

• Intuitive operation of 3-way joystick (mini time switch).

Technical specifications

			Mini 7LF4 401-5	Top 7LF4 411 7LF4 412	Profi 7LF4 421 7LF4 422	Astro 7LF4 431 7LF4 432	Expert 7LF4 444
Standards			EN 60730-1, -2-7; VDE 0631-1, -2-7; UL 60730				
Approved acc. to			VDE, UL 60730/UL 917 CSA C22.2 No. 14 and 177				
Supply							
• Rated control supply voltage U_c	V AC		110 ... 240	120, 230	120, 230	230	120/230
	V AC/DC		--	--	24	--	24
	- Operating range	x U_c	0.85 ... 1.1	0.85 ... 1.1	0.85 ... 1.1 ¹⁾	0.85 ... 1.1	80 .. 253 V ¹⁾
- Frequency ranges	Hz		50 ... 60	50 ... 60	50 ... 60 ²⁾	50 ... 60	50 ... 60 ²⁾
							2.5/4 ³⁾
• Rated power dissipation P_v	VA		0.035	2	2	2	
Channels/contacts							
• Switching channels			1	1 or 2			4
	- Rated operational voltage U_e	V AC	250				
	- Rated operational current I_e at p.f. = 1	A	16				
- Rated operational current I_e at p.f. = 0.6		A	10				
			1 CO	1 or 2 CO			4 CO
			> 5	10			
• Contacts			6000 (20 A)	100000			
- Mechanical switching cycles (in millions)							
- Electrical switching cycles at p.f. = 1							
• Minimum contact load		V; mA	12; 100				
- Incandescent lamp load		A	5	8			
- Fluorescent lamp loads at 7 μ F		VA	58	60			
Uncorrected		VA	1400				
Safety							
• Different phases permissible between drive/contact			Yes				
• Rated impulse withstand voltage U_{imp}	kV		4				
	- EMC: burst acc. to IEC 61000-4-4	kV	> 4.4				
	- EMC: surge acc. to IEC 61000-4-5	kV	> 2.0				
	- Electrostatic discharge acc. to IEC 61000-4-2	kV	> 8.0				
• Power reserve storage	Mains/battery	a	6/2	6		5	
- Battery type			Li primary cell				
• Program memory	Non-volatile		--	Yes			
• Overvoltage category	acc. to DIN EN 61010-1		III				
Function							
• Minimum switching sequences	min		1				1 s
• Make and break cycles	min		1				1 s
• Clock errors per day	Typical	s/day	+0.3 $\pm$ 1 ⁴⁾	$\pm$ 0.86	$\pm$ 0.2		
• Control input	Terminal S		--			Yes	
• Memory spaces							
- Programs ⁵⁾			28	56 (2 $\times$ 28)		28 (2 $\times$ 14)	4 $\times$ 3 $\times$ 28
- Pulse (alternatively)			--		84	--	
- Pulse cycle			--		1 s ... < 60 min	--	
Terminals							
• Terminals $\pm$ screw (Pozidriv)			PZ 1				
• Conductor cross-sections of main current paths							
	- Rigid, max.	mm ²	4				
	- Rigid, min.	mm ²	1.5				
	- Flexible with end sleeve max.	mm ²	2.5				
Environmental conditions							
• Permissible ambient temperature		°C	-10 ... +55	-20 ... +55			
• Storage temperature		°C	-20 ... +60				
• Resistance to climate	acc. to EN 60068-1		10/055/21	20/055/21			
• Degree of protection	acc. to EN 60529		IP20, with connected conductors				
• Safety class	acc. to EN 60730-1		II				

1) For 24 V devices (7LF4 421-2, 7LF4 422-2 and 7LF4 444-2): tolerance -10/+10 %; operating range 0.9 ... 1.1 $\times$ U_c .

2) For 24 V devices (7LF4 421-2, 7LF4 422-2 and 7LF4 444-2): frequency range 0 ... 60 Hz.

3) For 24 V device (7LF4 444-2): P_v = 4 VA.

4) At 25 °C a clock error of +0.3 s is assumed. Accuracy may deviate by a further $\pm$ 1 s around this value.

5) A program consists of an ON time, an OFF time and assigned ON and OFF days or day blocks.