

Technical data

CPU 11x

General

Electrical Data	Micro-PLC CPU 112, 114, 115
Voltage supply L+	DC 24V via front
Status monitoring (LEDs)	via LEDs at the front-side
Slots / interfaces	MP ² I interface for data transfer
Isolation per I/O-column to the I/O-periphery	yes yes
Clock / Buffer clock and RAM	real-time clock / Lithium-Accu, 30 days buffer
System Data	
Work memory/Load memory	16/24kByte (ME 193A: 24/32, ME 193B 32/40kByte)
Processing time typ. kBit/kWord	0.25/1.2
Marker	8192 Bits (M0.0 ... M1023.7)
Timer / Counter	256 (T0 ... T255) / 256 (Z0 ... Z255)
No. of blocks FB/ FC DB	1024 (FB0 ... FB1023) / 1024 (FC0 ... FC1023) 2047 (DB1 ... DB2047)
Total addressing space I/Os	1021/1021, from that each 128Byte process image (PI)
PI inputs / PI outputs	1024 Bits (I0.0 ... I127.7) / 1024 Bits (Q0.0 ... Q127.7)
Input data / Output data	3Byte / 3Byte

CPU 112

Module specific	112-4BH02
Module width	4tier
Number of inputs DC 24V	8(12)
Number of outputs DC 24V, 0.5A	8(4)
Current consumption at L+	50mA
Alarm inputs	4
Work memory/Load memory	8/16kByte(ME193A: 24/32, ME193B: 32/40)
Dimensions (WxHxD) in mm / in inches	101.6x76x48 / 4x3x1.9

CPU 114, CPU 115

Module specific	114-6BJ02	114-6BJ52	115-6BL02 115-6BL72
Module width	6tier		
Number of inputs DC 24V	16(20)	16	16(20)
Number of outputs DC 24V, 0.5A	8(4)		16(12)
Number of Relay outputs DC 30V /AC230V, 5A	-	8	-
Current consumption at L+	80mA	150mA	90mA
Work memory/Load memory	16/24kByte (ME193A: 24/32, ME193B: 32/40)		
High-speed Counter	max. 4 (Frequency up to 30kHz)		
Alarm inputs	max. 4		
Pulse output	max. 2 (PWM up to 50kHz)		
Analog potentiometer	2		
Dimensions (WxHxD) in mm / inch	152.4x76x48 / 6x3x1.9		

CPU 115DP

Module specific	115-6BL22
Module	6tier
Number of inputs DC 24V	16(20)
Number of outputs DC 24V, 0.5A	16(12)
Current consumption at L+	160mA
Profibus-DP Slave integrated	yes
Alarm input	4
Work memory/Load memory	16/24KByte (ME193A: 24/32, ME193B: 32/40)
High-speed Counter	max. 4 (Frequency up to 30kHz)
Alarm inputs	max. 4
Pulse outputs	max. 2 (PWM up to 50kHz)
Analog potentiometer	2
Dimensions (WxHxD) in mm / inch	152.4x76x48 / 6x3x1.9

CPU 115SER

Module specific	115-6BL12	115-6BL32
Module	6tier	
Number of inputs DC 24V	16(20)	
Number of outputs DC 24V, 0.5A	16(12)	
Current consumption at L+	100mA	110mA
RS232 interface integrated	yes	-
RS485 interface integrated	-	yes
Alarm input	4	
Work memory/Load memory	16/24KByte (ME193A: 24/32, ME193B: 32/40)	
High-speed Counter	max. 4 (Frequency up to 30kHz)	
Alarm inputs	max. 4	
Pulse outputs	max. 2 (PWM up to 50kHz)	
Analog potentiometer	2	
Dimensions (WxHxD) in mm / inch	152.4x76x48 / 6x3x1.9	

In-/output components

Input section	DI 8xDC 24V
Number of inputs per group	8
Nominal input voltage	DC 24V (18 ... 28.8V)
Signal voltage "0" / "1"	0 ... 5V / 15 ... 28.8V
Input filter time delay	3ms
Input current	typ. 7mA
Power supply	internal
Isolation	500Veff (Field voltage-backplane bus)

Output section	DO 8xDC 24V
Number of outputs per group	8
Nominal load voltage	DC 24V (18...28.8V) via ext. power supply
Current consumption L+ (without load: all Q.x = on per output group)	max. 50mA
Output current per channel	max. 0.5A
Switch rate max. - for resistive load - for inductive load	1kHz (pulse output 50kHz) 0.5Hz
Limit (internal) of the inductive circuit interruption voltage	typ. L+ (-52V)

Relay output	DO 8xDC 24V
Number of outputs per group	8 (2 groups with 4 relays)
Nominal load voltage	AC 230V or max. DC 30V
Output current per channel	max. 5A
Sum current per group	max. 8A

System expansion	114-6BJ02 / 114-6BJ52 115-6BL02 / 115-6BL12 115-6BL22 / 115-6BL32	115-6BL72
Number of connectable modules	up to 4x EM 123 or 4x SM 2xx (System 200V)	up to 7x EM 123 or 7x SM 2xx (System 200V)
Output current at bus expansion	max. 0.9A	