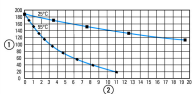


## Back-up of real-time clock

Back-up of real-time clock			
			① Backup time (hours) with fully charged double layer capacitor ② Service life (years)
Accuracy of the real-time clock		s/day	Normally $\pm 2$ ( $\pm 0.5$ h/year), may vary up to $\pm 5$ s/day depending on the ambient temperature

## Accuracy

Resolution			
Range "S"		ms	50
Range "M:S"		s	1
Range "H:M"		min	1

## Repetition accuracy

Resolution			
Range "S"		ms	50
Range "M:S"		s	1
Range "H:M"		min	1

## Retentive memory

Read/write cycles (minimum)			10000000000000 ( $10^{14}$ )
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## Power supply

Rated operational voltage	$U_e$	V	24 DC (-15/+20%)
Permissible range	$U_e$		20.4 - 28.8 V DC
Residual ripple		%	$\leq 5$
Input current			
Input current 115/230 V AC		mA	< 250
Voltage dips		ms	$\leq 10$ (IEC/EN 61131-2)
Heat dissipation		W	< 6
Potential isolation			From the inputs: yes: no from the outputs: yes to PC interface: no to easyLink: no to easyNet: yes

## Network easyNet

Stations		Number	max. 8
Data transfer rate/distance			1000 kBit/s, 6 m 500 kBit/s, 25 m 250 kBit/s, 40 m 125 kBit/s, 125 m 50 kBit/s, 300 m 20 kBit/s, 700 m 10 kBit/s, 1000 m
Potential isolation			
Potential isolation between inputs and internal power supply			yes
Potential isolation			from power supply: yes From the inputs: yes from the outputs: yes to PC interface: yes to memory card: yes to easyLink: no to easyNet: yes
Bus termination			yes (first and last station)
Connection technique			RJ45, 8-pole

## Digital inputs 24 V DC

Number			14
Status indication			LCD display
Potential isolation			from power supply: no between digital inputs: no from the outputs: yes to the interface: no to the memory card: no to easyLink: no to easyNet: yes
Rated signal voltage	$U_e$	V DC	24
On 0 signal	$U_e$	V DC	< 5
On 1 signal	$U_e$	V DC	> 15,0

Input current on 1 signal			
IS1 - IS14		mA	5.7 (at 24 V DC)
Hardware delay time from 0 to 1		ms	
			Debounce ON: 24 Debounce OFF: 0.06 (IS1, IS2), 0.17 (IS3 to IS14)
Hardware delay time from 1 to 0		ms	
			Debounce ON: 24 Debounce OFF: 0.08 (IS1, IS2), 0.22 (IS3 to IS14)
Cable length (unscreened)		m	100
Single cable length of test signal output to the device input (shielded)		m	1000
Total of single cable lengths from one test signal output to the device inputs (shielded)		m	3000
Maximum rotary frequency at device inputs IS1 and IS2, when using function block OM or ZM		Hz	1000
Maximum switching frequency at input (does not apply to I1, I2, if function block SM or OM is used)		Operations/h	300

### Test signal outputs

Number			4 (T1 to T4)
Voltage		V DC	24
Potential isolation			No

### Relay outputs

			1 (redundant)
Outputs in groups of			1
Parallel switching of outputs for increased output			Not permissible
Safety level			3 redundant relay outputs, 6 months test interval According to EN 50156
Protection of an output relay			Fuse: 6 A gL/gG, Circuit-breaker with C characteristic: 4 A (only permissible with 24V DC), Short-circuit current $I_K < 250$ A
Potential isolation			from power supply: yes From the inputs: yes between digital inputs: yes to the interface: yes to easyNet: yes to easyLink: yes Safe isolation according to EN 50178: 300 V AC Basic isolation: 600 V AC
Lifespan, mechanical	Operations	$\times 10^6$	10
Contacts			
Conventional thermal current	$I_{th}$	A	6
Rated impulse withstand voltage $U_{imp}$ of contact coil		kV	6
Rated operational voltage	$U_e$	V AC	250
Rated insulation voltage	$U_i$	V AC	250
safe isolation between coil and contact		V AC	300 in accordance with 50178
Switching capacity			DC-13, 24 V DC, 0.1 Hz: 40000 operations (in accordance with IEC 60947-5-1) AC-15, 230 V AC, 3 A: 80000 operations (in accordance with IEC 60947-5-1) DC: B300 (in accordance with UL 508) AC: R300 (in accordance with UL 508)
Switching frequency			
Mechanical operations		$\times 10^6$	10
Switching frequency		Hz	15

### Transistor outputs

Number			4
Rated operational voltage	$U_e$	V DC	24
Permissible range	$U_e$		20.4 - 28.8 V DC
Residual ripple		%	5
Supply current			
On 0 signal	Normally/max.	mA	30/50
On 1 signal	Normally/max.	mA	60/100
Protection against polarity reversal			Yes
Potential isolation			from power supply: yes From the inputs: yes between digital inputs: no