SIEMENS

Data sheet

6ES7193-6BP00-2DU0



SIMATIC ET 200SP, BaseUnit BU20-P16+A0+2D, BU-TYPE U0, Packaging Unit: 10 Pieces, Push-in terminals, w/o AUX-terminals, new potential group, WxH: 20mm x 117mm

Product type designation BU type U0 HW functional status FS10 and higher Supply voltage FS10 and higher Rated value (DC) See manual • For P1 and P2 bus 120 V • For AUX bus 120 V • For AUX bus 120 V Rated value (AC) See manual • For AUX bus 240 V • Tor AUX bus 10 A For Process terminals 240 V • Tor Aux bus, max. 10 A For P1 and P2 bus, max. 10 A For Detail group	General information	
Supply voltage See manual For P1 and P2 bus For AUX bus For P1 and P2 bus See manual For P1 and P2 bus See manual For P1 and P2 bus See manual See	Product type designation	BU type U0
Rated value (DC) See manual • For P1 and P2 bus 120 V • For AUX bus 120 V; Equal potential group to P1/P2 bus or PE • of process terminals 120 V Rated value (AC) See manual • For P1 and P2 bus 240 V • For AUX bus 240 V; Equal potential group to P1/P2 bus or PE • for process terminals 240 V • for process terminals 240 V • of process terminals 240 V • or process terminals 10 A For P1 and P2 bus, max. 10 A For process terminals, max. 10 A Par Que to 0°C, max. 10 A Par Que to 0°C, max. 10 A For process terminals, max. 10 A Port Que to 0°C,	HW functional status	FS10 and higher
• For P1 and P2 bus 120 V • For AUX bus 120 V: Equal potential group to P1/P2 bus or PE • for process terminals 120 V Rated value (AC) See manual • For P1 and P2 bus 240 V • For AUX bus 240 V: Equal potential group to P1/P2 bus or PE • for process terminals 240 V • external protection for power supply lines Yes Mains filter • • integrated No Current carrying capacity • up to 60 °C, max. 10 A For P1 and P2 bus, max. 10 A For AUX bus, max. 10 A For For Aux bus, max. 10 A For process terminals, max. 10 A For process terminals, max. 10 A For process terminals, max. 10 A Por process terminals group Yes • Number of stors • • Number of stors 1 Potential group continued from the left No Slots • • Number of stors 1 Potential separation • between poces terminals and supply voltage	Supply voltage	
• For AUX bus 120 V; Equal potential group to P1/P2 bus or PE • for process terminals 120 V Rated value (AC) See manual • For P1 and P2 bus 240 V • For AUX bus 240 V; Equal potential group to P1/P2 bus or PE • for process terminals 240 V external protection for power supply lines Yes • integrated No Current carrying capacity 10 A • For AUX bus, max. 10 A For process terminals, max. 10 A Potential group Yes Pormatic encoding Yes Pormation of potential group Yes • New potential group Yes • Potential group continued from the left No Slots 1 • Number of slots 1	Rated value (DC)	See manual
• for process terminals 120 V Rated value (AC) See manual • For P1 and P2 bus 240 V • For AUX bus 240 V; Equal potential group to P1/P2 bus or PE • for process terminals 240 V • external protection for power supply lines Yes Mains filter • integrated • integrated No Current carrying capacity up to 60 °C, max. • DA A For P1 and P2 bus, max. For P1 and P2 bus, max. 10 A For process terminals, max. 10 A For process terminals, max. 10 A Port of contact, derating depends on the module Hardware configuration Automatic encoding Yes • New potential groups Yes • Number of slots 1 • Number of slots 1 • Number of slots 1 • Detential group continued from the left No Slots 1 • Detential separation Yes between process terminals and supply voltage Yes, Not applicable for process terminals 15 and 16 between process terminals and supply voltage Yes, Not applicable for process terminals 15 and 16 between process terminals and supply voltage Yes, Not applicable for process terminals 15 and 16	 For P1 and P2 bus 	120 V
Rated value (AC) See manual • For P1 and P2 bus 240 V • For AUX bus 240 V; Equal potential group to P1/P2 bus or PE • for process terminals 240 V external protection for power supply lines Yes Mains filter • integrated • integrated No Current carrying capacity up to 80 °C, max. 10 A For P1 and P2 bus, max. For P1 and P2 bus, max. 10 A For process terminals, max. 10 A For process terminals, max. 10 A For process terminals, max. 10 A Por process terminals, max. 10 A Automatic encoding Yes • New potential groups Yes • Number of slots 1 Potential group continued from the left No Slots 1 etween packplane bus and supply voltage Yes between process terminals and supply voltage Yes. Not applicable for process terminals 15 and 16 between process terminals and supply voltage No Isolation 3 100 V DC Amblent conditions Amblent temperature during operation	For AUX bus	120 V; Equal potential group to P1/P2 bus or PE
 For P1 and P2 bus For AUX bus For AUX bus 240 V; Equal potential group to P1/P2 bus or PE for process terminals 240 V external protection for power supply lines Yes Mains filter integrated No Current carrying capacity up to 60 °C, max. 10 A For P1 and P2 bus, max. 10 A For P1 and P2 bus, max. 10 A For P1 and P2 bus, max. 10 A For process terminals, max. 10 A For process terminals on the module Hardware configuration Automatic encoding Yes Potential group continued from the left No Slots Number of slots 1 Potential group continued from the left No Slots between backplane bus and supply voltage Yes, Not applicable for process terminals 15 and 16 between power bus and supply voltage Yes, Not applicable for process terminals 15 and 16 between power b	for process terminals	120 V
 For AUX bus For AUX bus for process terminals 240 V; Equal potential group to P1/P2 bus or PE for process terminals 240 V external protection for power supply lines Yes Mains filter integrated No Current carrying capacity up to 60 °C, max. for AUX bus, max. 10 A For P1 and P2 bus, max. 10 A For P1 and P2 bus, max. 10 A For process terminals, max. 10 A For process terminals, max. 10 A; Point of contact, derating depends on the module Hardware configuration Automatic encoding Yes Potential groups No Slots Number of slots Potential spapation between process terminals and supply voltage Ves; Not applicable for process terminals 15 and 16 between process terminals and supply voltage No Isolation tested with 3 100 V DC Ambient temperature during operation on of "Cest" of	Rated value (AC)	See manual
• for process terminals 240 V external protection for power supply lines Yes Mains filter • integrated • integrated No Current carrying capacity up to 60 °C, max. 10 A For P1 and P2 bus, max. 10 A For AUX bus, max. 10 A For rocess terminals, max. 10 A For process terminals on potential groups Yes • New potential group Yes • Potential group continued from the left No Slots 1 • Number of slots 1 Potential separation 1 between backplane bus and supply voltage Yes; Not applicable for process terminals 15 and 16 between power bus and supply voltage No Isolation tested with 3 100 V DC Ambient conditions -30 °C	 For P1 and P2 bus 	240 V
external protection for power supply lines Yes Mains filter • integrated • integrated No Current carrying capacity up to 60 °C, max. 10 A For P1 and P2 bus, max. For AUX bus, max. 10 A For process terminals, max. 10 A; Point of contact, derating depends on the module Hardware configuration Ves Automatic encoding Yes • New potential groups Yes • Number of slots 1 Potential separation No between packplane bus and supply voltage Yes; Not applicable for process terminals 15 and 16 between process terminals and supply voltage between power bus and supply voltage Yes; Not applicable for process terminals 15 and 16 between power bus and supply voltage Isolation 3 100 V DC Ambient temperature during operation -30 °C	 For AUX bus 	240 V; Equal potential group to P1/P2 bus or PE
Mains filter • integrated No Current carrying capacity up to 60 °C, max. 10 A For P1 and P2 bus, max. 10 A For AUX bus, max. 10 A For process terminals, max. 10 A; Point of contact, derating depends on the module Hardware configuration Automatic encoding Automatic encoding Yes Formation of potential groups Yes • New potential group ontinued from the left No Slots 1 Potential separation No between backplane bus and supply voltage Yes; Not applicable for process terminals 15 and 16 between process terminals and supply voltage Isolation Isolation tested with 3 100 V DC Ambient conditions -30 °C	 for process terminals 	240 V
• integrated No Current carrying capacity up to 60 °C, max. up to 60 °C, max. 10 A For P1 and P2 bus, max. 10 A For AUX bus, max. 10 A For process terminals, max. 10 A, For process terminals, max. 10 A, Por process terminals, max. 10 A, Hardware configuration 4utomatic encoding Yes Formation of potential groups • New potential group Yes • Potential group continued from the left No Slots 1 Potential separation 1 between backplane bus and supply voltage Yes, Not applicable for process terminals 15 and 16 between power bus and supply voltage Yes, Not applicable for process terminals 15 and 16 between power bus and supply voltage No Isolation tested with 3 100 V DC Ambient temperature during operation -30 °C	external protection for power supply lines	Yes
Current carrying capacity ID A For P1 and P2 bus, max. 10 A For P1 and P2 bus, max. 10 A For AUX bus, max. 10 A For process terminals, max. 10 A, Point of contact, derating depends on the module Hardware configuration Automatic encoding Yes Formation of potential groups Yes Potential group continued from the left No Slots 1 Potential separation Yes between packplane bus and supply voltage Yes; Not applicable for process terminals 15 and 16 between power bus and supply voltage Yes; Not applicable for process terminals 15 and 16 between power bus and supply voltage No Isolation 3 100 V DC Ambient temperature during operation -30 °C	Mains filter	
up to 60 °C, max. 10 A For P1 and P2 bus, max. 10 A For AUX bus, max. 10 A For process terminals, max. 10 A Hardware configuration 10 A; Point of contact, derating depends on the module Hardware configuration 10 A; Point of contact, derating depends on the module Hardware configuration Yes Automatic encoding Yes Formation of potential groups Yes • New potential group Yes • Potential group continued from the left No Slots 1 • Number of slots 1 Potential separation Yes; Not applicable for process terminals 15 and 16 between process terminals and supply voltage Yes; Not applicable for process terminals 15 and 16 between power bus and supply voltage Yes; Not applicable for process terminals 15 and 16 Isolation 3 100 V DC Ambient conditions -30 °C	integrated	No
For P1 and P2 bus, max. 10 A For AUX bus, max. 10 A For process terminals, max. 10 A; Point of contact, derating depends on the module Hardware configuration Automatic encoding Automatic encoding Yes Formation of potential groups Yes • New potential group Yes • Potential group continued from the left No Slots 1 Potential separation 1 between backplane bus and supply voltage Yes; Not applicable for process terminals 15 and 16 between process terminals and supply voltage Yes; Not applicable for process terminals 15 and 16 between process terminals and supply voltage Yes; Not applicable for process terminals 15 and 16 between process terminals and supply voltage No Isolation 3 100 V DC Ambient conditions -30 °C	Current carrying capacity	
For AUX bus, max. 10 A For process terminals, max. 10 A; Point of contact, derating depends on the module Hardware configuration Automatic encoding Automatic encoding Yes Formation of potential groups Yes • New potential group continued from the left No Slots 1 Potential separation 1 between backplane bus and supply voltage Yes; Not applicable for process terminals 15 and 16 between process terminals and supply voltage Yes; Not applicable for process terminals 15 and 16 Isolation 3 100 V DC Ambient conditions -30 °C	up to 60 °C, max.	10 A
For process terminals, max. 10 A; Point of contact, derating depends on the module Hardware configuration Automatic encoding Yes Automatic encoding Yes Yes Formation of potential groups Yes No • New potential group continued from the left No No Slots 1 Potential separation • Number of slots 1 1 Potential separation Yes; Not applicable for process terminals 15 and 16 between power bus and supply voltage Yes; Not applicable for process terminals 15 and 16 between power bus and supply voltage No Isolation 3 100 V DC Ambient temperature during operation -30 °C	For P1 and P2 bus, max.	10 A
Hardware configuration Automatic encoding Yes Formation of potential groups Yes • New potential group continued from the left No Slots 1 Potential separation 1 between backplane bus and supply voltage Yes; Not applicable for process terminals 15 and 16 between process terminals and supply voltage Yes; Not applicable for process terminals 15 and 16 Isolation 3 100 V DC Ambient conditions -30 °C	For AUX bus, max.	10 A
Automatic encoding Yes Formation of potential groups • • New potential group Yes • Potential group continued from the left No Slots 1 • Number of slots 1 Potential separation 1 between backplane bus and supply voltage Yes; Not applicable for process terminals 15 and 16 between process terminals and supply voltage Yes; Not applicable for process terminals 15 and 16 Isolation 3 100 V DC Ambient conditions -30 °C	For process terminals, max.	10 A; Point of contact, derating depends on the module
Formation of potential groups Yes • New potential group continued from the left No Slots 1 • Number of slots 1 Potential separation 1 between backplane bus and supply voltage Yes between process terminals and supply voltage Yes; Not applicable for process terminals 15 and 16 between power bus and supply voltage No Isolation 3 100 V DC Ambient conditions -30 °C	Hardware configuration	
• New potential group Yes • Potential group continued from the left No Slots 1 • Number of slots 1 Potential separation 1 between backplane bus and supply voltage Yes between process terminals and supply voltage Yes; Not applicable for process terminals 15 and 16 between power bus and supply voltage No Isolation 3 100 V DC Ambient conditions -30 °C	Automatic encoding	Yes
 Potential group continued from the left No Slots Number of slots 1 Potential separation between backplane bus and supply voltage Yes between process terminals and supply voltage Yes; Not applicable for process terminals 15 and 16 between power bus and supply voltage No Isolation tested with 3 100 V DC Ambient conditions Ambient temperature during operation horizontal installation, min. -30 °C 	Formation of potential groups	
Slots 1 • Number of slots 1 Potential separation 1 between backplane bus and supply voltage Yes between process terminals and supply voltage Yes; Not applicable for process terminals 15 and 16 between power bus and supply voltage No Isolation Isolation tested with Ambient conditions 3 100 V DC Ambient temperature during operation -30 °C		Yes
• Number of slots 1 Potential separation	 Potential group continued from the left 	No
Potential separation between backplane bus and supply voltage Yes between process terminals and supply voltage Yes; Not applicable for process terminals 15 and 16 between power bus and supply voltage No Isolation Isolation tested with Ambient conditions 3 100 V DC Ambient temperature during operation -30 °C		
between backplane bus and supply voltage Yes between process terminals and supply voltage Yes; Not applicable for process terminals 15 and 16 between power bus and supply voltage No Isolation Isolation tested with Ambient conditions 3 100 V DC Ambient temperature during operation -30 °C	Number of slots	1
between process terminals and supply voltage Yes; Not applicable for process terminals 15 and 16 between power bus and supply voltage No Isolation Isolation tested with Isolation tested with 3 100 V DC Ambient conditions Ambient temperature during operation • horizontal installation, min. -30 °C	Potential separation	
between power bus and supply voltage No Isolation Isolation tested with Isolation tested with 3 100 V DC Ambient conditions Ambient temperature during operation • horizontal installation, min. -30 °C		Yes
Isolation 3 100 V DC Ambient conditions Ambient temperature during operation • horizontal installation, min. -30 °C	between process terminals and supply voltage	Yes; Not applicable for process terminals 15 and 16
Isolation tested with 3 100 V DC Ambient conditions -30 °C	between power bus and supply voltage	No
Ambient conditions Ambient temperature during operation • horizontal installation, min. -30 °C	Isolation	
Ambient temperature during operation • horizontal installation, min. -30 °C	Isolation tested with	3 100 V DC
• horizontal installation, min30 °C	Ambient conditions	
	Ambient temperature during operation	
horizontal installation, max. 60 °C	 horizontal installation, min. 	-30 °C
	 horizontal installation, max. 	60 °C

 vertical installation, min. 	-30 °C
 vertical installation, max. 	50 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	2 000 m; On request: Installation altitudes greater than 2 000 m
Connection method	
Terminals	
Terminal type	Push-in terminal
Conductor cross-section, min.	0.14 mm ² ; 0.2 mm ² without wire end ferrule
 Conductor cross-section, max. 	2.5 mm ² ; 1.5 mm ² with wire end ferrule
 Number of process terminals to I/O module 	16
 Number of terminals to AUX bus 	0
 Number of add-on terminals 	0
 Number of terminals with connection to P1 and P2 bus 	2
Dimensions	
Width	20 mm
Height	117 mm
Depth	35 mm
Weights	
Weight, approx.	50 g
	4/4C/0004 (7

last modified:

1/16/2021 🖸