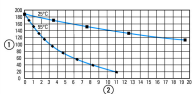


Back-up of real-time clock

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 ± 2 (± 0.5 h/year), may vary up to ± 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		%	≤ 0
Input current			
Input current 115/230 V AC		mA	< 250
Voltage dips		ms	≤ 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

			4
Outputs in groups of			1
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

Residual ripple		%	5
Output status indication			LCD-display

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	0
Heat dissipation per pole, current-dependent	P_{vid}	W	0
Equipment heat dissipation, current-dependent	P_{vid}	W	0
Static heat dissipation, non-current-dependent	P_{vs}	W	6
Heat dissipation capacity	P_{diss}	W	0
Operating ambient temperature min.		°C	-25