

control supply voltage frequency 1	50 ... 60 Hz
control supply voltage 1 at DC rated value	24 V
operating range factor control supply voltage rated value at DC - initial value - full-scale value	0.85 1.1
operating range factor control supply voltage rated value at AC at 50 Hz - initial value - full-scale value	0.85 1.1
operating range factor control supply voltage rated value at AC at 60 Hz - initial value - full-scale value	0.85 1.1
Switching Function	
switching function - ON-delay - ON-delay/instantaneous contact - passing make contact - passing make contact/instantaneous contact - OFF delay	Yes No No No No
switching function - flashing symmetrically with interval start/instantaneous - flashing symmetrically with interval start - flashing symmetrically with pulse start/instantaneous - flashing symmetrically with pulse start - flashing asymmetrically with interval start - flashing asymmetrically with pulse start	No No No No No No
switching function - star-delta circuit with delay time - star-delta circuit	No No
switching function with control signal - additive ON-delay - passing break contact - passing break contact/instantaneous - OFF delay - OFF delay/instantaneous - pulse delayed - pulse delayed/instantaneous - pulse-shaping - pulse-shaping/instantaneous - additive ON-delay/instantaneous - ON-delay/OFF-delay/instantaneous - passing make contact - passing make contact/instantaneous contact	No No No No No No No No No No No No No No
switching function of interval relay with control signal - retrotriggerable with deactivated control signal/instantaneous contact - retrotriggerable with switched-on control signal - retrotriggerable with switched-on control signal/instantaneous contact - retriggerable with deactivated control signal	No No No No
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 - instantaneous contact	0 0
number of NO contacts delayed switching	0

instantaneous contact	0
number of CO contacts	
delayed switching	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 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	
category according to EN 954-1	none
Electrical Safety	
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
Connections/ Terminals	
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	
solid	2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²)
finely stranded with core end processing	2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²)
for AWG cables solid	2x (18 ... 14)
for AWG cables stranded	2x (18 ... 14)
connectable conductor cross-section	
solid	0.5 ... 2.5 mm ²
finely stranded with core end processing	0.5 ... 2.5 mm ²
AWG number as coded connectable conductor cross section	
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	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

— upwards	0 mm
— downwards	0 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	EMV
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EMV	Test Certificates	Maritime application
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[KC](#)

[Type Test Certificates/Test Report](#)



Maritime application	other	Environment
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[Confirmation](#)

[Environmental Confirmations](#)

Further information

Information on the packaging

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

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RP2025-1AP30>

Cax online generator

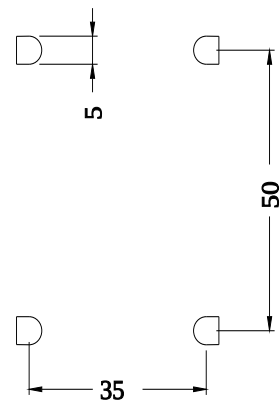
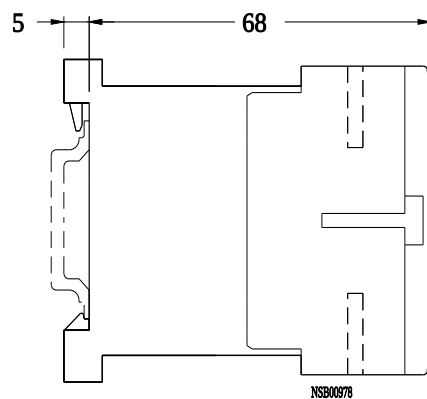
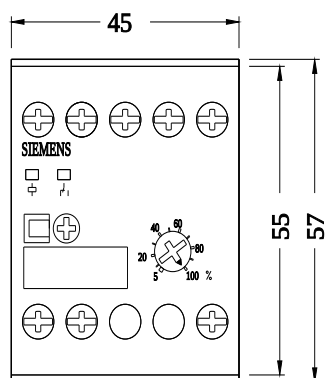
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2025-1AP30>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RP2025-1AP30>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2025-1AP30&lang=en



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