## **SIEMENS**

**Data sheet** 3RP2540-2AB30



Timing relay, electronic OFF delay without control signal or smooth passing make contact non-volatile 7 time ranges 0.05...600 s 24 V AC/DC, 1 change-over contact with LED, Spring-type terminal (push-in)

product brand name product designation design of the product

## product type designation

SIRIUS

timing relay

rückfallverzögert ohne Steuersignal, nullspannungssicher,

einschaltwischend

3RP25

General technical data		
product component		
<ul> <li>relay output</li> </ul>	Yes	
<ul> <li>semi-conductor output</li> </ul>	No	
product extension required remote control	No	

product extension optional remote control 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

surge voltage resistance rated value

protection class IP

degree of pollution

shock resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at

230 V typical adjustable time

adjustable time note relative setting accuracy relating to full-scale value

thermal current minimum ON period recovery time

reference code according to IEC 81346-2

relative repeat accuracy

influence of the surrounding temperature

power supply influence **Substance Prohibitance (Date)** 

2 W

300 V

2.5 kV

3

4 000 V

IP20

11g / 15 ms

10 ... 55 Hz / 0.35 mm

10 000 000 100 000

0.05 ... 600 s

minimum value at function N = 0.5 s

5 %; +/-5 A 250 ms 250 ms K

1 %; +/-

1% in the whole temperature range to the set runtime

1% in the whole voltage range to the set runtime

09/12/2014

## 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

control supply voltage frequency 1

control supply voltage 1 • at DC rated value

AC/DC

24 V 24 V

50 ... 60 Hz

24 V

operating range factor control supply voltage rated value at DC   initial value on DC  initia		
Initial value Initial value Operating range factor control supply voltage rated value at A.C at 50 kt Initial value Initial value Operating range factor control supply voltage rated value at A.C at 50 kt Initial value Operating range factor control supply voltage rated value at A.C at 60 kt Initial value Operating range factor control supply voltage rated value at A.C at 60 kt Initial value Operating range factor control supply voltage rated value at A.C at 60 kt Initial value Operating range factor control supply voltage rated value at A.C at 7 kt Initial value Operating range factor control supply voltage rated value at A.C at 7 kt Initial value Operating range factor control supply voltage rated value at A.C at 7 kt Initial value Operating range factor control supply voltage rated value at 7 kt Initial value Operating range factor control supply voltage rated value at 7 kt Initial value Operating range factor control supply voltage rated value at 7 kt Initial value Operating range factor control supply voltage rated value at 7 kt Initial value Operating range factor control supply voltage rated value at 7 kt Initial value Operating range factor control supply voltage rated value at 7 kt Initial value Operating range factor control supply voltage rated value at 7 kt Initial value Operating range factor control signal Operating range factor range value at 7 kt Operating range factor control signal Operating range factor control signal Operation of interval raley with control signal Operation of interval raley vith control signal Operation of interval rale vith control s		
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value at AC at 50 Hz  • Initial value  • Or Or Gelay  • Or Or Gelay  • Or Or Gelay  • Ves  • passing make contact (ves  • passing symmetrically with interval start (ves  • Initial value  • Initial		1.1
Initial value Usine a 11  Initial value Ini		
* full-scale value     * operating range factor control supply voltage rated value at AC at 69 Hz     * initial value     * full-scale value     * initial value     * of 24 V     * 2 A     * duration of innush current peak     * at 24 V     * at 24 V     * switching Function  **Switching Function  **Switching Function  **ON-delay/instantaneous contact     * ON-delay/instantaneous contact     * on ON-delay/instantaneous contact     * passing make contact/instantaneous contact     * passing make contact/instantaneous contact     * passing make contact/instantaneous contact     * on ON-delay/instantaneous     * passing make contact/instantaneous contact     * on ON-delay/instantaneous     * passing make contact/instantaneous     * passing symmetricaly with interval stant     * passing symmetricaly with interval stant     * stantinataneous     * astantinataneous     * on On-delay privatantaneous     * o		0.05
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at 24 V  at 24 V  Switching Function  switching function  • ON-delay   No  • Desaing make contact   No  • passing make contact   No  • OFF delay   Yes  switching function  • flashing symmetrically with interval start   No  • flashing symmetrically with pulse start   No  • star-dela circuit   No  • switching function   No  • passing break contact   No  • passing break contact   No  • passing break contact   No  • pulse-shaping   No  • pulse-shaping make contact   No  • passing make contact   No  • passing make contact   No  • pulse-shaping   No  • pulse-shaping make contact   No  • passing make contact   No  • pulse-shaping   No  • pulse-sh		0.4
* at 24 V Switching Function  *ON-delay/instantaneous contact  *ON-delay/instantaneous contact  *Peassing make contact/instantaneous  *Insahing symmetrically with interval start  *Insahing symmetrically with pulse  *Insahing symmetrically with pulse  *Insahing asymmetrically with pulse start  *Insahing asymmetrically with pulse start  *Insahing asymmetrically with pulse start  *Insahing asymmetrically with interval start  *Insahing asymmetrically with pulse  *Insah		2 A
Switching Function  switching function  • ON-delay instantaneous contact • ON-delay instantaneous contact • passing make contact instantaneous contact • passing make contact/instantaneous contact • OFF delay  switching function • flashing symmetrically with interval start • flashing symmetrically with pulse • startivinstantaneous • flashing symmetrically with pulse start • flashing asymmetrically with pulse • stard-dela circuit with delay time • star-delat circuit with delay time • star-delat circuit with delay time • star-delat circuit with control signal • additive ON-delay No • OFF delay • passing break contact/instantaneous • No • OFF delay • pulse delayed • pulse d		
witching function  ON-delay/instantaneous contact  No ON-delay/instantaneous contact  Passing make contact (No OFF delay (No OFF		1 ms
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OFF delay switching function  flashing symmetrically with interval start/instantaneous  flashing symmetrically with pulse start/instantaneous  flashing symmetrically with pulse startinstantaneous  flashing symmetrically with pulse start  flashing asymmetrically with pulse start  flashing asymmetrically with pulse start  substanting asymmetrically with pulse start  flashing asymmetrically with pulse start  flashing asymmetrically with pulse start  substanting asymmetrically with pulse start  flashing asymmetrically with pulse start  No  switching function  star-delta circuit with delay time  star-delta circuit with delay time  star-delta circuit with control signal  additive ON-delay  passing break contact/instantaneous  OFF delay  OFF delay  OFF delay/instantaneous  pulse delayed/instantaneous  pulse delayed/instantaneous  pulse shaping  pulse-shaping  pulse-shaping  pulse-shaping  pulse-shapinginstantaneous  No  ON-delay/OFF-delay/instantaneous  No  ON-delay/OFF-delay/instantaneous  No  oN-delay/OFF-delay/instantaneous  No  on-delay/OFF-delay/instantaneous  on-delay/OFF-delay/instantaneous  on-delay/OFF-delay/instantaneous  No  osadditive ON-delay/instantaneous contact  passing make contact/instantaneous contact  retrotriggerable with deactivated control signal  retrotriggerable with switched-on control signal  Short-circuit protection  design of the fuse link for short-circuit protection of the auxiliary switch required  Auxillary circuit  material of switching  instantaneous contact  olayed switching  olayed sw	<ul> <li>passing make contact</li> </ul>	Yes
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• flashing symmetrically with interval start	OFF delay	Yes
start/instantaneous  • flashing symmetrically with interval start  • flashing symmetrically with pulse start/instantaneous  • flashing symmetrically with pulse start  • flashing asymmetrically with pulse start  vo  **switching function  • star-delta circuit with delay time • star-delta circuit with control signal  • additive ON-delay  • passing break contact  • passing break contact  • passing break contact  • passing break contact  • pulse delayed  • OFF delay  • OFF delay  • pulse delayed  • pulse delayed  • pulse shaping  • pulse-shaping instantaneous  • oth-delay/OFF-delay/instantaneous  • oth-delay/OFF-delay/instantaneous  • oth-delay/OFF-delay/instantaneous  • oth-delay/OFF-delay/instantaneous  • oth-delay/OFF-delay/instantaneous  • passing make contact  • passing make contact  • passing make contact  • passing make contact  • retrotriggerable with deactivated control signal  • retrotriggerable with deactivated control signal  • retrotriggerable with switched-on control signal  • retrotriggerable with switched-on control signal  • retrotriggerable with deactivated control signal  • retrotriggerable with switched-on control signal  • retrotriggerable with deactivated control signal  • retrotriggerable with switched-on control signal  • retrotriggerable with switche	switching function	
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start/instantaneous  • flashing symmetrically with pulse start  • flashing asymmetrically with interval start  • flashing asymmetrically with pulse start  • flashing asymmetrically with pulse start  • flashing asymmetrically with pulse start  • star-delta circuit with delay time  • star-delta circuit No  • star-delta circuit No  • star-delta circuit No  • star-delta circuit No  • passing break contact No  • passing break contact  • passing break contact  • passing break contact/instantaneous  • OFF delay  • OFF delay  • OFF delay  • pulse delayed  • pulse delayed  • pulse delayed/instantaneous  • pulse-shaping/instantaneous  • pulse-shaping/instantaneous  • oN-delay/OFF-delay/instantaneous  • ON-delay/OFF-delay/instantaneous  • passing make contact  • passing make contact  • passing make contact/instantaneous contact  • passing make contact/instantaneous contact  • retrotriggerable with deactivated control signal  • retrotriggerable with switched-on control signal  • retrotriggerable with sw	<ul> <li>flashing symmetrically with interval start</li> </ul>	No
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flashing asymmetrically with interval start         (lashing asymmetrically with pulse start         (lashing asymmetrically with canditive start         (lashing asymmetrically with start         (lashing asymmetrically with start         (lashing asymmetrically with start         (lashing asymmetrically with start and start         (lashing asymmetrically with start and start asymmetrically asymmetrically asymmetrically with start and start asymmetrically asymmetrica		
• flashing asymmetrically with pulse start  switching function  • star-delta circuit with delay time  • star-delta circuit with delay time  • star-delta circuit with control signal  • additive ON-delay  • passing function with contact  • passing break contact  • passing break contact  • passing break contact/instantaneous  • OFF delay  • Pulse delayed  • pulse delayed  • pulse delayed/instantaneous  • pulse-shaping  • pulse-shaping  • pulse-shaping/instantaneous  • Delay/OFF-delay/instantaneous  • ON-delay/instantaneous  • ON-delay/instantaneous  • ON-delay/instantaneous  • Delay/OFF-delay/instantaneous  • No  • passing make contact  • passing make contact  • passing make contact/instantaneous contact  switching function of interval relay with control signal  • retrotriggerable with deactivated control  signal/instantaneous contact  • retrotriggerable with switched-on control signal  • retrotriggerable with switched-on control  signal/instantaneous contact  • retroggerable with deactivated control signal  • retrotriggerable with deactivated control signal  • retrotriggerable with deactivated control  signal/instantaneous contact  • retroggerable with deactivated control signal  • retrotriggerable with deactivated control  signal/instantaneous contact  • retroggerable with deactivated control  signal/instantaneous contact  • retroggerable with deactivated control  signal/instantaneous contact  • retroggerable with deactivated control  signal/instantaneous  • retrotriggerable with deactivated control  signal/instantaneous  • retrotriggerable with deacti		
switching function  • star-delta circuit with delay time  • star-delta circuit  **switching function with control signal  • additive ON-delay  • passing break contact  • passing break contact/instantaneous  • OFF delay  • OFF delay  • OFF delay/instantaneous  • pulse delayed  • pulse delayed  • pulse shaping  • pulse-shaping  • pulse-shaping/instantaneous  • additive ON-delay/instantaneous  • No  • pulse-shaping No  • retrotrigerable with canct/instantaneous  • passing make contact  • passing make contact  • passing make contact No  switching function of interval relay with control signal  • retrotriggerable with deactivated control  signal/instantaneous contact  • retrotriggerable with switched-on control signal  • retrotriggerable with switched-on control signal  • retrotriggerable with switched-on control  signal/instantaneous contact  • retriggerable with switched-on control signal  • retrotriggerable with switched-on control  signal/instantaneous contact  • retriggerable with switched-on control  signal/instantaneous contact  • retrotriggerable with switched-on control  signal/instantaneous  • retrotriggerable with switched-on control  •		No
star-delta circuit with delay time     star-delta circuit     switching function with control signal     o additive ON-delay     o passing break contact     o passing break contact/instantaneous     o OFF delay     o OFF delay/instantaneous     o OFF delay/instantaneous     o pulse delayed     o pulse delayed     pulse delayed     pulse delayed, instantaneous     o pulse-shaping     o pulse-shaping/instantaneous     o pulse-shaping/instantaneous     o pulse-shaping/instantaneous     o pulse-shaping/instantaneous     o ON-delay/OFF-delay/instantaneous     o ON-delay/OFF-delay/instantaneous     o on-delay/OFF-delay/instantaneous     o on-delay/OFF-delay/instantaneous     o on-delay/OFF-delay/instantaneous     o on-delay/OFF-delay/instantaneous contact     o passing make contact/instantaneous contact     o passing make contact/instantaneous contact     oretrotriggerable with deactivated control signal     oretrotriggerable with switched-on control     signal/instantaneous contact     oretriggerable with deactivated control signal     oretrotriggerable with switched-on control     isgnal/instantaneous contact     oretriggerable with switched-on control     isgnal/instantaneous contact     oretriggerable with switched-on control     isgnal/instantaneous contact     oretrotriggerable with switched-on control     isgnal/instantaneous contact     oretrotriggerable with switched-on control     isgnal/instantaneous contact     oretrotriggerable with switched-on control     isgnal/instantaneous     oretrotriggerable with switched-on control     oretrotriggerable with switched-on control     isgnal/instantaneous     oretrotriggerable with switched-on control     oretrotrigge		No
star-delta circuit     switching function with control signal     additive ON-delay     passing break contact     passing break contact/instantaneous     OFF delay     OFF delay     No     oFF delay     No     pulse delayed     No     pulse delayed/instantaneous     pulse-shaping     pulse-shaping     pulse-shaping     pulse-shaping/instantaneous     oAdditive ON-delay/instantaneous     oAdditive ON-delay/inst	switching function	
switching function with control signal  additive ON-delay  passing break contact  passing break contact/instantaneous  OFF delay  OFF delay  OFF delay  No  OFF delay  No  pulse delayed  pulse delayed  pulse-shaping  No  pulse-shaping  No  outlee-shaping/instantaneous  No  switching function of interval relay with control signal  outlee-shaping-sha	<ul> <li>star-delta circuit with delay time</li> </ul>	No
additive ON-delay passing break contact passing break contact/instantaneous OFF delay OFF delay OFF delay/instantaneous pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping ON-delay/instantaneous No oHulse-shaping/instantaneous No oHulse-shaping/instantaneous No oHulse-shaping/instantaneous No oHo-delay/instantaneous No oN-delay/OFF-delay/instantaneous No oN-delay/OFF-delay/instantaneous No osassing make contact No sassing make contact/instantaneous contact switching function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal/instantaneous contact retrotriggerable with switched-on control signal/instantaneous contact retrotriggerable with switched-on control signal/instantaneous contact retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal/instantaneous contact retrotriggerable with for short-circuit protection of the auxiliary circuit protection  design of the fuse link for short-circuit protection of the auxiliary switch required  Auxiliary circuit  material of switching contacts delayed switching olimatory oli	star-delta circuit	No
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passing break contact/instantaneous OFF delay OFF delay OFF delay/instantaneous pulse delayed pulse delayed pulse delayed pulse-shaping No pulse-shaping/instantaneous Additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous ON-delay/OFF-delay/instantaneous ON-delay/OFF-delay/instantaneous ON-delay/OFF-delay/instantaneous No passing make contact No passing make contact No switching function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal retrotriggerable with switched-on control Signal/instantaneous contact retrotriggerable with deactivated control signal/instantaneous contact for retrotriggerable with switched-on control signal/instantaneous contact Fortiggerable with deactivated control signal retrotriggerable with deactivated control signal for the fuse link for short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required  Auxiliary circuit material of switching contacts delayed switching olimitantaneous contact olimitantaneous contact olimitantaneous contact olimitantaneous contact olimitantaneous contact olimitantaneous contact	<ul> <li>additive ON-delay</li> </ul>	No
OFF delay OFF delay/instantaneous OFF delay/instantaneous OPF delay/instantaneous OPF delay/instantaneous OPUSE delayed/instantaneous OPUSE-shaping ONO OPUSE-shaping ONO ON-delay/instantaneous ONO ON-delay/OFF-delay/instantaneous ONO ON-delay/OFF-delay/instantaneous ONO ON-delay/OFF-delay/instantaneous ONO ON-delay/OFF-delay/instantaneous ONO ONO ONO ONO ONO ONO ONO ONO ONO ON	<ul> <li>passing break contact</li> </ul>	No
OFF delay/instantaneous  pulse delayed  pulse delayed/instantaneous  pulse-shaping  pulse-shaping  pulse-shaping/instantaneous  additive ON-delay/instantaneous  ON-delay/OFF-delay/instantaneous  No  passing make contact  passing make contact  retrotriggerable with deactivated control signal  retrotriggerable with switched-on control signal  retrotriggerable with switched-on control signal  retrotriggerable with deactivated control  signal/instantaneous contact  retriggerable with deactivated control  signal/instantaneous contact  retriggerable with deactivated control signal  No  Short-circuit protection  design of the fuse link for short-circuit protection of the auxiliary circuit  material of switching contacts  delayed switching  design of NC contacts  delayed switching  einstantaneous contact  0	<ul> <li>passing break contact/instantaneous</li> </ul>	No
<ul> <li>pulse delayed</li> <li>pulse eshaping</li> <li>No</li> <li>pulse-shaping/instantaneous</li> <li>No</li> <li>pulse-shaping/instantaneous</li> <li>No</li> <li>additive ON-delay/instantaneous</li> <li>No</li> <li>ON-delay/OFF-delay/instantaneous</li> <li>No</li> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> <li>passing make contact/instantaneous contact</li> <li>value of interval relay with control signal</li> <li>retrotriggerable with deactivated control</li> <li>signal/instantaneous contact</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control</li> <li>signal/instantaneous contact</li> <li>retrotriggerable with deactivated control signal</li> <li>No</li> <li>signal/instantaneous contact</li> <li>retriggerable with deactivated control signal</li> <li>No</li> <li>Short-circuit protection</li> <li>design of the fuse link for short-circuit protection of the auxiliary switch required</li> <li>Auxiliary circuit</li> <li>material of switching contacts</li> <li>delayed switching</li> <li>o</li> <li>instantaneous contact</li> <li>0</li> <li>instantaneous contact</li> </ul>	OFF delay	No
<ul> <li>pulse-shaping</li> <li>pulse-shaping/instantaneous</li> <li>pulse-shaping/instantaneous</li> <li>No</li> <li>pulse-shaping/instantaneous</li> <li>No</li> <li>additive ON-delay/instantaneous</li> <li>No</li> <li>ON-delay/OFF-delay/instantaneous</li> <li>No</li> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> <li>passing make contact/instantaneous contact</li> <li>retrotriggerable with deactivated control</li> <li>signal/instantaneous contact</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control</li> <li>signal/instantaneous contact</li> <li>retriggerable with deactivated control signal</li> <li>No</li> <li>signal/instantaneous contact</li> <li>retriggerable with deactivated control signal</li> <li>No</li> <li>Short-circuit protection</li> <li>design of the fuse link for short-circuit protection of the auxiliary switch required</li> <li>Auxiliary circuit</li> <li>material of switching contacts</li> <li>delayed switching</li> <li>delayed switching</li> <li>delayed switching</li> <li>instantaneous contact</li> <li>0</li> </ul>	OFF delay/instantaneous	No
pulse-shaping pulse-shaping/instantaneous pulse-shaping/instantaneous additive ON-delay/instantaneous No ON-delay/OFF-delay/instantaneous passing make contact passing make contact/instantaneous contact switching function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal/instantaneous contact retrotriggerable with deactivated control 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  Auxiliary circuit material of switching contacts delayed switching olimitantaneous contact olimitantaneous contact  AgSnO2 number of NC contacts delayed switching olimitantaneous contact olimitantaneous contact	pulse delayed	No
pulse-shaping pulse-shaping/instantaneous pulse-shaping/instantaneous additive ON-delay/instantaneous No ON-delay/OFF-delay/instantaneous passing make contact passing make contact/instantaneous contact switching function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal/instantaneous contact retrotriggerable with deactivated control 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  Auxiliary circuit material of switching contacts delayed switching olimitantaneous contact olimitantaneous contact  AgSnO2 number of NC contacts delayed switching olimitantaneous contact olimitantaneous contact	<ul> <li>pulse delayed/instantaneous</li> </ul>	No
pulse-shaping/instantaneous     additive ON-delay/instantaneous     ON-delay/OFF-delay/instantaneous     No     passing make contact     passing make contact/instantaneous contact     passing make contact/instantaneous contact     passing make contact/instantaneous contact     vertortiggerable with deactivated control signal     retrotriggerable with switched-on control signal     retrotriggerable with switched-on control signal     retrotriggerable with switched-on control signal     retrotriggerable with deactivated control signal     retrotriggerable with deactivated control signal     No     Short-circuit protection  design of the fuse link for short-circuit protection of the auxiliary switch required  Auxiliary circuit  material of switching contacts     odelayed switching     delayed switching     instantaneous contact     odelayed switching     instantaneous contact     odelayed switching     instantaneous contact     odelayed switching     instantaneous contact     odelayed switching     odelayed switching     instantaneous contact		No
additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact passing make contact/instantaneous contact No  switching function of interval relay with control signal retrotriggerable with deactivated control signal retrotriggerable with switched-on control signal retrotriggerable with switched-on control signal retrotriggerable with deactivated control signal retrotriggerable with deactivated control signal No  Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required  Auxiliary circuit material of switching contacts number of NC contacts delayed switching einstantaneous contact  delayed switching einstantaneous contact  o  o  o  o  o  o  o  o  o  o  o  o  o		No
ON-delay/OFF-delay/instantaneous passing make contact passing make contact passing make contact/instantaneous contact passing make contact/instantaneous contact passing make contact/instantaneous contact passing function of interval relay with control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal retrotriggerable with switched-on control 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  Auxiliary circuit material of switching contacts number of NC contacts delayed switching instantaneous contact  delayed switching instantaneous contact  O  No  Short-circuit protection  design of the fuse link for short-circuit protection of the auxiliary switch required  Auxiliary circuit  material of switching contacts of elayed switching instantaneous contact  O  O  O  O  O  O  O  O  O  O  O  O  O		
<ul> <li>passing make contact</li> <li>passing make contact/instantaneous contact</li> <li>passing make contact/instantaneous contact</li> <li>switching function of interval relay with control signal</li> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control signal/instantaneous contact</li> <li>retriggerable with deactivated control signal</li> <li>No</li> </ul> Short-circuit protection <ul> <li>design of the fuse link for short-circuit protection of the auxiliary switch required</li> </ul> Auxiliary circuit <ul> <li>material of switching contacts</li> <li>number of NC contacts</li> <li>delayed switching</li> <li>instantaneous contact</li> <li>0</li> </ul> instantaneous contact <ul> <li>0</li> </ul>		
<ul> <li>passing make contact/instantaneous contact</li> <li>switching function of interval relay with control signal</li> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control signal No</li> <li>retrotriggerable with switched-on control signal/instantaneous contact</li> <li>retriggerable with deactivated control signal</li> <li>retriggerable with deactivated control signal</li> <li>Short-circuit protection</li> <li>design of the fuse link for short-circuit protection of the auxiliary switch required</li> <li>Auxiliary circuit</li> <li>material of switching contacts</li> <li>delayed switching</li> <li>elayed switching</li> <li>enstantaneous contact</li> <li>0</li> </ul>		
switching function of interval relay with control signal  • retrotriggerable with deactivated control signal/instantaneous contact  • retrotriggerable with switched-on control signal • retrotriggerable with switched-on control 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  Auxiliary circuit  material of switching contacts number of NC contacts • delayed switching • instantaneous contact  • instantaneous contact  0		
<ul> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with switched-on control signal/instantaneous contact</li> <li>retriggerable with deactivated control signal</li> <li>retriggerable with deactivated control signal</li> <li>Short-circuit protection</li> <li>design of the fuse link for short-circuit protection of the auxiliary switch required</li> <li>Auxiliary circuit</li> <li>material of switching contacts</li> <li>delayed switching</li> <li>instantaneous contact</li> <li>instantaneous contact</li> </ul>		
signal/instantaneous contact  • retrotriggerable with switched-on control signal • retrotriggerable with switched-on control 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  Auxiliary circuit  material of switching contacts number of NC contacts • delayed switching • instantaneous contact  0		No
retrotriggerable with switched-on control signal     retrotriggerable with switched-on control     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  Auxiliary circuit  material of switching contacts     number of NC contacts     edelayed switching     instantaneous contact  in retrotriggerable with switched-on control  No  No  fuse gL/gG: 4 A  AgSnO2  AgSnO2  o instantaneous contact  O  O  O  O  O  O  O  O  O  O  O  O  O		
<ul> <li>retrotriggerable with switched-on control signal/instantaneous contact</li> <li>retriggerable with deactivated control signal</li> <li>No</li> <li>Short-circuit protection</li> <li>design of the fuse link for short-circuit protection of the auxiliary switch required</li> <li>Auxiliary circuit</li> <li>material of switching contacts</li> <li>delayed switching</li> <li>instantaneous contact</li> <li>0</li> </ul>	<u> </u>	No
signal/instantaneous contact  • retriggerable with deactivated control signal  Short-circuit protection  design of the fuse link for short-circuit protection of the auxiliary switch required  Auxiliary circuit  material of switching contacts number of NC contacts  • delayed switching • instantaneous contact  0		No
Short-circuit protection  design of the fuse link for short-circuit protection of the auxiliary switch required  Auxiliary circuit  material of switching contacts number of NC contacts  • delayed switching • instantaneous contact  0		
design of the fuse link for short-circuit protection of the auxiliary switch required  Auxiliary circuit  material of switching contacts number of NC contacts  • delayed switching • instantaneous contact  0	<ul> <li>retriggerable with deactivated control signal</li> </ul>	No
design of the fuse link for short-circuit protection of the auxiliary switch required  Auxiliary circuit  material of switching contacts number of NC contacts  • delayed switching • instantaneous contact  0	Short-circuit protection	
Auxiliary circuit  material of switching contacts  number of NC contacts  • delayed switching  • instantaneous contact  0	design of the fuse link for short-circuit protection of the	fuse gL/gG: 4 A
material of switching contacts number of NC contacts  • delayed switching • instantaneous contact  AgSnO2  0  0		
number of NC contacts  • delayed switching • instantaneous contact  0		Agen02
<ul> <li>delayed switching</li> <li>instantaneous contact</li> <li>0</li> </ul>		Ayonoz
• instantaneous contact 0		
number of NU contacts		U
	number of NO contacts	

<ul><li>delayed switching</li></ul>	0
<ul> <li>instantaneous contact</li> </ul>	0
number of CO contacts	
<ul> <li>delayed switching</li> </ul>	1
instantaneous contact	0
operational current of auxiliary contacts at AC-15	
•	0.4
● 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
contact reliability of auxiliary contacts	V, 5 mA)
switching capacity current with inductive load	0.01 3 A
	0.01 3 A
Inputs/ Outputs	
product function	
at the relay outputs switchover delayed/without	No
delay	
non-volatile	Yes
Electromagnetic compatibility	
	1. (1.1.1.1.)
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	
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV network connection / 1 kV control connection
due to conductor-earth surge according to IEC	2 kV
61000-4-5	
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
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
	+ KV contact discharge / 5 KV all discharge
Safety related data	
protection class IP on the front according to IEC	IP20
protection class IP on the front according to IEC 60529	
protection class IP on the front according to IEC 60529 type of insulation	IP20 Basic insulation
protection class IP on the front according to IEC 60529	
protection class IP on the front according to IEC 60529 type of insulation	Basic insulation
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals	Basic insulation none
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary	Basic insulation
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  Connections/ Terminals product component removable terminal for auxiliary and control circuit	Basic insulation none  Yes
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit	Basic insulation none
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  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	Basic insulation none  Yes  spring-loaded terminals (push-in)
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  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	Pasic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm²
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  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	Pasic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm²
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  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	Pasic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm²
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protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  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	Pasic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  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 • at AWG cables solid	Pasic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²  20 12
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  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 • at AWG cables solid • at AWG cables stranded connectable conductor cross-section	Pasic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²  20 12  20 12
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  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 • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid	Pasic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²  20 12  20 12  0.5 4 mm²
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  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  • at AWG cables solid  • at AWG cables stranded  connectable conductor cross-section  • solid  • finely stranded with core end processing	Pasic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²  20 12  20 12  0.5 4 mm²  0.5 2.5 mm²
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  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 • at AWG cables solid • at 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	Pasic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²  20 12  20 12  0.5 4 mm²
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  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 • at AWG cables solid • at AWG cables stranded connectable conductor cross-section  • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing	Pasic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²  20 12  20 12  0.5 4 mm²  0.5 2.5 mm²
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  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 • at AWG cables solid • at AWG cables stranded connectable conductor cross-section  • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing AWG number as coded connectable conductor cross section	Pasic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12  0.5 4 mm² 0.5 4 mm² 0.5 4 mm²
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  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 • at AWG cables solid • at AWG cables stranded  connectable conductor cross-section  • solid  • finely stranded with core end processing • finely stranded with core end processing  • finely stranded without core end processing  • finely stranded without core end processing  • finely stranded without core end processing  AWG number as coded connectable conductor cross section  • solid	Pasic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12  0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 0.5 4 mm²
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  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 • at AWG cables solid • at AWG cables stranded connectable conductor cross-section  • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing AWG number as coded connectable conductor cross section	Pasic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12  0.5 4 mm² 0.5 4 mm² 0.5 4 mm²
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  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 • at AWG cables solid • at AWG cables stranded  connectable conductor cross-section  • solid  • finely stranded with core end processing • finely stranded with core end processing  • finely stranded without core end processing  • finely stranded without core end processing  • finely stranded without core end processing  AWG number as coded connectable conductor cross section  • solid	Pasic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12  0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 0.5 4 mm²
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  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	Pasic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²  20 12  20 12  0.5 4 mm²  0.5 4 mm²  0.5 4 mm²  0.5 4 mm²  0.5 2.5 mm²  0.5 2.5 mm²  0.5 2.5 mm²
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  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 • at AWG cables solid • at AWG cables stranded connectable conductor cross-section  • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section  • solid • stranded Installation/ mounting/ dimensions mounting position	Pasic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²  20 12  20 12  0.5 4 mm²  0.5 4 mm²  0.5 4 mm²  0.5 4 mm²  0.5 2.5 mm²  0.5 2.5 mm²  0.5 2.5 mm²  0.5 4 mm²
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  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 • at AWG cables solid • at AWG cables stranded  connectable conductor cross-section  • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section  • solid • stranded  Installation/ mounting/ dimensions  mounting position fastening method	Pasic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12 20 12  0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm²
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  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 • 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	Pasic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12  0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 0.7 2.5 mm² 0.8 2.5 mm² 0.9 12  20 12  any screw and snap-on mounting onto 35 mm DIN rail 100 mm
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  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 • at AWG cables solid • at AWG cables stranded  connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded with core end processing  AWG number as coded connectable conductor cross section • solid • stranded  Installation/ mounting/ dimensions  mounting position fastening method height width	Pasic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²  20 12  20 12  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²  20 12  20 12  20 12
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  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	Pasic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12 20 12  0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm²
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  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 • at AWG cables solid • at AWG cables stranded  connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded with core end processing  AWG number as coded connectable conductor cross section • solid • stranded  Installation/ mounting/ dimensions  mounting position fastening method height width	Pasic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²  20 12  20 12  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²  20 12  20 12  20 12
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  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	Pasic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 20 12 20 12  0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 0.5 4 mm²
protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1  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	Pasic insulation none  Yes  spring-loaded terminals (push-in)  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²  20 12  20 12  0.5 4 mm²  0.5 2.5 mm²  0.5 4 mm²  20 12  20 12  20 12

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





Confirmation







**EMC** 

**Declaration of Conformity** 

**General Product Approval** 

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other







Confirmation

## **Further information**

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RP2540-2AB30

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RP2540-2AB30}$ 

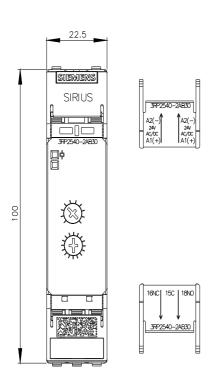
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

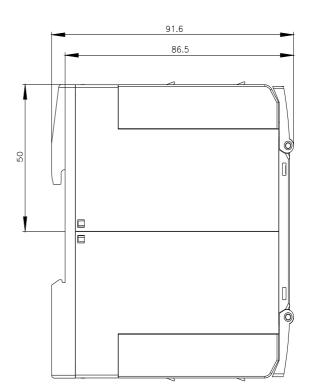
https://support.industry.siemens.com/cs/ww/en/ps/3RP2540-2AB30

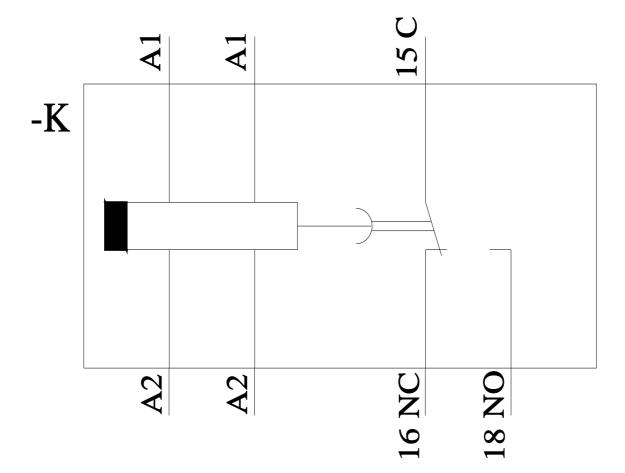
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RP2540-2AB30&lang=en

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3RP2540-2AB30/manual







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