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

MP2005-M30	
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	0.05 100 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
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
• at 60 Hz	100 127 V
control supply voltage frequency 1	50 60 Hz
control supply voltage 1	

at DC rated value	24 V
operating range factor control supply voltage rated value at DC	
	0.05
• initial value	0.85
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
 initial value 	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at	
AC at 60 Hz	
initial value	0.85
• full-scale value	1.1
Switching Function	
switching function	
ON-delay	Yes
 ON-delay/instantaneous contact 	No
 passing make contact 	Yes
 passing make contact/instantaneous contact 	No
OFF delay	No
switching function	
 flashing symmetrically with interval start/instantaneous 	No
• flashing symmetrically with interval start	Yes
• flashing symmetrically with pulse start/instantaneous	No
flashing symmetrically with pulse start	No
 flashing asymmetrically with interval start 	No
 flashing asymmetrically with pulse start 	No
switching function	
 star-delta circuit with delay time 	No
• star-delta circuit	No
switching function with control signal	
additive ON-delay	Yes
 passing break contact 	Yes
 passing break contact/instantaneous 	No
OFF delay	Yes
OFF delay/instantaneous	No
pulse delayed	No
pulse delayed/instantaneous	No
pulse-shaping	Yes
pulse-shaping/instantaneous	No
additive ON-delay/instantaneous	No
ON-delay/OFF-delay/instantaneous	No
passing make contact	No
 passing make contact/instantaneous contact 	No
switching function of interval relay with control signal	
 retrotriggerable with deactivated control signal/instantaneous contact 	No
 retrotriggerable with switched-on control signal 	No
 retrotriggerable with switched-on control signal/instantaneous contact 	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	fuse gL/gG: 4 A
Auxiliary circuit	
material of switching contacts	AgSnO2
number of NC contacts	
delayed switching	0
instantaneous contact	0
number of NO contacts	
 delayed switching 	0

• eldypd switching1• eldypd switching0• eldypd switching contacts at AC-15-• eldypd switching contacts at DC-133 A• eldypd switching contacts at DC-13-• eldypd switching contacts at DC-13-• eldypd switching contacts at DC-13-• eldypd switching frequency with 3R12 contactor maximum5000 1thContact relating frequency with 3R12 contactor maximum5000 1thContact relating of auxiliary contacts according to LCR300 / BD0Product function-• endypd switching contacts according to LC 8000 / BD0R300 / BD0Product function-• endypd switching contacts according to LC 8100 / AR300 / BD0Product function-• endypd switching contacts according to LC 8100 / AR300 / BD0Product function-• end to tark according to LC 8100 / AR300 / BD0• end to tark according to LC 8100 / AEN 8100 / A-1(2)• dud to contactor-endultor surge according to LC 8100 / AI V/V• dud to contactor-endultor surge according to LC 8100 / AI V/V• dud to contactor-endultor surge according to LC 8000 / BI V/V• dud to contactor-endultor surge according to LC 8000 / BI V/V• dud to contactor-endultor surge according to LC 8000 / BI V/V• dud to contactor-endultor surge according to LC 8000 / BI V/V• dud to contactor-endultor surge according to LC 8000 / BI V/V• dud to contactor-endultor surge according to LC 8000 / BI V/V• dud to contactor-endul		0
• existinamenus control 0 operational current of auxiliary contacts at AC-15 3 A • e. 12 AV 3 A • e. 12 AV 3 A • e. 12 AV 0 A • e. 12 AV 10 A		
operational current of auxiliary contacts at AC-15 s.A • # 22 V/ Participation Contacts and C		
• 12 3V 3A • • 12 3V 3A • • • 12 3V 3A • • • • • • • • • • • • • • • • • • •		0
• 1280 V 9A operational current of auxiliary contacts at DC-13 • • 1280 V 02A • 1280 V 02A • 1280 V 01A • 0280 V 01A operating frequency with 8T2 contactor maximum 5000 1/h contract reliably of auxiliary contacts minior more duviduing operation of 100 milion switching operations (17 V, 5 contract reliably of auxiliary contacts minior duviduing operation of 100 milion switching operations (17 V, 5 contract reliably of auxiliary contacts minior duviduing operation of 100 milion switching operations (17 V, 5 contract reliably of auxiliary contacts minior duviduing operation of 100 milion switching operations (17 V, 5 contract reliably of auxiliary contacts minior duviduing operation of 100 milion switching operations (17 V, 5 contacts reliably compatibility Executing operation of 100 milion switching operations (17 V, 5 EMC minited interference according to IEC 6100-43 EN 61000-44(3) EMC minited interference according to IEC 6100-44 2 K/ relevent contect on the formal according to IEC 6100-43 elue to conductor-contubutor gene according to IEC 6100-43 1 K/ contact discharge elue to conductor-contubutor gene according to IEC 6100-43 1 K/ contact discharge elue to conductor conting to IEC 6100-43 1 K/ contact discharge elue to conductor contigen to IEC 61000-43 1		
operational current of auxiliary contacts at DC-13 • at 24 V • at 25 V • a		
1.2 4 V 1.2 A ••••••••••••••••••••••••••••••••••••		3 A
• at 125 V0.2 Å• perating frequency with 3RT2 contactor maximum5000 1/hcontact reliability of auxiliary contactscontin corrent switching operation of 100 million switching operations (17 V, 5montact reliability of auxiliary contacts according to ULRB00/B300Partial Outputs OutputsRB00/B300inputs Outputs OutputsRB00/B300Partial Outputs Outp		
• alt250 Y 0.1 A operating frequency with SRT2 contactor maximum 5 000 1/h contact reliability of auxiliary contacts one incorrect switching operation of 100 million switching operations (17 V, 5 mil		
operating frequency with 3RT2 contactor maximum 5 000 1/h contact reliability of auxiliary contacts secording to UL R80/ R800 Reput Outputs R80/ R800 product function No Externalistic compatibility Externalistic ENC emitted interference according to EC 6100-44 EN 61000-64/3 EMC immunity according to EC 6100-44 2 kV network connection / 1 kV control connection - due to build according to EC 6100-44 2 kV network connection / 1 kV control connection - due to build according to EC 6100-45 2 kV - due to build according to EC 6100-45 2 kV - due to build according to EC 6100-45 2 kV - due to build according to EC 6100-45 2 kV - due to build according to EC 6100-45 2 kV - due to build conductor-enductor surge according to EC 6100-45 1 kV - due to conductor-enductor surge according to EC 6002-41 4 kV contact discharge / 8 kV air discharge - fabl-based Interference according to EC 6002-42 4 kV contact discharge / 8 kV air discharge Setter reliated connection terma according to EC 6002-41 10 Vm catectors all for fire front according to EC 6002-42 10 Vm geteristica		
contact reliability of auxiliary contacts one incorrect switching operation of 100 million switching operations (17 V. 5 m/h) contact rating of auxiliary contacts according to UL R300 / B300 inputs/ Computs Product function • onn-volable No EMC emitted interference according to IEC 61812-1 EN 61000-6-4(3) EMC fundation of EC 61812-1 EN 61000-6-4(3) EMC immunity according to IEC 6100-4-4 EV 04 retwork connection / 1 kV control connection • due to conductor-and surge according to IEC 61000-4-3 2 kV network connection / 1 kV control connection • due to conductor-and surge according to IEC 61000-4-3 1 kV • field-based interference 2 kV network connection / 1 kV control connection • due to conductor-and surge according to IEC 6000-4-3 10 V/m • due to conductor-and surge according to IEC 6000-4-3 10 V/m • field-based Interference according to IEC 6000-4-3 10 V/m • field-based Interference according to IEC 6000-4-3 10 V/m • field-based field 10 EC 61000-4-2 # KV contact discharge / 8 kV air discharge 5 div product component removable terminal for auxiliary and control contact from the front 10 V/m touch protecto		
mA) mA) mA) contact rating of auxiliary contacts according to UL R800 / 8300 https://Outputs Product function in.on-volabile No ExtC emitted interference according to IEC 61812-1 EN 61000-6-4(3). EXC immunity according to IEC 61812-1 EN 61000-6-2 conducted interference 2 kV network connection / 1 kV control connection - due to burst according to IEC 61000-4-3 2 kV - due to burst according to IEC 61000-4-2 2 kV - due to burst according to IEC 61000-4-2 1 kV - field-based interference according to IEC 61000-4-2 1 kV electrosatito discharge according to IEC 61000-4-2 1 kV electrosatito discharge according to IEC 61000-4-2 1 kV electrosatito discharge according to IEC 61000-4-2 1 kV effort-based interference according to IEC 61000-4-2 1 kV effort-based interference according to IEC 61000-4-2 1 kV effort-based interference according to IEC 61000-4-2 1 kV forted in class IP on the front according to IEC 61000-4-2 1 kV forted in class IP on the front according to IEC 61000-4-2 1 kV forted in		
Imputs/ Outputs No Product function No Electromagnetic compatibility ENG emitted interference according to IEC 61812-1 EN 61000-6.4(3) EMC immunity according to IEC 61812-1 EN 61000-6.4(3) ENG emitted interference - due to bust according to IEC 61000-4.4 2 kV network connection /1 kV control connection - due to bust according to IEC 61000-4.4 2 kV network connection /1 kV control connection - due to bust according to IEC 61000-4.3 10 V/m olectrostatic discharge according to IEC 61000-4.3 10 V/m olectrostatic discharge according to IEC 6000-4.3 10 V/m olectrostatic discharge according to IEC 61000-4.2 4 kV contact discharge /8 kV air discharge grader class IP on the front according to IEC 60029 finger-sale, for vertical contact from the front catagory according to IB 54-1 none Product componint removable terminal for auxillary and No control closelito 5 context discharge vipe of electrical connection for auxillary and control circuit Seree-type terminals type of connectable conductor cross-section 5 col (515 mm²) solid 2 x (1814) etaltWG cables solid <	contact reliability of auxiliary contacts	
product function No ENC emitted interference according to IEC 61912-1 EN 61000-6-4(3) ENC immuny according to IEC 61912-1 EN 61000-6-2 conducted interference 4 to to buils according to IEC 61000-4-5 2 kV network connection / 1 kV control connection • due to conductor-entin sugge according to IEC 61000-4-5 4 kV conductor-entin sugge according to IEC 61000-4-2 2 kV • due to conductor-entin sugge according to IEC 61000-4-3 10 V/m electrostatic discharge according to IEC 61000-4-2 • field-based interference according to IEC 61000-4-2 4 kV contact discharge / 8 kV air discharge Safdy related data protection class IP on the front according to IEC 600529 IP20 10 V/m protection on the front according to IEC 600529 IP20 10 V/m touch protections Terminals protection class IP on the front according to IEC 600529 IP20 foructions/Terminals none Connections/Terminals 10 V/m protection class IP on the front according to IEC 600529 IP20 10 V/m foruct component removable terminal for auxiliary and control circuit screw-type terminals 10 V/m touch protection for auxiliary and control circuit screw-type terminals 1	contact rating of auxiliary contacts according to UL	R300 / B300
Increment No Electronagnotic compatibility ENC emitted interference according to EC 61912-1 EN 61000-6-2 Conducted interference ENC immunity according to EC 61000-4-4 2 kV network connection / 1 kV control connection - due to burst according to EC 61000-4-5 2 kV network connection / 1 kV control connection - due to conductor-conductor surge according to EC 61000-4-5 2 kV - due to conductor-conductor surge according to EC 61000-4-5 1 kV - due to conductor-conductor surge according to EC 61000-4-3 10 V/m electrostatic discharge according to EC 61000-4-3 10 V/m electrostatic discharge according to EC 61000-4-3 10 V/m electrostatic discharge according to EC 6002-9 IP20 touch protection on the front according to EC 60529 IP20 touch protection on the front according to EC 60529 Inger-safe, for vertical contact from the front type of insulation actionagnotic according to EC 60529 type of insulation actionagnotic according to EC 60529 type of insulation sacces-type terminals type of electroit acometion for auxiliary and control circuit screex-type terminals type of electroit aconnecton for auxiliary and control circuit	Inputs/ Outputs	
Electromagnetic compatibility ENC EMC immunity according to EC 61812-1 EN 61000-6-4(3) EMC immunity according to EC 61000-4-4 2 kV network connection / 1 kV control connection • due to conductor-arbity page according to EC 61000-4-5 2 kV • due to conductor-arbity page according to EC 61000-4-3 1 kV • due to conductor-arbity page according to EC 61000-4-3 1 kV • field-based interference according to EC 61000-4-3 10 Vm electrostatic discharge according to EC 61000-4-3 10 Vm electrostatic discharge according to EC 60529 1 kV protection class IP on the front according to EC 60529 1 P20 fouch protection on the front according to EC 60529 1 P20 fouch protection on the front according to EC 60529 1 P20 fouch component removable terminal for auxiliary and control circuit screw-type terminals type of electrical connection for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections 9 k (0.5 1.5 mm²), 2 k (0.5 2.5 mm²) • solid 0.5 2.5 mm²) 2 k (18 14) • at AVG cables standed 2 k (18 14) 2 k (18 14) • solid	product function	
EMC emitted interference according to IEC 61812-1 EN 61000-6-2 EMC immunity according to IEC 61002-4-1 EN 61000-6-2 • due to burst according to IEC 61002-4-1 2 kV network connection / 1 kV control connection • due to conductor - enductor surge according to IEC 61000-4-5 1 kV • 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 Torrelated data Torrelated data protection class IP on the front according to IEC 60529 IP20 fouch protection on the front according to IEC 60529 IP20 fouch protection on the front according to IEC 60529 Insulation category according to B94-1 none control circuit screw-type terminals type of neulation screw-type terminals vigo of neulation contection for auxiliary and control circuit screw-type terminals type of connectable conductor cross-section solid • alWG cables solid 2x (0.515 mm²), 2x (0.7525 mm²) • alWG cables solid 0.5 2.5 mm² • alWG cables solid 18 14 • solid	non-volatile	No
EMC Immunity according to IEC 61812-1 EN 61000-6-2 conducted interference 2 KV network connection / 1 KV control connection • due to conductor-earth surge according to IEC 61000-4-5 2 KV • due to conductor-earth surge according to IEC 61000-4-5 1 KV • flotd-based interference according to IEC 61000-4-3 1 V/ • flotd-based interference according to IEC 61000-4-3 10 V/m • electrostatic discharge according to IEC 60529 IfP20 protection class IP on the front according to IEC 60529 IfP20 touch protection on the front according to IEC 60529 IfP20 category according to EN 954-1 none Connectable Conductor cross-sections sciew-type terminals type of leachrical connectable terminal for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections sci (15 15 mm²), 2x (0,7 2,5 mm²) • finely standed with core end processing 2x (18 14) • at AWG cables standed 2x (18 14) • at AWG cables standed 2x (18 14) • at AWG cables standed 38 12 mm² • solid 08 12 mm² • solid 18 14	Electromagnetic compatibility	
conducted interference 2 kV network connection / 1 kV control connection • due to burst according to IEC 61000-4.3 2 kV • due to conductor-conductor surge according to IEC 61000-4.3 1 kV field-based interference according to IEC 61000-4.3 10 V/m electrostatic discharge according to IEC 61000-4.3 10 V/m electrostatic discharge according to IEC 61000-4.3 10 V/m electrostatic discharge according to IEC 60529 IP20 protection class IP on the front according to IEC 60529 IP20 fueld-based interference according to IEC 60529 Ifpersafe, for vertical contact from the front type of insultation Basic insultation category according to EN 954-1 none Connectable conductor cross-sections screw-type terminals type of electrical connectable conductor cross-sections screw-type terminals type of electrical connectable conductor cross-section screw-type terminals e solid 0.5 2.5 mm ²) 2.5 mm ²) • solid 0.5 2.5 mm ²) 2.5 mm ²) • solid 0.5 2.5 mm ² 0.5 2.5 mm ²) • solid 0.5 2.5 mm ² 0.5 2.5 mm ²) • solid 18 14 stra	EMC emitted interference according to IEC 61812-1	EN 61000-6-4(3)
• 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 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 rotated data IP20 protection cales IP on the front according to IEC 60529 IfP20 couch protection on the front according to IEC 60529 Ifpger-safe, for vertical contact from the front touch protection on the front according to IEC 60529 Ifpger-safe, for vertical contact from the front control circuit mone Connectional touch protection on the front according to IEC 60529 Ifpger-safe, for vertical contact from the front control circuit serew-type terminals touch protection Vpe of connectable conductor cross-sections • solid 2 k (15,15, mm²), 2x (0,75,25, mm²) • at AWG cables stranded 2 k (18,14) • at AWG cables stranded 0.525, mm² • solid 18 14 • solid 18 14 • at AWG camber as coded connectable conductor cross section 0.5 25, mm² • solid 18 14 • stranded 18 14 • stranded 18 14 • at AWG camber	EMC immunity according to IEC 61812-1	EN 61000-6-2
• due to conductor-earth surge according to IEC 61000-4-5 2 kV • due to conductor-conductor surge according to IEC 61000-4-3 1 kV • field-based interference according to IEC 61000-4-2 4 kV contact discharge /8 kV air discharge Safety related data Protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 IP20 Image: safe, for vertical contact from the front touch protection on the front according to IEC 60529 IP20 Image: safe, for vertical contact from the front touch protection on the front according to IEC 60529 IP20 Image: safe, for vertical contact from the front type of isolation none Ome Image: safe, for vertical contact from the front Connectable conductor cross-sections screw-type terminals Vpc of electrical connectable conductor cross-sections 2k (0, 51, 5 mm²), 2k (0, 752, 5 mm²) • solid 0.52.5 mm² 2k (1814) 2k (1814) • at AWG cables solid 2k. (1814) 2k (1814) 2k (1814) • solid 0.52.5 mm² 3k m² 3k m² • solid 1814 3k m² 3k m² • solid 18	conducted interference	
• due to conductor-conductor surge according to IEC 1 KV 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 protection class IP on the front according to IEC 60529 Inger-safe, for vertical contact from the front touch protection on the front according to IEC 60529 Inger-safe, for vertical contact from the front category according to FS4-1 none connections/ Terminals Product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections • solid • solid 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) • at AWG cables standed 2x (18 14) connectable conductor cross-section • solid • solid 0.5 2.5 mm² • solid 0.5 2.5 mm² • solid 18 14 • stranded 18 14 • stranded 18 14 • stranded 57 mm mounting position arry fastening method	 due to burst according to IEC 61000-4-4 	2 kV network connection / 1 kV control connection
61000.4-5 10 V/m field-based interference according to IEC 61000.4-2 10 V/m selectrostic discharge according to IEC 61000.4-2 4 kV contact discharge / 8 kV air discharge Safety related data protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 IP20 Integrating to related data control circuit type of insulation Basic insulation Integrating to related data connections / Terminals product component removable terminal for auxiliary and control circuit No type of electrical connection for auxiliary and control circuit screw-type terminals Ype of electrical connecton for auxiliary and control circuit type of electrical connecton for auxiliary and control circuit screw-type terminals Ype of electrical connecton for auxiliary and control circuit type of electrical connecton for auxiliary and control circuit screw-type terminals Ype of electrical connecton for auxiliary and control circuit type of electrical connecton for auxiliary and control circuit screw-type terminals Ype of electrical connecton for auxiliary and control circuit type of electrical connecton for auxiliary and control circuit screw-type terminals Ype of electrical connecton for auxiliary and control circuit solid 2x (151	 due to conductor-earth surge according to IEC 61000-4-5 	2 kV
electrostatic discharge according to IEC 61000-4-2 4 kV contact discharge / 8 kV air discharge Safety rolated data		1 kV
Safety rolated data protection class IP on the front according to IEC 60529 IIP20 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front type of insulation Basic insulation category according to EN 954-1 none Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit serwe-type terminals type of electrical connection for auxiliary and control circuit serwe-type terminals type of connectable conductor cross-sections serwe-type terminals • solid 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) • at AWG cables solid 2x (18 14) connectable conductor cross-section 0.5 2,5 mm² • solid 18 14 • stranded 18 14 tightening torque 0.8 1,2 N m design of the thread of the connection screw M3	field-based interference according to IEC 61000-4-3	10 V/m
protection class IP on the front according to IEC 60529 IIP20 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front type of insulation Basic insulation category according to EN 954-1 none Connections/ Terminals No product component removable terminal for auxiliary and control circuit screw-type terminals type of electrical connection for auxiliary and control circuit screw-type terminals • solid 2x (0,5 1,5 mm ³), 2x (0,75 2,5 mm ³) • solid 2x (15 1,5 mm ³), 2x (0,75 2,5 mm ³) • at AWG cables solid 2x (18 14) • at AWG cables stranded 2x (18 14) • solid 0.5 2.5 mm ³ • solid 18 14 • solid 18 14 • solid 18 14 • solid 18 14 itghtening torque 0.8 1.2 Nrm design of the thread of the connecton screw M3 Installation/ mounting / dimensions mounting position any fastening method 57 rm fastening method 57 rm 73		4 kV contact discharge / 8 kV air discharge
Iouch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front type of insulation Basic insulation category according to EN 954-1 none Connections/Terminals	Safety related data	
type of insulation Basic insulation category according to EN 954-1 none Connections/Terminals Product component removable terminal for auxiliary and control circuit No grouter component removable terminal for auxiliary and control circuit screw-type terminals Vertical conductor cross-sections • solid 2x (0,51,5 mm³), 2x (0,75 2,5 mm³) • (0,51,5 mm³), 2x (0,75 2,5 mm³) • at AWG cables solid 2x (18 14) • at AWG cables stranded 2x (18 14) • at AWG cables stranded 0.5 2,5 mm³ • (1,6) • (1,6) • solid 0.5 2,5 mm³ • (1,6) • (1,6) • (1,6) • solid 0.5 2,5 mm³ • (1,6) • (1,6) • (1,6) • solid 0.5 2,5 mm³ • (1,6) • (1,6) • (1,6) • solid 0.5 2,5 mm³ • (1,6) • (1,6) • (1,6) • solid 0.5 2,5 mm³ • (1,6) • (1,6) • (1,6) • solid 0.5 2,5 mm³ • (1,6) • (1,6) • (1,6) • solid 0.5 2,5 mm³ • (1,6) • (1,6) • (1,6	protection class IP on the front according to IEC 60529	IP20
j. J. Horizontalis Jone Category according to EN 954-1 none Connections/Terminals product component removable terminal for auxiliary and control circuit screw-type terminals type of electrical connection for auxiliary and control circuit screw-type terminals type of electrical connection for auxiliary and control circuit screw-type terminals type of electrical connection for auxiliary and control circuit screw-type terminals type of electrical connection for auxiliary and control circuit screw-type terminals type of electrical connectable conductor cross-sections 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) • at AWG cables stranded 2x (18 14) • at AWG cables stranded 2x (18 14) • at AWG cables stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • solid 0.5 2.5 mm² • solid 18 14 • stranded 18 14 • stranded 18 14 • stranded 18 14 tightening torque 0.8 1.2 Nm design of the thread of the connection screw M3 Installation/ mounting dimensions any mounting position any fatening method	touch protection on the front according to IEC 60529	
Connections/ Terminals No product component removable terminal for auxiliary and control circuit No type of electrical connection for auxiliary and control circuit screw-type terminals type of electrical connectable conductor cross-sections \$2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) • solid 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) • at AWG cables solid 2x (18 14) • at AWG cables stranded 2x (18 14) connectable conductor cross-section 0.5 2.5 mm² • solid 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • dinely stranded with core end processing 0.5 2.5 mm² • solid 0.5 2.5 mm² • solid 8 14 • solid 8 14 • stranded 18 14 ightening torque 0.8 1.2 Nm design of the thread of the connection screw M3 Installation/ mounting/ dimensions any fastening method screw and snap-on mounting onto 35 mm DIN rail height 57 mm width 45 mm depth 73 mm required spacing <		Basic insulation
product component removable terminal for auxiliary and control circuit No type of electrical connection for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections 		none
control circuit screw-type terminals type of electrical connection for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) • solid 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) • at AWG cables stranded 2x (18 14) • at AWG cables stranded 2x (18 14) • at AWG cables stranded 0.5 2,5 mm²) • finely stranded with core end processing 0.5 2,5 mm² • solid 0.5 2,5 mm² • finely stranded with core end processing 0.5 2,5 mm² • finely stranded with core end processing 0.5 2,5 mm² • finely stranded with core end processing 0.5 2,5 mm² • finely stranded with core end processing 0.5 2,5 mm² • solid 0.5 2,5 mm² • stranded 18 14 • stranded 18 14 • stranded 18 14 • stranded 18 14 • stranded 18 12 N·m design of the thread of the connection screw M3 Installation/ mounting/ dimensions any <tr< td=""><td></td><td></td></tr<>		
type of connectable conductor cross-sections • solid 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) • finely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) • at AWG cables solid 2x (18 14) • at AWG cables stranded 2x (18 14) connectable conductor cross-section - • solid 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² AWG number as coded connectable conductor cross section - • solid 18 14 • stranded 57 mm width 45 mm	control circuit	
 solid 2x (0,51,5 mm³), 2x (0,752,5 mm³) finely stranded with core end processing 2x (0,51,5 mm³), 2x (0,752,5 mm³) at AWG cables solid 2x (1814) at AWG cables stranded 2x (1814) connectable conductor cross-section solid 0.52,5 mm² AWG number as coded connectable conductor cross section solid at a stranded a		screw-type terminals
• finely stranded with core end processing2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)• at AWG cables solid2x (18 14)• at AWG cables stranded2x (18 14)• onnectable conductor cross-section• solid0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• solid0.5 2.5 mm²• solid0.5 2.5 mm²• solid18 14• stranded connectable conductor crosssection0.8 1.2 N·m• stranded18 12 N·mdesign of the thread of the connection screwM3Installation/ mounting/ dimensionsmounting positionanyfastening methodheight57 mmwidth45 mmdepth73 mmrequired spacing• with side-by-side mounting0 mm- forwards0 mm- backwards0 mm		
• at AWG cables solid 2x (18 14) • at AWG cables stranded 2x (18 14) connectable conductor cross-section • solid 0.5 2.5 mm² AWG number as coded connectable conductor cross section • solid 0.5 2.5 mm² AWG number as coded connectable conductor cross section • solid 18 14 • stranded 18 14 • stranded 0.8 1.2 N·m design of the thread of the connection screw M3 Installation/ mounting/ dimensions mounting position any fastening method height 57 mm width 45 mm depth 73 mm required spacing 0 mm • with side-by-side mounting 0 mm - forwards 0 mm		
• at AWG cables stranded 2x (18 14) connectable conductor cross-section 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² AWG number as coded connectable conductor cross section 0.5 2.5 mm² • solid 18 14 • stranded 18 14 • stranded 0.8 12 N·m design of the thread of the connection screw M3 Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail height 57 mm width 45 mm depth 73 mm required spacing 0 mm • with side-by-side mounting 0 mm - forwards 0 mm - backwards 0 mm		
connectable conductor cross-section 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² AWG number as coded connectable conductor cross section 0.5 2.5 mm² • solid 18 14 • stranded 18 14 • stranded 0.8 1.2 N·m design of the thread of the connection screw M3 Installation/ mounting/ dimensions mounting position mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail height 57 mm width 45 mm depth 73 mm required spacing 0 mm • with side-by-side mounting 0 mm - forwards 0 mm		
 solid 0.5 2.5 mm² finely stranded with core end processing 0.5 2.5 mm² AWG number as coded connectable conductor cross section solid 18 14 stranded 18 14 stranded 0.8 1.2 N·m design of the thread of the connection screw M3 Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail height soft mathematication width depth r3 mm required spacing with side-by-side mounting forwards O mm o mm backwards 		2x (18 14)
• finely stranded with core end processing 0.5 2.5 mm² AWG number as coded connectable conductor cross section • solid 18 14 • stranded 18 14 • stranded 0.8 1.2 N·m design of the thread of the connection screw M3 Installation/ mounting/ dimensions any fastening method screw and snap-on mounting onto 35 mm DIN rail height 57 mm width 45 mm depth 73 mm required spacing 0 mm • with side-by-side mounting 0 mm — forwards 0 mm — backwards 0 mm		
AWG number as coded connectable conductor cross section - • solid 18 14 • stranded 18 14 • stranded 0.8 1.2 N·m design of the thread of the connection screw M3 Installation/ mounting/ dimensions mounting position mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail height 57 mm width 45 mm depth 73 mm required spacing 0 mm • with side-by-side mounting 0 mm - forwards 0 mm		
• solid 18 14 • stranded 18 14 tightening torque 0.8 1.2 N·m design of the thread of the connection screw M3 Installation/ mounting/ dimensions mounting position mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail height 57 mm width 45 mm depth 73 mm required spacing 0 mm - forwards 0 mm - backwards 0 mm	AWG number as coded connectable conductor cross	0.5 2.5 mm²
• stranded18 14tightening torque0.8 1.2 N·mdesign of the thread of the connection screwM3Installation/ mounting/ dimensionsM3mounting positionanyfastening methodscrew and snap-on mounting onto 35 mm DIN railheight57 mmwidth45 mmdepth73 mmrequired spacing - forwards0 mm— backwards0 mm		10 14
tightening torque0.8 1.2 N·mdesign of the thread of the connection screwM3Installation/mounting/ dimensionsanymounting positionanyfastening methodscrew and snap-on mounting onto 35 mm DIN railheight57 mmwidth45 mmdepth73 mmrequired spacing - forwards0 mm- forwards0 mm- backwards0 mm		
design of the thread of the connection screw M3 Installation/ mounting/ dimensions any mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail height 57 mm width 45 mm depth 73 mm required spacing • with side-by-side mounting - forwards 0 mm - backwards 0 mm		
Installation/ mounting/ dimensions any mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail height 57 mm width 45 mm depth 73 mm required spacing • with side-by-side mounting - forwards 0 mm - backwards 0 mm		
mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail height 57 mm width 45 mm depth 73 mm required spacing o mm - forwards 0 mm - backwards 0 mm	-	
fastening method screw and snap-on mounting onto 35 mm DIN rail height 57 mm width 45 mm depth 73 mm required spacing - • with side-by-side mounting 0 mm - forwards 0 mm - backwards 0 mm		any
height 57 mm width 45 mm depth 73 mm required spacing - forwards - forwards 0 mm - backwards 0 mm		
width 45 mm depth 73 mm required spacing - forwards - forwards 0 mm - backwards 0 mm	· · · · · ·	
required spacing • with side-by-side mounting — forwards 0 mm — backwards 0 mm	height	
with side-by-side mounting — forwards O mm Dackwards O mm		
forwards 0 mm backwards 0 mm	width	45 mm
— backwards 0 mm	width depth	45 mm
	width depth required spacing	45 mm
— upwards 0 mm	width depth required spacing • with side-by-side mounting	45 mm 73 mm
	width depth required spacing • with side-by-side mounting — forwards	45 mm 73 mm 0 mm

— downwards	3		0 mm		
— at the side			0 mm		
 for grounded par 	rts				
— forwards			0 mm		
— backwards			0 mm		
— upwards			0 mm		
— at the side			0 mm		
— downwards			0 mm		
 for live parts 			0 mm		
- forwards			0 mm		
— backwards			0 mm		
			0 mm		
— upwards					
— downwards	6		0 mm		
— at the side			0 mm		
Ambient conditions					
	eight above sea level max	kimum	2 000 m		
ambient temperature					
 during operation 			-25 +60 °C		
 during storage 			-40 +85 °C		
during transport			-40 +85 °C		
relative humidity during	g operation		10 95 %		
Certificates/ approvals					
General Product App	roval			EMC	Declaration of Con- formity
	<u>Confirmation</u>	UL u	EHE	RCM	CE EG-Konf.
Declaration of Con- formity	Test Certificates	Marine / Shipp	ing		
UK CA	Type Test Certific- ates/Test Report	BUREAU VERITAS	Lloyd's Register us	RINA	RMRS
Marine / Shipping	other				
	<u>Confirmation</u>				
Further information					
Further information Siemens has decided	to exit the Russian mar	ket (see here).			
Siemens has decided https://press.siemens.co Siemens is working o Please contact your loo EAC relevant market (o Information on the pa	other than the sanctioned	e/siemens-wind-dc rent EAC certifica status of validity of EAEU member sta	ates. The EAC certification if you i	ntend to import or offer to s	supply these products to an
Siemens has decided https://press.siemens.c Siemens is working o Please contact your loo EAC relevant market (o Information on the pa https://support.industry	com/global/en/pressrelease on the renewal of the cur cal Siemens office on the other than the sanctioned	e/siemens-wind-dc rent EAC certifica status of validity of EAEU member sta iew/109813875	ates. The EAC certification if you i	ntend to import or offer to s	supply these products to an
Siemens has decided https://press.siemens.c Siemens is working o Please contact your loo EAC relevant market (o Information on the pa https://support.industry	com/global/en/pressrelease on the renewal of the cur cal Siemens office on the so other than the sanctioned ackaging .siemens.com/cs/ww/en/v vnloadcenter (Catalogs, 1 om/ic10	e/siemens-wind-dc rent EAC certifica status of validity of EAEU member sta iew/109813875	ates. The EAC certification if you i	ntend to import or offer to s	supply these products to an

Cax online generator

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

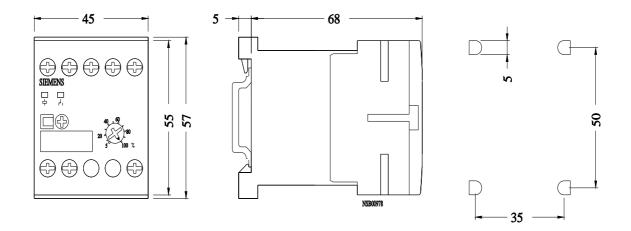
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

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



last modified:

11/21/2022 🖸