## **SIEMENS**

Data sheet 3RP2005-1AQ30



Timing relay, electronic Multifunction, 8 functions 1 change-over contact 24 V AC/DC, 100 to 127 V AC at 50/60 Hz AC 0.05 s to 100 h Overall width 45 mm screw terminal

product brand name	SIRIUS
product designation	timing relay
design of the product	Multifunctional
product type designation	3RP20
General technical data	
product component	
relay output	Yes
• semi-conductor output	No
product extension required remote control	No
product extension optional remote control	No
power loss [W] maximum	2 W
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	300 V
test voltage for isolation test	2 kV
degree of pollution	3
surge voltage resistance rated value	4 000 V
shock resistance according to IEC 60068-2-27	11g / 15 ms
vibration resistance according to IEC 60068-2-6	10 55 Hz / 0.35 mm
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
adjustable time	0.05 s 100 h
relative setting accuracy relating to full-scale value	5 %; +/-
thermal current	5 A
minimum ON period	35 ms
recovery time	150 ms
reference code according to IEC 81346-2	K
relative repeat accuracy	1 %; +/-
influence of the surrounding temperature	±5 %
power supply influence	±1 %
Substance Prohibitance (Date)	05/01/2012
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
Weight	0.121 kg
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
• at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
control supply voltage 2 at AC	
• at 50 Hz	100 127 V

control supply vottage frequency 1         50 - 80 Hz           cycertaing range factor control supply vottage rated value 4 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -	● at 60 Hz	100 127 V
operating range factor control supply voltage rated value at En III and value (III and value) (III and	control supply voltage frequency 1	50 60 Hz
initial value in		24 V
# full-scale value		
Coperating range factor control supply voltage rated value at Act at 50 Hz.   Initial value   0,85   1.1     Operating range factor control supply voltage rated value at Act at 60 Hz.     Initial value   0,85   1.1     Initial value   0,85   1.1     Initial value   0,85   1.1     Initial value   0,85   1.1     Ves	initial value	0.85
AC at 50 Hz  initial value  initial value  full-scale value  initial value  initi	full-scale value	1.1
A fail cade value operating range factor control supply voitage rated value at A a 6 9147.  initial value final value of 1.1  witching function  **ON-delay function  **ON-delay final function on the final value of the fina		
Control prompt   Factor control supply voltage rated value at 2 de 10 ft 2	initial value	
AC at 60 Hz  initial value  6 lid scale value  Stutching Function  Switching Function  O N-delay  O N-delayinstantaneous contact  in passing make contact  passing make contact  in Sahing symmetrically with interval startinestantaneous  file shahing symmetrically with interval startinestantaneous  file shahing symmetrically with interval startinestantaneous  file shahing symmetrically with interval start  file shahing symmetrically with pulse startinistantaneous  file shahing symmetrically with pulse start  file shahing asymmetrically with pulse shahing asymmetrically with pu		1.1
• full-scale value  Switching Function  • ON-delay function  • ON-delay resistantaneous contact No No Passing make contact Yes No	AC at 60 Hz	
Switching Function  • O'N-delay function  • O'N-delay function  • passing make contact  • passing make contact or the standard of the standard		
switching function  • ON-delay instantaneous contact  • ON-delay make contact  • passing make contact instantaneous contact  • passing make contact instantaneous contact  • passing make contact instantaneous contact  • OFF delay  switching function  • flashing symmetrically with interval start instantaneous  • flashing symmetrically with interval start  • flashing symmetrically with just estart  • flashing asymmetrically with just estart  • flashing asymmetr		1.1
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passing make contact/instantaneous contact of Fir delay withching function flashing symmetrically with interval start/instantaneous flashing symmetrically multipase start/instantaneous flashing symmetrically multipase start/instantaneous flashing asymmetrically with pulse start flashing asymmetrically with control signal flashing asymmetrically with control signal flashing and contact flashing asymmetrically with control signal flashing asymmetrically with evidence on control signal flashing asymmetrically with ev		
OFF delay  No  switching function  Inashing symmetrically with interval start / Yes  Inashing symmetrically with pulse start / Yes  Inashing symmetrically with pulse start / No  Inashing symmetrically with pulse start / No  Inashing asymmetrically with pulse		
### Stabing symmetrically with interval start/instantaneous   flashing symmetrically with pulse start   Yes	. •	
• flashing symmetrically with interval start	<u> </u>	INU
• flashing symmetrically with interval start • flashing symmetrically with pulse start in No • flashing symmetrically with pulse start • flashing asymmetrically with pulse start • No • stard-elta circuit with delay time • stard-elta circuit with delay time • stard-elta circuit with delay time • stard-elta circuit with decortor signal • additive ON-delay • passing break contact • passing break contact/instantaneous • OFF delay • OFF delay • OFF delay • OFF delay • Pulse delayed/instantaneous • pulse-shaping/instantaneous • pulse-shaping/instantaneous • pulse-shaping/instantaneous • oNo • ON-delay/OFF-delay/instantaneous • ON-delay/OFF-delay/instantaneous • DA-delay/OFF-delay/instantaneous • Passing make contact • passing make contact • passing make contact • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control signal • retrotriggerable with swit	-	No
• flashing symmetrically with pulse start		
• flashing symmetrically with pulse start • flashing asymmetrically with interval start • flashing asymmetrically with pulse start  **No  **Switching function • star-delta circuit with delay time • star-delta circuit with delay time • star-delta circuit  **Additive ON-delay • additive ON-delay • passing break contact • pulse delayed • No • pulse delayed • pulse-shaping • Yes • pulse-shaping • Yes • pulse-shaping/instantaneous • No • ON-delay/OFF-delay/instantaneous • No • DA-delay/OFF-delay/instantaneous • No • passing make contact • passing make contact • passing make contact (Instantaneous contact • retrotriggerable 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 floating • retrotriguerable with switched-on control signal • retrotriggerable with floating • retrotriguerable with switched-on control signal • retrotrigue		
flashing asymmetrically with interval start		
• flashing asymmetrically with pulse start  • star-delta circuit with delay time • star-delta circuit with delay time • star-delta circuit • additive ON-delay • passing break contact • passing break contact/instantaneous • OFF delay • OFF delay • OFF delay • pulse delayed • pulse delayed • pulse shaping • pulse-shaping • pulse-shaping/instantaneous • oNo • pulse-shaping/instantaneous • oNo • ON-delay/OFF-delay/instantaneous • ON-delay/OFF-delay/instantaneous • ON-delay/OFF-delay/instantaneous • ON-delay/OFF-delay/instantaneous • No • passing make contact • passing make contact • passing make contact/instantaneous contact • retoriggerable with deactivated control signal • retoriggerable with switched-on control signal • retoriggerable with switched-on control signal • retoriggerable with switched-on control signal • retoriggerable with deactivated control signal • retoriggerable with deactivated control signal • retoriggerable with deactivated control signal • retoriggerable with switched-on control signal • retoriggerable with switched-on control signal • retoriggerable with deactivated control signal • retoriggerable with switched-on control signal • retorig		
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  • passing break contact yes  • passing break contact/instantaneous  • OFF delay  • OFF delay  • OFF delay  • pulse delayed  • pulse delayed yes  • pulse-shaping  • pulse-shapinginstantaneous  • pulse-shapinginstantaneous  • pulse-shapinginstantaneous  • pulse-shapinginstantaneous  • pulse-shapinginstantaneous  • oNo-delay/OFF-delay/instantaneous  • oNo-delay/OFF-delay/instantaneous  • oNo-delay/OFF-delay/instantaneous  • oNo-delay-off-delay/instantaneous  • pulse-shaping with control signal  • retrotriggerable with deactivated control signal  • retrotriggerable with switched-on control signal  • retrotrigge		
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/instantaneous OFF delay/instantaneous OFF delay/instantaneous OFF delay/instantaneous ONO DIJSE-shaping DI		140
switching function with control signal  additive ON-delay  passing break contact  passing break contact/instantaneous  OFF delay  OFF delay/instantaneous  pulse delayed/instantaneous  pulse delayed/instantaneous  pulse-shaping  pu	-	No
additive ON-delay	•	
additive ON-delay passing break contact passing break contact/instantaneous OFF delay OFF delay OFF delay/instantaneous pulse delayed No pulse delayed No pulse delayed/instantaneous No pulse-shaping pulse-shaping pulse-shaping No ON-delay/OFF-delay/instantaneous No ON-delay/OFF-delay/instantaneous No ON-delay/OFF-delay/instantaneous No Dassing 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/instantaneous contact retrotriggerable with switched-on control signal/instantaneous contact retrotriggerable with deactivated control signal retrotriggerable with switched-on control signal/instantaneous contact retrotriggerable with switched-on control signal/instantaneous contact retrotriggerable with deactivated control signal retrotriggerable with switched-on control signal/instantaneous contact retrotriggerable with switched-on control signal/instantaneous Ro		
passing break contact passing break contact/instantaneous OFF delay OFF delay OFF delay OFF delay OFF delay OFF delay No pulse delayed No pulse delayed pulse-shaping Usantantaneous ON-delay/instantaneous ON-delay/instantaneous ON-delay/instantaneous ON-delay/instantaneous ON-delay/instantaneous ON-delay/instantaneous ON-delay/iroff-delay/instantaneous ON-delay/iroff-delay/iroff-delay/iroff-delay/iroff-delay/iroff-delay/iroff-delay/iroff-delay/iroff-delay/iroff-delay		Yes
OFF delay OFF delay/instantaneous OFF delay/instantan	•	Yes
OFF delay/instantaneous  pulse delayed  pulse delayed/instantaneous  pulse-shaping  pulse-shaping/instantaneous  additive ON-delay/instantaneous  other delayed/instantaneous  additive ON-delay/instantaneous  other delay/instantaneous  other delayed switching function of interval relay with control signal  or ertrotriggerable with deactivated control signal  or ertrotriggerable with switched-on control signal  or ertrotriggerable with switched-on control signal  or ertrotriggerable with deactivated control signal  or ertrotriggerable with or switched-on control  or ertrotriggerable with for decirculated control signal  No  design of the control terminal non-floating  Yes  Short-circuit protection  design of the fuse link for short-circuit protection of the auxiliary switch required  Auxiliary circuit  material of switching contacts  or delayed switching  or delayed switching	passing break contact/instantaneous	No
<ul> <li>pulse delayed</li> <li>pulse delayed/instantaneous</li> <li>No</li> <li>pulse-shaping</li> <li>yes</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 signal</li> <li>retrotriggerable with switched-on control signal</li> <li>retrotriggerable with deactivated control</li> <li>signal/instantaneous contact</li> <li>retriggerable with deactivated control signal</li> <li>No</li> <li>retrotriggerable with deactivated control signal</li> <li>No</li> <li>design of the control terminal non-floating</li> <li>Yes</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>0</li> </ul>	OFF delay	Yes
<ul> <li>pulse delayed/instantaneous</li> <li>pulse-shaping</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>No</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</li> <li>signal/instantaneous contact</li> <li>retrotriggerable with deactivated control</li> <li>signal/instantaneous contact</li> <li>retrotriggerable with deactivated control signal</li> <li>No</li> <li>design of the control terminal non-floating</li> <li>Yes</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>0</li> </ul>	OFF delay/instantaneous	No
<ul> <li>pulse-shaping</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>No</li> <li>passing make contact/instantaneous contact</li> <li>No</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 in vertical projection of the control terminal non-floating</li> <li>retriggerable with deactivated control signal</li> <li>No</li> <li>design of the control terminal non-floating</li> <li>Yes</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>0</li> </ul>	pulse delayed	No
pulse-shaping/instantaneous additive ON-delay/instantaneous 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 retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with deactivated control signal retrotriggerable with switched-on control r	<ul> <li>pulse delayed/instantaneous</li> </ul>	No
additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact 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/instantaneous contact retriggerable with deactivated control signal No  design of the control terminal non-floating  yes  Short-circuit protection  design of the fuse link for short-circuit protection of the auxiliary switch required  Auxiliary circuit  material of switching contacts ellayed switching  O	<ul> <li>pulse-shaping</li> </ul>	Yes
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 pretrotriggerable with deactivated control signal retrotriggerable with switched-on control signal/instantaneous contact retriggerable with deactivated control signal retriggerable with fectivated control signal retriggerable with deactivated control signal retriggerable with fectivated control signal retriggerable with switched-on control retrotriggerable with s	<ul> <li>pulse-shaping/instantaneous</li> </ul>	No
passing make contact passing make contact/instantaneous contact  passing make contact/instantaneous contact  witching 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 retriggerable with deactivated control signal No  design of the control terminal non-floating  Yes  Short-circuit protection  design of the fuse link for short-circuit protection of the auxiliary switch required  Auxillary circuit  material of switching contacts edelayed switching  AgSnO2  number of NC contacts edelayed switching	<ul> <li>additive ON-delay/instantaneous</li> </ul>	No
passing make contact/instantaneous contact     No  switching function of interval relay with control signal	<ul> <li>ON-delay/OFF-delay/instantaneous</li> </ul>	No
switching function of interval relay with control signal  • retrotriggerable with deactivated control signal	passing make contact	No
retrotriggerable with deactivated control signal/instantaneous contact     retrotriggerable with switched-on control signal No     retrotriggerable with switched-on control signal No     retriggerable with deactivated control signal No     design of the control terminal non-floating Yes  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 0  AgSnO2	passing make contact/instantaneous contact	No
signal/instantaneous contact  • retrotriggerable with switched-on control signal  • retrotriggerable with switched-on control signal/instantaneous contact  • retriggerable with deactivated control signal  • retriggerable with deactivated control signal  design of the control terminal non-floating  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  0	switching function of interval relay with control signal	
• retrotriggerable with switched-on control signal/instantaneous contact     • retriggerable with deactivated control signal  design of the control terminal non-floating  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  • delayed switching  No  No  No  No  No  No  No  No  Auxiliary Yes   Auxiliary Short-circuit protection of the auxiliary fuse gL/gG: 4 A  No  Auxiliary Short-circuit protection of the auxiliary fuse gL/gG: 4 A  No  O  O  O  O  O  O  O  O  O  O  O  O  O		No
signal/instantaneous contact  • retriggerable with deactivated control signal  No  design of the control terminal non-floating  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  0		
design of the control terminal non-floating  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  0	signal/instantaneous contact	
design of the fuse link for short-circuit protection of the auxiliary switch required  Auxiliary circuit  material of switching contacts  • delayed switching  0		
design of the fuse link for short-circuit protection of the auxiliary switch required  Auxiliary circuit  material of switching contacts  o delayed switching  O  fuse gL/gG: 4 A  AgSnO2  AgSnO2  0		Yes
Auxiliary circuit  material of switching contacts  number of NC contacts  • delayed switching  0	-	
material of switching contacts  AgSnO2  number of NC contacts  • delayed switching  0	switch required	fuse gL/gG: 4 A
number of NC contacts  • delayed switching  0	Auxiliary circuit	
• delayed switching 0	material of switching contacts	AgSnO2
	number of NC contacts	
• instantaneous contact 0	delayed switching	
	• instantaneous contact	0

number of NO contacts	
<ul> <li>delayed switching</li> </ul>	0
instantaneous contact	0
number of CO contacts	
<ul> <li>delayed switching</li> </ul>	1
• instantaneous contact	0
operational current of auxiliary contacts at AC-15	
• at 24 V	3 A
• at 250 V	3 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
• at 125 V	0.2 A
• at 250 V	0.1 A
operating frequency with 3RT2 contactor maximum	5 000 1/h
contact reliability of auxiliary contacts	one incorrect switching operation of 100 million switching operations (17 V, 5
	mA)
contact rating of auxiliary contacts according to UL	R300 / B300
Inputs/ Outputs	
product function	
• non-volatile	No
Electromagnetic compatibility	
EMC emitted interference according to IEC 61812-1	EN 61000-6-4(3)
EMC immunity according to IEC 61812-1	EN 61000-6-2
conducted interference	
due to burst according to IEC 61000-4-4	2 kV network connection / 1 kV control connection
due to conductor-earth surge according to IEC 61000-4-5	2 kV
due to conductor-conductor surge according to IEC	1 kV
61000-4-5	1 IVV
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
Safety related data	
-	
category according to EN 954-1	none
category according to EN 954-1  Electrical Safety	none
	IP20
Electrical Safety	
Electrical Safety protection class IP on the front according to IEC 60529	IP20
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	IP20 finger-safe, for vertical contact from the front
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation Connections/ Terminals	IP20 finger-safe, for vertical contact from the front
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation	IP20 finger-safe, for vertical contact from the front Basic insulation
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and	IP20 finger-safe, for vertical contact from the front Basic insulation
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit	IP20 finger-safe, for vertical contact from the front Basic insulation No
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation  Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit	IP20 finger-safe, for vertical contact from the front Basic insulation No
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	IP20 finger-safe, for vertical contact from the front Basic insulation  No screw-type terminals
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid	IP20 finger-safe, for vertical contact from the front Basic insulation  No screw-type terminals  2x (0,51,5 mm²), 2x (0,75 2,5 mm²)
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation  Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections  • solid • finely stranded with core end processing	IP20 finger-safe, for vertical contact from the front Basic insulation  No screw-type terminals  2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²)
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation  Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	IP20 finger-safe, for vertical contact from the front Basic insulation  No screw-type terminals  2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14)
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation  Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections  • solid • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded	IP20 finger-safe, for vertical contact from the front Basic insulation  No screw-type terminals  2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14)
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections  • solid  • finely stranded with core end processing  • for AWG cables solid  • for AWG cables stranded connectable conductor cross-section	IP20 finger-safe, for vertical contact from the front Basic insulation  No screw-type terminals  2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14)
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	IP20 finger-safe, for vertical contact from the front Basic insulation  No screw-type terminals  2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14)  0.5 2.5 mm²
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	IP20 finger-safe, for vertical contact from the front Basic insulation  No screw-type terminals  2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14)  0.5 2.5 mm²
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	IP20 finger-safe, for vertical contact from the front Basic insulation  No screw-type terminals  2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14)  0.5 2.5 mm²
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	IP20 finger-safe, for vertical contact from the front Basic insulation  No screw-type terminals  2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14)  0.5 2.5 mm² 0.5 2.5 mm²
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation  Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	IP20 finger-safe, for vertical contact from the front Basic insulation  No screw-type terminals  2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14)  0.5 2.5 mm²  0.5 2.5 mm²
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation  Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	IP20 finger-safe, for vertical contact from the front Basic insulation  No screw-type terminals  2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14)  0.5 2.5 mm²  18 14  18 14
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	IP20 finger-safe, for vertical contact from the front Basic insulation  No screw-type terminals  2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14)  0.5 2.5 mm²  18 14 18 14 18 14 0.8 1.2 N·m
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	IP20 finger-safe, for vertical contact from the front Basic insulation  No screw-type terminals  2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14)  0.5 2.5 mm²  18 14 18 14 0.8 1.2 N·m
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation  Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	IP20 finger-safe, for vertical contact from the front Basic insulation  No screw-type terminals  2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14)  0.5 2.5 mm² 0.5 2.5 mm² 18 14 18 14 18 14 0.8 1.2 N·m M3
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation  Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	IP20 finger-safe, for vertical contact from the front Basic insulation  No screw-type terminals  2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14)  0.5 2.5 mm² 0.5 2.5 mm² 18 14 18 14 0.8 1.2 N·m M3
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation  Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	IP20 finger-safe, for vertical contact from the front Basic insulation  No screw-type terminals  2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14)  0.5 2.5 mm² 0.5 2.5 mm²  18 14 18 14 0.8 1.2 N·m M3  any screw and snap-on mounting onto 35 mm DIN rail
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	IP20 finger-safe, for vertical contact from the front Basic insulation  No screw-type terminals  2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14)  0.5 2.5 mm²  0.5 2.5 mm²  18 14 18 14 0.8 1.2 N·m M3  any screw and snap-on mounting onto 35 mm DIN rail 57 mm
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections  • solid  • finely stranded with core end processing • for AWG cables solid • for AWG cables stranded  connectable conductor cross-section  • solid • finely stranded with core end processing  AWG number as coded connectable conductor cross section  • solid • stranded  tightening torque design of the thread of the connection screw  Installation/ mounting/ dimensions  mounting position fastening method height width depth	IP20 finger-safe, for vertical contact from the front Basic insulation  No screw-type terminals  2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14)  0.5 2.5 mm² 0.5 2.5 mm²  18 14 18 14 0.8 1.2 N·m M3  any screw and snap-on mounting onto 35 mm DIN rail 57 mm 45 mm
Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of insulation  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	IP20 finger-safe, for vertical contact from the front Basic insulation  No screw-type terminals  2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) 2x (18 14) 2x (18 14)  0.5 2.5 mm² 0.5 2.5 mm²  18 14 18 14 0.8 1.2 N·m M3  any screw and snap-on mounting onto 35 mm DIN rail 57 mm 45 mm

— forwards	0 mm
— 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
during storage	-40 +85 °C
during transport	40 +85 °C
relative humidity during operation	10 95 %
Approvals Certificates	









Confirmation





EMV **Test Certificates** Marine / Shipping



<u>KC</u>

Type Test Certificates/Test Report







Marine / Shipping Environment other





Confirmation

**Environmental Confirmations** 

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=3RP2005-1AQ30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2005-1AQ30

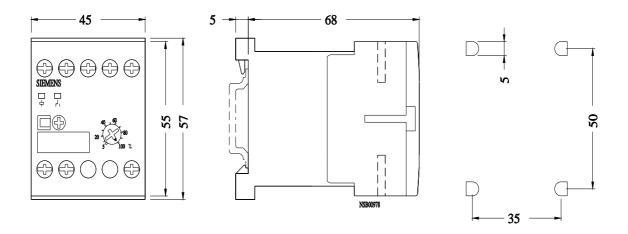
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RP2005-1AQ30

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RP2005-1AQ30&lang=en

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3RP2005-1AQ30/manual



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