A.3 Technical data: LOGO! DM8 230R and LOGO! DM16 230R

	LOGO! DM8 230R	LOGO! DM16 230R
Power supply		
Input voltage	115 VAC/VDC to 240 VAC/VDC	115 VAC/VDC to 240 VAC/VDC
Permissible range	85 VAC to 265 VAC 100 VDC to 253 VDC	85 VAC to 265 VAC 100 VDC to 253 VDC
Permissible mains frequency	47Hz to 63 Hz	
Power consumption • 115 VAC • 240 VAC • 115 VDC • 240 VDC	 • 20 mA to 40 mA • 15 mA to 30 mA • 10 mA to 25 mA • 5 mA to 15 mA	 • 20 mA to 40 mA • 15 mA to 30 mA • 10 mA to 25 mA • 5 mA to 15 mA
Voltage failure buffering • 115 VAC/VDC • 240 VAC/VDC	 • Typ. 10 ms • Typ. 20 ms	 • Typ. 10 ms • Typ. 20 ms
Power loss at • 115 VAC • 240 VAC • 115 VDC • 240 VDC	 • 2.3 W to 4.6 W • 3.6 W to 7.2 W • 1.2 W to 2.9 W • 1.2 W to 3.6 W	 • 2.3 W to 4.6 W • 3.6 W to 7.2 W • 1.2 W to 2.9 W • 1.2 W to 3.6 W
Digital inputs		
Number	4	8
Electrical isolation	No	No
Number of high speed inputs	0	0
Input frequency • Normal input • High speed input	 • Max. 4 Hz • - -	 • Max. 4 Hz • - -
Max. continuous permissible voltage	265 VAC 253 VDC	265 VAC 253 VDC
Input voltage L1 • Signal 0 • Signal 1 • Signal 0 • Signal 1	 • < 40 VAC • > 79 VAC • < 30 VDC • > 79 VDC	 • < 40 VAC • > 79 VAC • < 30 VDC • > 79 VDC
Input current at • Signal 0 • Signal 1 • Signal 0 • Signal 1	 • < 0.05 mA AC • > 0.08 mA AC • < 0.06 mA DC • > 0.13 mA DC	 • < 0.05 mA AC • > 0.08 mA AC • < 0.06 mA DC • > 0.13 mA DC

	LOGO! DM8 230R	**LOGO! DM16 230R**
Delay time at 0 to 1:		
• 120 VAC	• Typ. 40 ms	• Typ. 40 ms
• 240 VAC	• Typ. 30 ms	• Typ. 30 ms
• 120 VDC	• Typ. 25 ms	• Typ. 25 ms
• 240 VDC	• Typ. 20 ms	• Typ. 20 ms
Delay time at 1 to 0:		
• 120 VAC	• Typ. 45 ms	• Typ. 45 ms
• 240 VAC	• Typ. 70 ms	• Typ. 70 ms
• 120 VDC	• Typ. 60 ms	• Typ. 60 ms
• 240 VDC	• Typ. 75 ms	• Typ. 75 ms
Line length (unshielded)	Max. 100 m	Max. 100 m
Digital outputs		
Number	4	8
Output type	Relay outputs	Relay outputs
Electrical isolation	Yes	Yes
In groups of	1	1
Control of a digital input	Yes	Yes
Continuous current I_{th}	Recommended range of application ≥ 100 mA at 12 VAC/VDC Max. 5 A per relay	Recommended range of application ≥ 100 mA at 12 VAC/VDC Max. 5 A per relay
Relay rated voltage	240 VAC/VDC	240 VAC/VDC
Surge current	Max. 30 A	Max. 30 A
Incandescent lamp load (25000 switching cycles) at: 230/240 VAC 115/120 VAC	 1000 W 500 W	 1000 W 500 W
Fluorescent tubes with ballast (25000 switching cycles)	10 x 58 W (at 230/240 VAC)	10 x 58 W (at 230/240 VAC)
Fluorescent tubes, conventionally compensated (25000 switching cycles)	1 x 58 W (at 230/240 VAC)	1 x 58 W (at 230/240 VAC)
Fluorescent tubes, uncompensated (25000 switching cycles)	10 x 58 W (at 230/240 VAC)	10 x 58 W (at 230/240 VAC)
Short circuit-proof cos 1	Power protection B16, 600 A	Power protection B16, 600 A
Short circuit-proof cos 0.5 to 0.7	Power protection B16, 900 A	Power protection B16, 900 A
Derating	None; across the entire temperature range	None; across the entire temperature range
Parallel output circuits for power increase	Not permitted	Not permitted
Protection of output relay (if desired)	Max. 16 A, characteristic B16	Max. 16 A, characteristic B16
Line length (unshielded)	Max. 100 m	Max. 100 m
Switching rate		
Mechanical	10 Hz	10 Hz
Ohmic load/lamp load	2 Hz	2 Hz
Inductive load	0.5 Hz	0.5 Hz

Order numbers

E

Modules

Variant	Designation	Order number
LOGO! Basic (Base Module with display)	LOGO! 12/24RCE *	6ED1052-1MD08-0BA1
	LOGO! 24CE *	6ED1052-1CC08-0BA1
	LOGO! 24RCE (AC/DC)	6ED1052-1HB08-0BA1
	LOGO! 230RCE (AC/DC)	6ED1052-1FB08-0BA1
LOGO! Pure (Base Module without display)	LOGO! 12/24RCEo *	6ED1052-2MD08-0BA1
	LOGO! 24CEo *	6ED1052-2CC08-0BA1
	LOGO! 24RCEo (AC/DC)	6ED1052-2HB08-0BA1
	LOGO! 230RCEo (AC/DC)	6ED1052-2FB08-0BA1
Digital modules	LOGO! DM8 12/24R	6ED1055-1MB00-0BA2
	LOGO! DM8 24	6ED1055-1CB00-0BA2
	LOGO! DM8 24R	6ED1055-1HB00-0BA2
	LOGO! DM8 230R	6ED1055-1FB00-0BA2
	LOGO! DM16 24	6ED1055-1CB10-0BA2
	LOGO! DM16 24R	6ED1055-1NB10-0BA2
	LOGO! DM16 230R	6ED1055-1FB10-0BA2
Analog modules	LOGO! AM2	6ED1055-1MA00-0BA2
	LOGO! AM2 RTD	6ED1055-1MD00-0BA2
	LOGO! AM2 AQ (0...10V, 0/4...20mA)	6ED1055-1MM00-0BA2
Text Display module with Ethernet interfaces	LOGO! TDE	6ED1055-4MH08-0BA1

*: Also with analog inputs

Accessories

Accessories	Designation	Order number
LOGO!Soft Comfort DVD	LOGO!Soft Comfort V8.3	6ED1058-0BA08-0YA1
Switching modules	LOGO! Contact 24 V	6ED1057-4CA00-0AA0
	LOGO! Contact 230 V	6ED1057-4EA00-0AA0
Power modules	LOGO! Power 12V/1.9A	6EP1321-1SH02
	LOGO! Power 12V/4.5A	6EP1322-1SH02
	LOGO! Power 24V/1.3A	6EP1331-1SH02
	LOGO! Power 24V/2.5A	6EP1332-1SH42
	LOGO! Power 24V/4A	6EP1332-1SH51
	LOGO! Power 5V/3A	6EP1311-1SH02
	LOGO! Power 5V/6.3A	6EP1311-1SH12
	LOGO! Power 15V/1.9A	6EP1351-1SH02
	LOGO! Power 15V/4A	6EP1352-1SH02