

Overview



- Expansion modules for the connection to LOGO! Modular
- With digital inputs and outputs, analog inputs or analog outputs

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Technical specifications

	6ED1 055-1CB00-0BA0	6ED1 055-1HB00-0BA0	6ED1 055-1MB00-0BA1	6ED1 055-1FB00-0BA1
Supply voltages				
Rated value				
• DC 12 V			Yes	
• DC 24 V	Yes	Yes	Yes	
• DC 115 V				Yes
• DC 230 V				Yes
• permissible range, lower limit (DC)	20.4 V	20.4 V	10.8 V	100 V
• permissible range, upper limit (DC)	28.8 V	28.8 V	28.8 V	253 V
• AC 24 V		Yes		
• AC 115 V				Yes
• AC 230 V				Yes
• permissible range, lower limit (AC)		20.4 V		85 V
• permissible range, upper limit (AC)		26.4 V		265 V
Digital inputs				
Number of digital inputs	4	4	4	4
Digital outputs				
Number of digital outputs	4	4; Relay	4; Relay	4; Relay
Short-circuit protection of the output	Yes; electrical (1 A)	No; external fusing necessary	No; external fusing necessary	No; external fusing necessary
Relay outputs				
Switching capacity of the contacts				
• with inductive load, max.		3 A	3 A	3 A
• with resistive load, max.		5 A	5 A	5 A
• Thermal continuous current, max.	0.3 A			
EMC				
• Emission of radio interference to EN 55 011 (limit class B)	Yes	Yes	Yes	Yes

LOGO! logic module

LOGO! modular

LOGO! modular expansion modules

Technical specifications (continued)

	6ED1 055-1CB00-0BA0	6ED1 055-1HB00-0BA0	6ED1 055-1MB00-0BA1	6ED1 055-1FB00-0BA1
Environmental requirements				
Operating temperature				
• min.	0 °C	0 °C	0 °C	0 °C
• max.	55 °C	55 °C	55 °C	55 °C
Degree of protection				
IP 20	Yes	Yes	Yes	Yes
Standards, approvals, certificates				
CSA approval	Yes	Yes	Yes	Yes
developed to IEC1131	Yes	Yes	Yes	Yes
FM approval	Yes	Yes	Yes	Yes
to VDE 0631	Yes	Yes	Yes	Yes
Marine approval	Yes	Yes	Yes	Yes
UL Approval	Yes	Yes	Yes	Yes
Dimensions				
Dimensions				
• Mounting	on 35 mm DIN rail, 2 spacing units wide	on 35 mm DIN rail, 2 spacing units wide	on 35 mm DIN rail, 2 spacing units wide	on 35 mm DIN rail, 2 spacing units wide
• Width	36 mm; 2 TE	36 mm; 2 TE	36 mm; 2 TE	36 mm; 2 TE
• Height	90 mm	90 mm	90 mm	90 mm
• Depth	55 mm	55 mm	55 mm	55 mm

	6ED1 055-1CB10-0BA0	6ED1 055-1NB10-0BA0	6ED1 055-1FB10-0BA0
Supply voltages			
Rated value			
• DC 24 V	Yes	Yes	
• DC 115 V			Yes
• DC 230 V			Yes
• permissible range, lower limit (DC)	20.4 V	20.4 V	100 V
• permissible range, upper limit (DC)	28.8 V	28.8 V	253 V
• AC 115 V			Yes
• AC 230 V			Yes
• permissible range, lower limit (AC)			85 V
• permissible range, upper limit (AC)			265 V
• permissible frequency range, lower limit			47 Hz
• permissible frequency range, upper limit			63 Hz

	6ED1 055-1CB10-0BA0	6ED1 055-1NB10-0BA0	6ED1 055-1FB10-0BA0
Digital inputs			
Number of digital inputs	8	8	8
Input voltage			
• for signal "0"	< 5 V DC	< 5 V DC	< 40 V AC; < 30 V DC
• for signal "1"	> 12 V DC	> 12 V DC	> 79 V AC; > 79 V DC
Input current			
• for signal "0", max. (permissible quiescent current)	1 mA	1 mA	0.03 mA
• for signal "1", typ.	2 mA	2 mA	0.08 mA
Input delay (for rated value of input voltage)			
• for standard inputs			
- at "0" to "1", max.	1.5 ms	1.5 ms	50 ms
- at "1" to "0", max.	1.5 ms	1.5 ms	50 ms

Technical specifications (continued)

	6ED1 055-1CB10-0BA0	6ED1 055-1NB10-0BA0	6ED1 055-1FB10-0BA0
Digital outputs			
Number of digital outputs	8	8; Relay	8; Relay
Short-circuit protection of the output	Yes; electrical (1 A)	No; external fusing necessary	external fusing necessary
Lamp load, max.		1 000 W; 500 W at 115 V AC	1 000 W; 500 W at 115 V AC
Controlling a digital input	Yes	Yes	Yes
Parallel switching of 2 outputs			
• for increased power	No	No	No
Switching frequency			
• with resistive load, max.	10 Hz	2 Hz	2 Hz
• with inductive load, max.	0.5 Hz	0.5 Hz	0.5 Hz
• mechanical, max.		10 Hz	10 Hz
Relay outputs			
Switching capacity of the contacts			
• with inductive load, max.		3 A	3 A
• with resistive load, max.		5 A	5 A
• Thermal continuous current, max.	0.3 A		

	6ED1 055-1MA00-0BA0	6ED1 055-1MD00-0BA0
Supply voltages		
Rated value		
• DC 12 V	Yes	Yes
• DC 24 V	Yes	Yes
Analog inputs		
Number of analog inputs	2	2
• Voltage	Yes	
• Current	Yes	
• Resistance thermometer		Yes

	6ED1 055-1CB10-0BA0	6ED1 055-1NB10-0BA0	6ED1 055-1FB10-0BA0
EMC			
• Emission of radio interference to EN 55 011 (limit class B)	Yes	Yes	Yes
Environmental requirements			
Operating temperature			
• min.	0 °C	0 °C	0 °C
• max.	55 °C	55 °C	55 °C
Degree of protection			
IP 20	Yes	Yes	Yes
Standards, approvals, certificates			
CSA approval	Yes	Yes	Yes
developed to IEC1131	Yes	Yes	Yes
FM approval	Yes	Yes	Yes
to VDE 0631	Yes	Yes	Yes
Marine approval	Yes	Yes	Yes
UL Approval	Yes	Yes	Yes
Dimensions			
Dimensions			
• Mounting	on 35 mm DIN rail, 4 spacing units wide	on 35 mm DIN rail, 4 spacing units wide	on 35 mm DIN rail, 4 spacing units wide
• Width	72 mm; 4 TE	72 mm; 4 TE	72 mm; 4 TE
• Height	90 mm	90 mm	90 mm
• Depth	53 mm	53 mm	53 mm

	6ED1 055-1MA00-0BA0	6ED1 055-1MD00-0BA0
Input ranges (rated values), voltages		
• 0 to +10 V	Yes	
Input ranges (rated values), currents		
• 0 to 20 mA	Yes	
Input ranges (rated values), resistance thermometers		
• Pt 100		Yes

LOGO! logic module

LOGO! modular

LOGO! modular expansion modules

Technical specifications (continued)

	6ED1 055-1MA00-0BA0	6ED1 055-1MD00-0BA0
EMC		
• Emission of radio interference to EN 55 011 (limit class B)	Yes	Yes
Environmental requirements		
Operating temperature		
• min.	0 °C	0 °C
• max.	55 °C	55 °C
Degree of protection		
IP 20	Yes	Yes
Standards, approvals, certificates		
CSA approval	Yes	Yes
developed to IEC1131	Yes	Yes
FM approval	Yes	Yes
to VDE 0631	Yes	Yes
Marine approval	Yes	Yes
UL Approval	Yes	Yes
Dimensions		
Dimensions		
• Mounting	on 35 mm DIN rail, 2 spacing units wide	on 35 mm DIN rail, 2 spacing units wide
• Width	36 mm	36 mm
• Height	90 mm	90 mm
• Depth	55 mm	55 mm

	6ED1 055-1MM00-0BA0
Supply voltages	
Rated value	
• DC 12 V	No
• DC 24 V	Yes
Analog outputs	
Number of analog outputs	2
Output ranges, voltage	
• 0 to 10 V	Yes
EMC	
• Emission of radio interference to EN 55 011 (limit class B)	Yes
Environmental requirements	
Operating temperature	
• min.	0 °C
• max.	55 °C
Degree of protection	
IP 20	Yes
Standards, approvals, certificates	
CSA approval	Yes
developed to IEC1131	Yes
FM approval	Yes
to VDE 0631	Yes
Marine approval	Yes
UL Approval	Yes
Dimensions	
Dimensions	
• Mounting	on 35 mm DIN rail, 2 spacing units wide
• Width	36 mm
• Height	90 mm
• Depth	55 mm

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Ordering Data	Order No.	Order No.
LOGO! DM8 24 24 V DC supply voltage, 4 digital inputs 24 V DC, 4 digital outputs 24 V DC, 0.3 A	6ED1 055-1CB00-0BA0	
LOGO! DM16 24 24 V DC supply voltage, 8 digital inputs 24 V DC, 8 digital outputs 24 V DC, 0.3 A	6ED1 055-1CB10-0BA0	
LOGO! DM8 12/24R 12/24 V DC supply voltage, 4 digital inputs 12/24 V DC, 4 relay outputs 5 A	6ED1 055-1MB00-0BA1	
LOGO! DM8 24R 24 V AC/DC supply voltage, 4 digital inputs 24 V AC/DC, 4 relay outputs 5 A	6ED1 055-1HB00-0BA0	
LOGO! DM16 24R 24 V DC supply voltage, 8 digital inputs 24 V DC, 8 relay outputs 5 A	6ED1 055-1NB10-0BA0	
LOGO! DM8 230R 115/230 V AC/DC supply voltage, 4 digital inputs 115/230 V AC/DC, 4 relay outputs 5 A	6ED1 055-1FB00-0BA1	
LOGO! DM16 230R 115/230 V AC/DC supply voltage, 8 digital inputs 115/230 V AC/DC, 8 relay outputs 5 A	6ED1 055-1FB10-0BA0	
LOGO! AM2 12/24 V DC supply voltage, 2 analog inputs 0 to 10 V or 0 to 20 mA, 10-bit resolution	6ED1 055-1MA00-0BA0	
LOGO! AM2 PT 100 12/24 V DC supply voltage, 2 Pt100 analog inputs, temper- ature range -50 °C to 200 °C	6ED1 055-1MD00-0BA0	
LOGO! AM2 AQ 24 V DC supply voltage, 2 analog outputs 0 to 10 V	6ED1 055-1MM00-0BA0	
Accessories		
LOGO! manual		
German		6ED1 050-1AA00-0AE7
English		6ED1 050-1AA00-0BE7
French		6ED1 050-1AA00-0CE7
Spanish		6ED1 050-1AA00-0DE7
Italian		6ED1 050-1AA00-0EE7
Chinese		6ED1 050-1AA00-0KE7
LOGO! memory card		6ED1 056-1DA00-0BA0
For copying, with know-how protection		
LOGO!Soft Comfort V6.0	B8	6ED1 058-0BA02-0YA0
For programming on the PC in LAD/FBD; executes on Windows 98 SE and higher, Linux, MAC OSX; on CD-ROM		
LOGO!Soft Comfort V6.0 upgrade		6ED1 058-0CA02-0YE0
Upgrade from V1.0 to V6.0		
LOGO! PC cable		6ED1 057-1AA00-0BA0
For transferring programs between LOGO! and the PC		
LOGO! USB PC cable	B9	6ED1 057-1AA01-0BA0
For transferring the program between LOGO! and PC, including driver on CD-ROM		
LOGO! News Box, 12/24 V		
Contains LOGO! 12/24RC, LOGO! USB PC cable, LOGO!Soft Comfort V6.0, manual, screwdriver, information material		
German	B9	6ED1 057-3BA00-0AA5
English	B9	6ED1 057-3BA00-0BA5
LOGO! News Box, 230 V		
Contains LOGO! 230RC, LOGO! USB PC cable, LOGO!Soft Comfort V6.0, manual, screwdriver, information material		
German	B9	6ED1 057-3AA02-0AA0
English	B9	6ED1 057-3AA02-0BA0
LOGO! TD News Box, 12/24 V		
Contains LOGO! 12/24RCo, LOGO! TD, LOGO! USB PC cable, LOGO! Soft Comfort V6.0, manual, screwdriver, information material		
German	B9	6ED1 057-3BA10-0AA0
English	B9	6ED1 057-3BA10-0BA0

B8: Subject to export regulations: AL: N and ECCN: EAR99S

B9: Subject to export regulations: AL: N and ECCN: EAR99T