • at 60 Hz  control supply voltage frequency 1  50 60 Hz		100 000
thermal current  recovery time  150 ms  reference code acc. to IEC 81346-2  K  relative repeat accuracy  influence of the surrounding temperature  power supply influence  substance Prohibitance (Date)  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage 1 at AC  • at 50 Hz rated value  • at 60 Hz rated value  • at 50 Hz  • at 50 Hz  control supply voltage 2 at AC  • at 50 Hz  • at 60 Hz  control supply voltage 2 at AC  • at 50 Hz  • at 60 Hz  control supply voltage frequency 1  5 A  150 ms  AC/DC  AC/DC  24 V  24 V  24 V  250 240 V  36 60 Hz  50 60 Hz	adjustable time	0.05 100 s
recovery time  reference code acc. to IEC 81346-2  K  relative repeat accuracy influence of the surrounding temperature  power supply influence  ±1 %  Substance Prohibitance (Date)  Control circuit/ Control  type of voltage of the control supply voltage control supply voltage 1 at AC  • at 50 Hz rated value • at 60 Hz rated value • at 50 Hz • at 60 Hz  control supply voltage 2 at AC  • at 50 Hz • at 60 Hz  control supply voltage 7 at AC  • at 50 Hz • at 60 Hz  control supply voltage 7 at AC  • at 50 Hz • at 60 Hz  control supply voltage 7 at AC  • at 50 Hz • at 60 Hz  control supply voltage frequency 1  50 60 Hz	relative setting accuracy relating to full-scale value	5 %; +/-
reference code acc. to IEC 81346-2  Relative repeat accuracy influence of the surrounding temperature power supply influence  \$\frac{\pmathbf{t}}{2}\t	thermal current	5 A
relative repeat accuracy influence of the surrounding temperature  ±5 %  power supply influence  ±1 %  Substance Prohibitance (Date)  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage 1 at AC  • at 50 Hz rated value • at 60 Hz rated value  • at 50 Hz • at 50 Hz  control supply voltage 2 at AC  • at 50 Hz • at 60 Hz  control supply voltage 7 at AC  • at 50 Hz • at 60 Hz	recovery time	150 ms
influence of the surrounding temperature  power supply influence  \$\frac{\pmathbf{\text{thm}}}{\pmathbf{\text{thm}}} \text{ influence} \text{ to the surrounding temperature} \text{ to the surpoly influence} \text{ to the supply voltage} \text{ on to los.2012} \text{ Control circuit/ Control} \text{ type of voltage of the control supply voltage} \text{ AC/DC} \text{ control supply voltage 1 at AC} \text{ at 50 Hz rated value} \text{ 24 V} \text{ control supply voltage 2 at AC} \text{ at 60 Hz} \text{ 200 240 V} \text{ control supply voltage frequency 1} \text{ 50 60 Hz} \text{ 50 60 Hz} \text{ control supply voltage frequency 1} \text{ 50 60 Hz}	reference code acc. to IEC 81346-2	K
power supply influence ±1 %  Substance Prohibitance (Date) 01.05.2012  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  control supply voltage 2 at AC  • at 50 Hz 2 200 240 V  • at 60 Hz 50 Hz 2 200 240 V  control supply voltage frequency 1 50 60 Hz	relative repeat accuracy	1 %; +/-
Substance Prohibitance (Date)  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage 1 at AC  • at 50 Hz rated value  • at 60 Hz rated value  • at 50 Hz  control supply voltage 2 at AC  • at 50 Hz  • at 60 Hz  control supply voltage frequency 1  50 60 Hz	influence of the surrounding temperature	±5 %
type of voltage of the control supply voltage  control supply voltage 1 at AC  at 50 Hz rated value  at 60 Hz rated value  control supply voltage 2 at AC  at 50 Hz  control supply voltage 2 at AC  at 50 Hz  control supply voltage 7 at AC  at 50 Hz  control supply voltage 7 at AC  at 50 Hz  control supply voltage 7 at AC  at 50 Hz  control supply voltage frequency 1  50 60 Hz	power supply influence	±1 %
type of voltage of the control supply voltage  control supply voltage 1 at AC  at 50 Hz rated value  at 60 Hz rated value  control supply voltage 2 at AC  at 50 Hz  at 50 Hz  control supply voltage 2 at AC  at 50 Hz  control supply voltage frequency 1  50 60 Hz	Substance Prohibitance (Date)	01.05.2012
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 2 at AC          200 240 V          ● at 50 Hz       200 240 V         ● at 60 Hz       200 240 V         control supply voltage frequency 1       50 60 Hz	Control circuit/ Control	
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>24 V</li> <li>control supply voltage 2 at AC</li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>control supply voltage frequency 1</li> <li>50 60 Hz</li> </ul>	type of voltage of the control supply voltage	AC/DC
• at 60 Hz rated value         24 V          control supply voltage 2 at AC         • at 50 Hz         • at 60 Hz         • at 60 Hz          control supply voltage frequency 1          50 60 Hz	control supply voltage 1 at AC	
control supply voltage 2 at AC         ● at 50 Hz       200 240 V         ● at 60 Hz       200 240 V         control supply voltage frequency 1       50 60 Hz	• at 50 Hz rated value	24 V
• at 50 Hz	at 60 Hz rated value	24 V
● at 60 Hz 200 240 V  control supply voltage frequency 1 50 60 Hz	control supply voltage 2 at AC	
control supply voltage frequency 1 50 60 Hz	● at 50 Hz	200 240 V
	● at 60 Hz	200 240 V
control supply voltage 1	control supply voltage frequency 1	50 60 Hz
	control supply voltage 1	

at DC rated value	24 V
operating range factor control supply voltage rated value at DC	
initial value	0.85
	1.1
• full-scale value     operating range factor control supply voltage rated	1.1
value at AC at 50 Hz	
• initial value	0.85
• full-scale value	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	Yes
ON-delay/instantaneous contact	No
passing make contact	No
passing make contact/instantaneous contact	No No
OFF delay	No
switching function	No
<ul> <li>flashing symmetrically with interval start/instantaneous</li> </ul>	No
flashing symmetrically with interval start	No
flashing symmetrically with pulse	No
start/instantaneous	
<ul> <li>flashing symmetrically with pulse start</li> </ul>	No
<ul> <li>flashing asymmetrically with interval start</li> </ul>	No
flashing asymmetrically with pulse start	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
<ul> <li>passing break contact</li> </ul>	No
<ul> <li>passing break contact/instantaneous</li> </ul>	No
OFF delay	No
<ul> <li>OFF delay/instantaneous</li> </ul>	No
<ul> <li>pulse delayed</li> </ul>	No
<ul> <li>pulse delayed/instantaneous</li> </ul>	No
<ul><li>pulse-shaping</li></ul>	No
<ul><li>pulse-shaping/instantaneous</li></ul>	No
<ul> <li>additive ON-delay/instantaneous</li> </ul>	No
<ul> <li>ON-delay/OFF-delay/instantaneous</li> </ul>	No
passing make contact	No
passing make contact/instantaneous contact	No
switching function of interval relay with control signal	
<ul> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> </ul>	No
retrotriggerable with switched-on control signal	No
retrotriggerable with switched-on control	No
signal/instantaneous contact	110
retriggerable with deactivated control signal	No
Short-circuit protection	
design of the fuse link for short-circuit protection of the	fuse gL/gG: 4 A
auxiliary switch required	
Auxiliary circuit	
material of switching contacts	AgSnO2
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	1A	
● 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	1,000 / 2000	
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	LN 01000-0-2	
• due to burst acc. to IEC 61000-4-4	2 kV network connection / 1 kV control connection	
due to builst acc. to IEC 61000-4-4      due to conductor-earth surge acc. to IEC 61000-4-5	2 kV	
due to conductor-earth surge acc. to IEC 61000-4-5      due to conductor-conductor surge acc. to IEC	1 kV	
61000-4-5		
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	
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front	
type of insulation	Basic insulation	
category acc. to EN 954-1	none	
Connections/ Terminals		
product component removable terminal for auxiliary	No	
and control circuit		
type of electrical connection for auxiliary and control circuit	spring-loaded terminals	
type of connectable conductor cross-sections	0 (0.05 0.05 0.0)	
a collid	177 (III 1/h 1/h mm4)	
• solid	2x (0,25 2,5 mm²)	
• finely stranded with core end processing	2 x (0.25 1.5 mm²)	
<ul><li>finely stranded with core end processing</li><li>finely stranded without core end processing</li></ul>	2 x (0.25 1.5 mm²) 2x (0.25 2.5 mm²)	
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables solid</li> </ul>	2 x (0.25 1.5 mm²) 2x (0.25 2.5 mm²) 2x (24 14)	
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> </ul>	2 x (0.25 1.5 mm²) 2x (0.25 2.5 mm²)	
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> </ul> connectable conductor cross-section	2 x (0.25 1.5 mm²) 2x (0.25 2.5 mm²) 2x (24 14) 2x (24 14)	
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> </ul> connectable conductor cross-section <ul> <li>solid</li> </ul>	2 x (0.25 1.5 mm²) 2x (0.25 2.5 mm²) 2x (24 14) 2x (24 14) 0.3 2.5 mm²	
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> <li>connectable conductor cross-section</li> <li>solid</li> <li>finely stranded with core end processing</li> </ul>	2 x (0.25 1.5 mm²) 2x (0.25 2.5 mm²) 2x (24 14) 2x (24 14) 0.3 2.5 mm² 0.3 1.5 mm²	
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> <li>connectable conductor cross-section</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul>	2 x (0.25 1.5 mm²) 2x (0.25 2.5 mm²) 2x (24 14) 2x (24 14) 0.3 2.5 mm²	
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> <li>connectable conductor cross-section</li> <li>solid</li> <li>finely stranded with core end processing</li> </ul>	2 x (0.25 1.5 mm²) 2x (0.25 2.5 mm²) 2x (24 14) 2x (24 14) 0.3 2.5 mm² 0.3 1.5 mm²	
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> <li>connectable conductor cross-section</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>AWG number as coded connectable conductor cross</li> </ul>	2 x (0.25 1.5 mm²) 2x (0.25 2.5 mm²) 2x (24 14) 2x (24 14) 0.3 2.5 mm² 0.3 1.5 mm²	
finely stranded with core end processing     finely stranded without core end processing     at AWG cables solid     at AWG cables stranded  connectable conductor cross-section     solid     finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section	2 x (0.25 1.5 mm²) 2x (0.25 2.5 mm²) 2x (24 14) 2x (24 14) 0.3 2.5 mm² 0.3 1.5 mm² 2.5 2.5 mm²	
finely stranded with core end processing     finely stranded without core end processing     at AWG cables solid     at AWG cables stranded  connectable conductor cross-section     solid     finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section     solid     stranded	2 x (0.25 1.5 mm²) 2x (0.25 2.5 mm²) 2x (24 14) 2x (24 14) 0.3 2.5 mm² 0.3 1.5 mm² 2.5 2.5 mm²	
finely stranded with core end processing     finely stranded without core end processing     at AWG cables solid     at AWG cables stranded     connectable conductor cross-section     solid     finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section     solid     stranded  Installation/ mounting/ dimensions	2 x (0.25 1.5 mm²) 2x (0.25 2.5 mm²) 2x (24 14) 2x (24 14) 0.3 2.5 mm² 0.3 1.5 mm² 2.5 2.5 mm²	
finely stranded with core end processing     finely stranded without core end processing     at AWG cables solid     at AWG cables stranded  connectable conductor cross-section     solid     finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section     solid     stranded  Installation/ mounting/ dimensions  mounting position	2 x (0.25 1.5 mm²) 2x (0.25 2.5 mm²) 2x (24 14) 2x (24 14)  0.3 2.5 mm² 0.3 1.5 mm² 2.5 2.5 mm²	
finely stranded with core end processing     finely stranded without core end processing     at AWG cables solid     at AWG cables stranded     connectable conductor cross-section     solid     finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section     solid     stranded  Installation/ mounting/ dimensions	2 x (0.25 1.5 mm²) 2x (0.25 2.5 mm²) 2x (24 14) 2x (24 14) 0.3 2.5 mm² 0.3 1.5 mm² 2.5 2.5 mm²	
finely stranded with core end processing     finely stranded without core end processing     at AWG cables solid     at AWG cables stranded  connectable conductor cross-section     solid     finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section     solid     stranded  Installation/ mounting/ dimensions  mounting position  fastening method	2 x (0.25 1.5 mm²) 2x (0.25 2.5 mm²) 2x (24 14) 2x (24 14)  0.3 2.5 mm² 0.3 1.5 mm² 2.5 2.5 mm²  24 14  any screw and snap-on mounting onto 35 mm standard mounting rail	
finely stranded with core end processing     finely stranded without core end processing     at AWG cables solid     at AWG cables stranded     connectable conductor cross-section     solid     finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section     solid     stranded  Installation/ mounting/ dimensions  mounting position  fastening method height	2 x (0.25 1.5 mm²) 2x (0.25 2.5 mm²) 2x (24 14) 2x (24 14)  0.3 2.5 mm² 0.3 1.5 mm² 2.5 2.5 mm²  24 14  24 14  any screw and snap-on mounting onto 35 mm standard mounting rail 57 mm	
finely stranded with core end processing     finely stranded without core end processing     at AWG cables solid     at AWG cables stranded     connectable conductor cross-section         solid         finely stranded with core end processing         finely stranded without core end processing  AWG number as coded connectable conductor cross section         solid         stranded     Installation/ mounting/ dimensions     mounting position     fastening method     height     width	2 x (0.25 1.5 mm²) 2x (0.25 2.5 mm²) 2x (24 14) 2x (24 14)  0.3 2.5 mm² 0.3 1.5 mm² 2.5 2.5 mm²  24 14  any screw and snap-on mounting onto 35 mm standard mounting rail 57 mm 45 mm	
finely stranded with core end processing     finely stranded without core end processing     at AWG cables solid     at AWG cables stranded     connectable conductor cross-section         solid         finely stranded with core end processing         finely stranded without core end processing  AWG number as coded connectable conductor cross section         solid         stranded  Installation/ mounting/ dimensions  mounting position  fastening method height width depth	2 x (0.25 1.5 mm²) 2x (0.25 2.5 mm²) 2x (24 14) 2x (24 14)  0.3 2.5 mm² 0.3 1.5 mm² 2.5 2.5 mm²  24 14  24 14  any screw and snap-on mounting onto 35 mm standard mounting rail 57 mm 45 mm	
finely stranded with core end processing     finely stranded without core end processing     at AWG cables solid     at AWG cables stranded  connectable conductor cross-section     solid     finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section     solid     stranded  Installation/ mounting/ dimensions  mounting position fastening method height width depth required spacing	2 x (0.25 1.5 mm²) 2x (0.25 2.5 mm²) 2x (24 14) 2x (24 14)  0.3 2.5 mm² 0.3 1.5 mm² 2.5 2.5 mm²  24 14  24 14  any screw and snap-on mounting onto 35 mm standard mounting rail 57 mm 45 mm	
finely stranded with core end processing     finely stranded without core end processing     at AWG cables solid     at AWG cables stranded  connectable conductor cross-section     solid     finely stranded with core end processing     finely stranded without core end processing  AWG number as coded connectable conductor cross section     solid     stranded  Installation/ mounting/ dimensions  mounting position  fastening method height width depth required spacing     with side-by-side mounting	2 x (0.25 1.5 mm²) 2x (0.25 2.5 mm²) 2x (24 14) 2x (24 14)  0.3 2.5 mm² 0.3 1.5 mm² 2.5 2.5 mm²  24 14  24 14  any screw and snap-on mounting onto 35 mm standard mounting rail 57 mm 45 mm 73 mm	
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> <li>connectable conductor cross-section</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul> AWG number as coded connectable conductor cross section <ul> <li>solid</li> <li>stranded</li> </ul> Installation/ mounting/ dimensions mounting position fastening method <ul> <li>height</li> <li>width</li> <li>depth</li> </ul> required spacing <ul> <li>with side-by-side mounting</li> <li>forwards</li> </ul>	2 x (0.25 1.5 mm²) 2x (0.25 2.5 mm²) 2x (24 14) 2x (24 14)  0.3 2.5 mm² 0.3 1.5 mm² 2.5 2.5 mm²  24 14  24 14  any screw and snap-on mounting onto 35 mm standard mounting rail 57 mm 45 mm 73 mm	
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> <li>connectable conductor cross-section</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>AWG number as coded connectable conductor cross section</li> <li>solid</li> <li>stranded</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing</li> <li>with side-by-side mounting</li> <li>— forwards</li> <li>— backwards</li> </ul>	2 x (0.25 1.5 mm²) 2x (0.25 2.5 mm²) 2x (24 14) 2x (24 14)  0.3 2.5 mm² 0.3 1.5 mm² 2.5 2.5 mm²  24 14 24 14  any screw and snap-on mounting onto 35 mm standard mounting rail 57 mm 45 mm 73 mm  0 mm 0 mm	
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> <li>connectable conductor cross-section</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>AWG number as coded connectable conductor cross section</li> <li>solid</li> <li>stranded</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing</li> <li>with side-by-side mounting</li> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> </ul>	2 x (0.25 1.5 mm²) 2x (0.25 2.5 mm²) 2x (24 14) 2x (24 14)  0.3 2.5 mm² 0.3 1.5 mm² 2.5 2.5 mm²  24 14  24 14  any screw and snap-on mounting onto 35 mm standard mounting rail 57 mm 45 mm 73 mm  0 mm 0 mm 0 mm 0 mm	
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> <li>connectable conductor cross-section</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul> AWG number as coded connectable conductor cross section <ul> <li>solid</li> <li>stranded</li> </ul> Installation/ mounting/ dimensions mounting position fastening method <ul> <li>height</li> <li>width</li> <li>depth</li> </ul> required spacing <ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> </ul>	2 x (0.25 1.5 mm²) 2x (0.25 2.5 mm²) 2x (24 14) 2x (24 14)  0.3 2.5 mm² 0.3 1.5 mm² 2.5 2.5 mm²  24 14  24 14  any screw and snap-on mounting onto 35 mm standard mounting rail 57 mm 45 mm 73 mm  0 mm 0 mm 0 mm 0 mm 0 mm	

General Product Approval	EMC	Declaration of Conformity	
Certificates/ approvals			
relative humidity during operation	10 95 %		
during transport	-40 +85 °C		
<ul> <li>during storage</li> </ul>	-40 +85 °C		
<ul> <li>during operation</li> </ul>	-25 +60 °C		
ambient temperature			
installation altitude at height above sea level maximum	2 000 m		
Ambient conditions			
— at the side	0 mm		
— downwards	0 mm		
— upwards	0 mm		
— backwards	0 mm		
— forwards	0 mm		
for live parts			
— downwards	0 mm		
— at the side	0 mm		
— upwards	0 mm		
— backwards	0 mm		
— forwards	0 mm		









**Miscellaneous** 

**Test Certificates** 

Marine / Shipping

Type Test Certificates/Test Report











other

Confirmation

## **Further information**

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RP2025-2AP30

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RP2025-2AP30}$ 

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

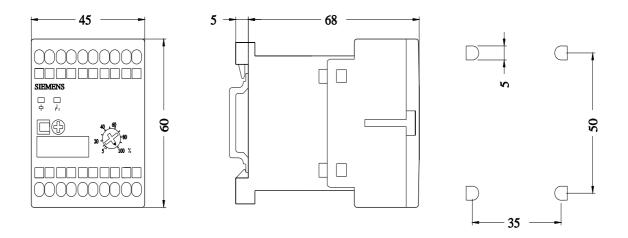
https://support.industry.siemens.com/cs/ww/en/ps/3RP2025-2AP30

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RP2025-2AP30&lang=en

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3RP2025-2AP30/manual



last modified: 12/9/2021 🖸