

SIMATIC ET 200 distributed I/O

ET 200SP

Interface modules without CPU

IM 155-6

Overview



- Interface module for linking the ET 200SP to PROFINET or PROFIBUS
- Handles all data exchange with the controller
- BusAdapter (BA) for individual PROFINET connection
- Integrated 2-port switch for line configuration
- Depending on the selected interface module
 - Up to a maximum of 64 I/O modules per station
 - Replacement of I/O modules during operation
- Operation with gaps (non-equipped BaseUnits) possible
- Replacement of an I/O module possible during operation (hot swapping)
- Load group formation without power module

Technical specifications

	6ES7155-6AA00-0BN0 IM 155-6 PN ST with BA 2xRJ45 and server module	6ES7155-6AU00-0BN0 IM 155-6 PN ST with server module	6ES7155-6AU00-0CN0 IM 155-6 PN HF with server module	6ES7155-6BA00-0CN0 IM155-6DP HF with PROFIBUS connector and server module
General information				
Product function				
• I&M data	Yes	Yes	Yes; I&M0 to I&M4	Yes; I&M0 to I&M3
Engineering with				
• STEP 7 TIA Portal can be configured/integrated as of version	V11 SP2 with HSP0024 / -	V12 / V12		
• STEP 7 can be configured/integrated as of version	V5.5 SP3 / -	V5.5 SP3 / -	V5.5 SP3 / -	V5.5 SP3 / -
• PROFIBUS as of GSD version/GSD revision				GSD as of Revision 5
• PROFINET as of GSD version/GSD revision	V2.3 / -	V1.0 / V2.23	V2.3 / -	
Supply voltage				
Type of supply voltage		24 V DC	DC	DC
Rated value (DC)	24 V	24 V	24 V	24 V
Reverse polarity protection	Yes	Yes	Yes	Yes
Mains buffering				
• Mains/voltage failure stored energy time	5 ms	5 ms	5 ms	5 ms
Hardware configuration				
Rack				
• maximum	32	32	64	
Interfaces				
Number of PROFINET interfaces	1	1	1	
Number of PROFIBUS interfaces				1

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BaseUnits

Overview



With the BaseUnits, the ET 200SP offers a rugged and service-friendly design with permanent wiring:

- No tools needed for one-handed wiring using push-in terminals
- Outstanding access due to arrangement of measuring tap, spring NC contacts and cable entry in columns, while at the same time reducing the space required by 64%
- Fault-proof color coding of the spring NC contacts for better orientation in the terminal panel
- Replacement of I/O modules during operation without affecting the wiring
- Operation with module gaps (missing I/O module)
- Automatic coding of the I/O modules prevents destruction of the electronics if a module is accidentally inserted in the wrong slot during replacement
- High immunity to electromagnetic interference due to
 - self-assembling shielded backplane bus,
 - multi-layer conductor plate with shield levels for interference-free signal transmission from the terminal to the I/O module,
 - system-integrated, space-saving shield connection for quick installation.

Technical specifications

	6ES7193-6BP00-0BA0 BU15-P16+A0+2B	6ES7193-6BP00-0BA1 BU15-P16+A0+2B/T	6ES7193-6BP00-0BD0 BU20-P12+A0+0B	6ES7193-6BP00-0DA0 BU15-P16+A0+2D	6ES7193-6BP00-0DA1 BU15-P16+A0+2D/T
Supply voltage Rated value (AC)			400 V; 230 V AC (L1, N)		
Dimensions					
Width	15 mm	15 mm	20 mm	15 mm	15 mm
Height	117 mm	117 mm	117 mm	117 mm	117 mm
Weights Weight, approx.	40 g	40 g	47 g	40 g	40 g
	6ES7193-6BP40-0BA1 BU15-P16+A0+12B/T	6ES7193-6BP40-0DA1 BU15-P16+A0+12D/T			
Dimensions					
Width	15 mm	15 mm			
Height	141 mm	141 mm			
Weights Weight, approx.	50 g	50 g			
	6ES7193-6BP20-0BA0 BU15-P16+A10+2B	6ES7193-6BP20-0BB0 BU20-P12+A4+0B	6ES7193-6BP20-0DA0 BU15-P16+A10+2D	6ES7193-6BP20-0DC0 BU20-P6+A2+4D	
Supply voltage Rated value (AC)		230 V; 110 V		230 V; 110 V	
Dimensions					
Width	15 mm	20 mm	15 mm	20 mm	
Height	141 mm	117 mm	141 mm	117 mm	
Weights Weight, approx.	50 g	48 g	50 g	47 g	