

Technical specifications

		Synchronous time switches without power reserve					Quartz-clock time switches with power reserve					
		7LF5 300-1	7LF5 300-5	7LF5 300-6	7LF5 300-7	7LF5 301-0	7LF5 301-1	7LF5 301-4	7LF5 301-5	7LF5 301-6	7LF5 301-7	7LF5 305-0
Standards		EN 60730-1, -2-7, UL 917										
Approved acc. to		UL 60730/UL 917, CSA C22.2 No. 14 and 177										
Operating mode		Synchronous					Quartz					
• Time program		Day	Day	Week	Hour	Day	Day	Day	Week	Day	Week	Day
Supply												
• Rated control supply voltage U_c	V AC											
	x U_c	230	0.85 ... 1.1				230	0.85 ... 1.1				
• Rated frequency	Hz	50					50					
	- frequency range	50					50/60					
• Rated power dissipation P_v	VA	1					1	0.2	0.2	1	1	1
Channels/contacts												
• Switching channels	V AC	1					1					
		250					250					
		- rated operational voltage U_e										
- rated operational current I_e	A	16					16					
	at p.f. = 1	4					4					
- at p.f. = 0.6	A	1NO	1CO	1CO	1NO	1CO	1NO	1CO	1CO	1CO	1CO	1CO
		20					20					
• Contacts												
- mechanical switching cycles		in millions										
- electrical switching cycles		(at p.f. = 1)										
		100000										
• Minimum contact load	V; mA	4; 1					4; 1					
	A	5					5					
- incandescent lamp load	VA	60					60					
	at 7 μ A	1400					1400					
- fluorescent lamps uncorrected												
Safety												
• Different phases permissible between drive/contact		Yes					Yes					
• Electrical isolation, creepage distances and clearances, actuator/contact		mm	8/6					8/6				
• Rated impulse withstand voltage U_{imp}		kV	4					4				
Drive/contact												
- EMC: burst acc. to IEC 61000-4-4	kV	> 4.4					> 4.4					
	kV	> 2.0					> 2.0					
- EMC: surge acc. to IEC 61000-4-5	kV	> 8.0					> 8.0					
	kV											
- electrostatic discharge acc. to IEC 61000-4-2												
• Power reserve storage	a	--					100 h	6	100 h			
	h	--					48	--	48			
- minimum loading time	h	--					NiMH cell	Li primary cell	NiMH cell			
		--					6	10	6			
- battery type	a	--					5					
	at 20 °C	--										
- service life	at 40 °C	--										
	a											
• Overvoltage category acc. to EN 61010-1		III					III					
Function												
• Minimum switching sequences	min	30	30	240	5	30	30	30	240	30	240	30
• Make and break cycles	min	15	15	120	37.5 s	10	15	15	120	15	120	10
• Switching accuracy	min	± 5	± 5	± 30	± 0.2	± 5	± 5	± 5	± 30	± 5	± 30	± 5
• Clock errors per day		System-synchronized					± 2.5 s	± 60 s/year		± 2.5 s		
Connections												
• Terminals $\pm$ screw (Pozidriv)		PZ 1					PZ 1					
• Conductor cross-sections of main current paths												
- rigid, max.	mm ²	4					4					
	mm ²	1.5					1.5					
- rigid, min.	mm ²	2.5					2.5					
	mm ²	4					4					
- flexible, with end sleeve												
- flexible, without end sleeve												
Environmental conditions												
• Permissible ambient temperature	°C	-10 ... +55					-10 ... +55					
• Storage temperature	°C	-10 ... +60					-10 ... +60					
• Resistance to climate acc. to EN 60068-1		10/055/21					10/055/21					
• Degree of protection acc. to EN 60529		IP20, with connected conductors					IP20, with connected conductors					
• Safety class acc. to EN 61140		II					II					