SIEMENS

Data sheet 3RP2005-1BW30



Timing relay, electronic Multifunction, 16 functions 2 change-over contacts 24 to 240 V AC/DC 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
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
adjustable time	0.05 100 s
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	К
relative repeat accuracy	1 %; +/-
influence of the surrounding temperature	±5 %
power supply influence	±1 %
Substance Prohibitance (Date)	05/01/2012
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Bleititanzirkonoxid - 12626-81-2
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
• at 50 Hz	24 240 V
• at 60 Hz	24 240 V
control supply voltage frequency 1	50 60 Hz
control supply voltage 1	
• at DC	24 240 V

eperating range factor control supply voltage rated value at 1.1 e initial value 1.1 e initial value 2.0 e initial value 3.0 e initial value 3.0 e initial value 4.1 e initial value 5.1 e initial value 5.1 e initial value 5.1 e initial value 5.1 e initial value 6.2 e initial value 6.2 e initial value 7.1 e initial value 8.1 e init		
Missaels value State		
Septembry Sept	• initial value	0.85
AC at so fix initial value initial	full-scale value	1.1
e full scale value Possible pranse factor control supply voltage rated value at AC at 60 H AC at 60		
Operating range factor control supply voltage rated value at	• initial value	0.8
AC at 6 biz initial value full-cate value Switching Function switching function ON-delay Share contact passing make contact Pes passing make contact Fishing symmetrically with interval start instantaneous Fishing symmetrically with interval start Fishing symmetrically with interval start Fishing symmetrically with putes start Fishing symmetrically symmetrically with putes start Fishing symmetrically symmetricall	full-scale value	1.1
**Mitching Function **Witching Function **O'N delay **O'N d		
switching Function • ON-delay instantaneous contact • ON-delay instantaneous contact • passing make contact instantaneous or flashing symmetrically with interval start • flashing symmetrically with pulse start instantaneous • flashing symmetrically with pulse start • flashing symmetrically with pulse start • flashing asymmetrically with control signal • pulse delayed • flashing asymmetrically with control signal • pulse delayed • flashing asymmetrically with control signal • pulse delayed flashinatinaneous • pulse delayed flashinatinaneous • pulse delayed flashing contact • pulse delayed flashing	• initial value	0.8
### STATE OF THE PROPRIET OF T	full-scale value	1.1
ON-delay/instantaneous contact ON-delay/instantaneous contact Passing make contact (Yes OFF delay No witching function Isabing symmetrically with interval start/instantaneous Isabing symmetrically with interval start/instantaneous Isabing symmetrically with pulse start (No Isabing symmetrically with pulse start Isabing asymmetrically with delay time Isabing asymmetrically with control signal Isabin	Switching Function	
ON-delayinstantaneous contact passing make contact passing make contact Pes passing make contact Yes Rashing symmetrically with interval start instantaneous Rashing symmetrically with interval start Yes Rashing symmetrically with pulse start No Rashing asymmetrically with pulse start No Rashing function with central signal Rashing asymmetrically Rashing	switching function	
passing make contact passing make contact passing make contact/instantaneous contact passing make contact/instantaneous passing make contact/instantaneous passing make contact/instantaneous passing mymetrically with interval start passing symmetrically with interval start passing symmetrically with pulse start passing symmetrically with pulse start passing asymmetrically with pulse start passing asymmetrically with pulse start passing asymmetrically with pulse start passing symmetrically with pulse start passing symmetrically with pulse start passing break contact passing break contact passing break contact passing break contact passing break contact/instantaneous passing break contact/instantaneous passing break contact/instantaneous passing break contact passing break contact passing break contact passing make contact/instantaneous passing make contact pa	ON-delay	Yes
passing make contact/instantaneous contact of Pri delay of Mashing symmetrically with interval start/instantaneous flashing symmetrically with interval start yes flashing symmetrically with pulse start yes switching function with control signal flashing symmetrically with pulse start yes flashing symmetrically with pulse start yes flashing symmetrically with delay time yes flashing symmetrically yes flashing symmetrically with control signal yes flashing symmetrically with control signal yes flashing symmetrically with control signal yes flashing function of interval roley with control signal flashing function of interval roley with control signal yes flashing function of interval roley with control signal yes flashing function of interval roley with control signal yes flower properties with with delay of the control signal yes flower yes flashing function of interval roley with control signal yes flower yes flashing function of interval roley with control signal yes flower yes flashing flashing yes flashing yes flashing flashing yes flashing flashing yes flashing yes flashing flash	 ON-delay/instantaneous contact 	
OFF delay switching function		
switching function • flashing symmetrically with interval start yes • flashing symmetrically with pulse start yes • flashing symmetrically with pulse start yes • flashing symmetrically with pulse start No • start-deta circuit with delay time • start-deta circuit with delay time • start-deta circuit Yes • start-deta circuit Yes • start-deta circuit Yes • start-deta circuit Yes • passing break contact Yes • passing break contact Yes • passing break contact/instantaneous • passing break contact/instantaneous • pulse-shaping • pulse-shaping • pulse-shaping • pulse-shaping • pulse-shaping • pulse-shaping • pulse-shaping with control signal • pulse-shaping make contact • passing make contact • passing make contact No • passing 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 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 deactivated control signal • retrotriggerable with deactivated control signal • retrotriggerable with deactivated c		
• flashing symmetrically with interval start		No
• flashing symmetrically with interval start • flashing symmetrically with pulse start • flashing asymmetrically with control signal • flashing asymmetrically with switched-on control signal • flashing asymmetrically with control signal • flashing asymmetrically with switched-on control signal • flashing asymmetrically with switched-on control signal • flashing asymmetrically with control signal • flashing asymmetrically with switched-on control signal • flashing asymmetrically with cont	-	V
• flashing symmetrically with pulse start/instantaneous • flashing symmetrically with pulse start • flashing asymmetrically with interval start • flashing asymmetrically with interval start • flashing asymmetrically with pulse start No switching function • star-delta circuit with delay time • star-delta circuit yes switching function with control signal • additive ON-delay • passing break contact • passing break contactinatantaneous • OFF delay • OFF delay • OFF delay • pulse delayed • pulse delayed • pulse shaping • pulse-shaping		
• flashing symmetrically with pulse start • star-delta circuit with delay time • star-delta circuit with delay time • star-delta circuit • yes • star-delta circuit • yes • star-delta circuit • yes • datiditive ON-delay • passing break contact • passing break contact • passing break contact • passing break contact/instantaneous • OFF delay/instantaneous • OFF delay/instantaneous • pulse delayed • pulse delayed/instantaneous • pulse-shaping • response on the circuit stantaneous • oN-delay/OFF-delay/instantaneous • oN-delay/OFF-delay/instantaneous • passing make contact/instantaneous contact • passing make contact/instantaneous contact • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control signal • retrotriggerable with switched-		
• flashing asymmetrically with interval start • flashing asymmetrically with pulse start • sard-delta circuit with delay time • star-delta circuit with delay time • star-delta circuit • additive ON-delay • passing fureak contact • passing break contact • passing break contact/instantaneous • passing break contact/instantaneous • OFF delay • OFF delay • pulse delayed • pulse delayed • pulse delayed • pulse-shaping • pulse-shaping Yes • additive ON-delay/instantaneous • passing make contact • retrotriggerable with deactivated control signal • retrotriggerable with switched-on 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 • ret		
• flashing asymmetrically with pulse start switching function • 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 • or OFF delay finstantaneous • pulse delayed • pulse delayed • pulse shaping finstantaneous • pulse shaping finstantaneous • pulse shaping finstantaneous • pulse delayed() • ON-delay/OFF-delay/instantaneous • pulse shaping finstantaneous • passing make contact/instantaneous contact • passing make contact/instantaneous contact • retrotrigerable with deactivated control signal • retrotrigerable with switched-on control signal • retrotrigerable with deactivated control signal • retrotrigerable with deactivated control signal design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts • delayed switching • finstantaneous contact • delayed switching • finstantaneous contact • delayed switching		
switching function • star-delta circuit with delay time • star-delta circuit with delay time • star-delta circuit yes switching function with control signal • additive ON-delay • passing break contact • passing break contact/instantaneous • OFF delay • OFF delay • OFF delay • pulse delayed • pulse delayed • pulse shaping • yes • pulse-shaping • yes • ON-delay/instantaneous • pulse-shaping/instantaneous • yes • ON-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 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 deactivated control signal • retrotriggerable with switched-on control signal • retrotriggerable with deactivated control signal • retrotriggerable with switched-on control signal • retrotriggerable w		
star-delta circuit with delay time star-delta circuit switching function with control signal additive ON-delay passing break contact passing break contact passing break contact/instantaneous Pes OFF delay		NO
switching function with control signal additive ON-delay passing break contact passing break contact passing break contact/instantaneous OFF delay OFF delay pulse delayed pulse delayed pulse-shaping pulse-shaping pulse-shaping/instantaneous oNo pulse-shaping/instantaneous pulse-shaping/inst	-	No
additive ON-delay Yes passing break contact passing break contact/instantaneous Yes OFF delay OFF delay/instantaneous Yes OFF delay/instantaneous No pulse delayed/instantaneous No pulse delayed/instantaneous Yes outse-shaping pulse-shaping/instantaneous Yes oUtse-shaping/instantaneous No outse-shap	·	
additive ON-delay passing break contact passing break contact/instantaneous OFF delay OFF delay OFF delay/ pulse delayed No pulse delayed pulse delayedinstantaneous Ves pulse shaping Pes pulse-shaping Pes pulse-shaping Pes pulse-shaping/instantaneous Additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous Pes ON-delay/OFF-delay/instantaneous Pes Samitaching function of interval relay with control signal retrotriggerable with deactivated control Signal/instantaneous contact Pes retrotriggerable with switched-on control signal retrotriggerable with switched-on control Signal/instantaneous contact Pes Signal/instantaneous Pes Signal/instantaneous Signal/		166
passing break contact passing break contact/instantaneous OFF delay OFF delay-Instantaneous ONO pulse delayed No pulse delayed/instantaneous ONO pulse-shaping OFF delay-Instantaneous ONO-delay-Instantaneous ON		Yes
passing break contact/instantaneous OFF delay OFF delay/instantaneous Pulse delay/instantaneous OFF d	•	
OFF delay OFF delay/instantaneous OFF delay/instantaneous pulse delayed No pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping pulse-shaping pulse-shaping/instantaneous Additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous ON-delay/OFF-delay/instantaneous Pes passing make contact Passing make contact/instantaneous contact Pes switching function of interval relay with control signal retrotriggerable with deactivated control signal retrotriggerable with switched-on control signal retrotriggerable with acactivated control signal retrotriggerable with switched-on control signal/instantaneous contact retrotriggerable with acactivated control signal retrotriggerable with switched-on control signal/instantaneous contact retrotriggerable with switched-on 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 of NC contacts delayed switching of NO contacts delayed switching of NO contacts delayed switching		
pulse delayed pulse delayed/instantaneous pulse-shaping pulse-shaping pulse-shaping pulse-shaping/instantaneous additive ON-delay/instantaneous additive ON-delay/instantaneous Pes additive ON-delay/instantaneous Pes additive ON-delay/instantaneous Pes passing make contact Pes passing make contact Pes 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 switched-on control signal retrotriggerable with deactivated control signal retrotriggerable with for short-circuit protection retriggerable with for short-circuit protection of the auxiliary synchricuit protection retrotriggerable with for short-circuit protection of the auxiliary synchricuit protection retrotriggerable with for short-circuit protection of the auxiliary synchricuit protection design of the fuse link for short-circuit protection of the auxiliary synchricuit material of switching contacts delayed switching retrotriggerable with deactivated control signal No design of the control terminal non-floating fuse gL/gG: 4 A switching o delayed switching o delayed switching ol delayed switching ol delayed switching		
pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous pulse-shaping/instantaneous e additive ON-delay/instantaneous ON-delay/instantaneous yes ON-delay/instantaneous yes passing make contact passing make contact passing make contact/instantaneous contact yes switching function of interval relay with control signal e retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal e retrotriggerable with switched-on control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable 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 e delayed switching e listantaneous contact 0 number of NO contacts e delayed switching 0 delayed switching 0 delayed switching 0 delayed switching 0	OFF delay/instantaneous	Yes
pulse delayed/instantaneous pulse-shaping pulse-shaping/instantaneous pulse-shaping/instantaneous e additive ON-delay/instantaneous ON-delay/instantaneous yes ON-delay/instantaneous yes passing make contact passing make contact passing make contact/instantaneous contact yes switching function of interval relay with control signal e retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable with switched-on control signal e retrotriggerable with switched-on control signal retrotriggerable with deactivated control signal/instantaneous contact retrotriggerable 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 e delayed switching e listantaneous contact 0 number of NO contacts e delayed switching 0 delayed switching 0 delayed switching 0 delayed switching 0	•	No
 pulse-shaping/instantaneous additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous Pes passing make contact passing make contact/instantaneous contact passing make contact/instantaneous 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 deactivated control signal retrotriggerable with deactivated control signal No ertrotriggerable 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 o instantaneous contact o number of NO contacts delayed switching o delayed switching delayed switching delayed switching delayed switching 		No
additive ON-delay/instantaneous ON-delay/OFF-delay/instantaneous passing make contact passing make contactinstantaneous contact passing make contactinstantaneous contact passing make contactinstantaneous contact passing make contactinstantaneous contact passing function of interval relay with control signal passing function of interval relay with control signal passing function of interval relay with control signal passing function contact passing function	pulse-shaping	Yes
ON-delay/OFF-delay/instantaneous passing make contact passing make 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 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 olimitantaneous contact olimitantaneous	• pulse-shaping/instantaneous	Yes
 passing make contact passing make contact/instantaneous contact passing make contact/instantaneous 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 retriggerable with deactivated control signal retriggerable with deactivated control signal No design of the control terminal non-floating Tyes 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 o instantaneous contact o number of NO contacts delayed switching o delayed switching o delayed switching o 	additive ON-delay/instantaneous	Yes
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 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 delayed switching instantaneous contact delayed switching instantaneous contact olumber of NO contacts delayed switching delayed switching delayed switching olumber of NO contacts delayed switching delayed switching olumber of NO contacts delayed switching	 ON-delay/OFF-delay/instantaneous 	Yes
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 • 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 • instantaneous contact • delayed switching	 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 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 AgSnO2 number of NC contacts delayed switching instantaneous contact ounder of NO contacts delayed switching 	 passing make contact/instantaneous contact 	Yes
signal/instantaneous contact • retrotriggerable with switched-on 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 • delayed switching • instantaneous contact • delayed switching	switching function of interval relay with 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 AgSnO2 number of NC contacts delayed switching instantaneous contact number of NO contacts delayed switching		No
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 • instantaneous contact number of NO contacts • delayed switching	 retrotriggerable with switched-on 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 • instantaneous contact number of NO contacts • delayed switching		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 • instantaneous contact number of NO contacts • delayed switching	retriggerable with deactivated control signal	No
design of the fuse link for short-circuit protection of the auxiliary switch required Auxiliary circuit material of switching contacts • delayed switching • instantaneous contact number of NO contacts • delayed switching	design of the control terminal non-floating	Yes
switch required Auxiliary circuit material of switching contacts odelayed switching oinstantaneous contact output number of NO contacts olimited auxiliary circuit AgSnO2 0 0 output output	Short-circuit protection	
material of switching contacts number of NC contacts elelayed switching instantaneous contact number of NO contacts elelayed switching 0 0 0 0 0 0 0 0 0 0 0 0 0		fuse gL/gG: 4 A
number of NC contacts • delayed switching • instantaneous contact number of NO contacts • delayed switching 0	Auxiliary circuit	
 delayed switching instantaneous contact number of NO contacts delayed switching 0 	material of switching contacts	AgSnO2
• instantaneous contact number of NO contacts • delayed switching 0 0 0	number of NC contacts	
number of NO contacts • delayed switching 0	delayed switching	0
• delayed switching 0	• instantaneous contact	0
	number of NO contacts	
• instantaneous contact 0	delayed switching	
	• instantaneous contact	0

number of CO contacts				
delayed switching	2			
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				
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			
protection class IP on the front according to IEC 60529	IP20			
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front			
type of insulation	Basic insulation			
type of insulation Connections/ Terminals	Basic insulation			
	Basic insulation No			
Connections/ Terminals product component removable terminal for auxiliary and				
Connections/ Terminals product component removable terminal for auxiliary and control circuit	No			
Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit	No			
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	No screw-type terminals			
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	No screw-type terminals 2x (0,51,5 mm²), 2x (0,75 2,5 mm²)			
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	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)			
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	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)			
product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	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)			
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	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)			
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	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			
product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	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			
product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	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			
product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	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			
product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	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			
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	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			
product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	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			
product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	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			
product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	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			
product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	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			
product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	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			
product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	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			
product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	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			
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 required spacing • with side-by-side mounting	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 18 14 18 12 N·m M3 any screw and snap-on mounting onto 35 mm DIN rail 57 mm 45 mm 73 mm			
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 required spacing • with side-by-side mounting — forwards	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 73 mm			
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 required spacing • with side-by-side mounting — forwards — backwards	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 73 mm 0 mm 0 mm			
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 required spacing • with side-by-side mounting — forwards	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 73 mm			

— at the side	0 mm		
for grounded parts			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— at the side	0 mm		
— downwards	0 mm		
for live parts			
— 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			
during operation	-25 +60 °C		
during storage	-40 +85 °C		
during transport	-40 +85 °C		
relative humidity during operation	10 95 %		
Approvals Certificates			
General Product Approval		EMC	Declaration of Conformity

@

Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report









Marine / Shipping

other



Confirmation

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RP2005-1BW30

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RP2005-1BW30}$

 ${\bf Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)}$

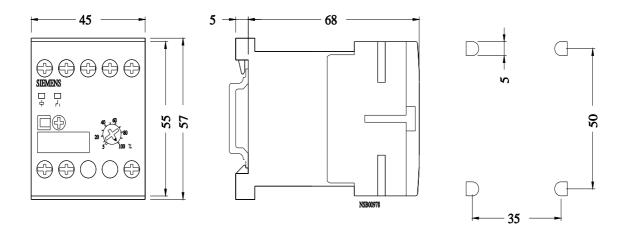
https://support.industry.siemens.com/cs/ww/en/ps/3RP2005-1BW30

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2005-1BW30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RP2005-1BW30/manual



last modified: 9/5/2023 🖸