## SIEMENS

## Data sheet

## 6ES7193-6BP00-0DU0



SIMATIC ET 200SP, BaseUnit BU20-P16+A0+2D, BU-TYPE U0, Packaging Unit: 1 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 AVX bus     120 V       • For AVX bus     120 V       Bated value (AC)     See manual       • For AUX bus     120 V       Rated value (AC)     See manual       • For AUX bus     240 V       • 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 P1 and P2 bus, max.     10 A       For process terminals, max.     10 A       Potential group     Yes       Pormation of potential groups     •       • New potential group     Yes       • Potential	General information	
Supply voltage       See manual         Rated value (DC)       See manual         • For P1 and P2 bus       120 V         • For AUX bus       120 V         • For P1 and P2 bus       120 V         • For P1 and P2 bus       240 V         • For AUX bus       240 V         • external protection for power supply lines       Yes         Mains filter       •         • integrated       No         Current carrying capacity       up to 60 °C, max.         For P1 and P2 bus, max.       10 A         For P2 and P2 bus, max.       10 A         For process terminals, max.       10 A         Potential group continued from the left       No         Slotis       1         • Number of slots       1         Potential separation       Ves         between process terminals and su	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;       • or process terminals     240 V;       • or process terminals     240 V;       • external protection for power supply lines     Yes       Mains filter     •       • Integrated     No       Current carrying capacity     up to 60 °C, max.       • 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       Porper configuration     Yes       Automatic encoding     Yes       Pormation of potential groups     Yes       • New potential group     Yes       • Number of slots     1       Potential separation     Yes       between packplane bus and supply voltage     Yes, Not applicable for process terminals 15 and 16       between process terminals and supply voltage     Yes, Not applicable for pr	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       10 A         • For P1 and P2 bus, max.       10 A         For process terminals, max.       10 A         For process terminals, max.       10 A         For process terminals group       Yes         Potential group       Yes         • Nomber of slots       1         • Number of slots       1         • Number of slots       1         • Number of slots       1         • Detential group       Yes         • Noterea process terminals and supply voltage       Yes, Not applicable for process terminals 15 and 16 <td>Supply voltage</td> <td></td>	Supply voltage	
<ul> <li>For AUX bus</li> <li>120 V; Equal potential group to P1/P2 bus or PE</li> <li>for process terminals</li> <li>120 V</li> <li>Rated value (AC)</li> <li>For P1 and P2 bus</li> <li>240 V</li> <li>Eor AUX bus</li> <li>240 V; Equal potential group to P1/P2 bus or PE</li> <li>for process terminals</li> <li>240 V</li> <li>external protection for power supply lines</li> <li>Yes</li> <li>Mains filter</li> <li>integrated</li> <li>No</li> <li>Current carrying capacity</li> <li>up to 60 °C, max.</li> <li>10 A</li> <li>For P1 and P2 bus, max.</li> <li>10 A</li> <li>For P1 and P2 bus, max.</li> <li>10 A</li> <li>For process terminals, max.</li> <li>10 A</li> <li>Potential group</li> <li>Yes</li> <li>between process terminals and supply voltage</li> <li>Ves</li> <li>between process terminals and supply voltage</li> <li>No</li> <li>Isolation</li> <li>Isolation</li> <li>between process terminals and supply voltage</li> <li>No</li> <li>Isolation</li> <li>Ambient conditio</li></ul>	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.       up to 60 °C, max.     10 A       For P1 and P2 bus, max.     10 A       For process terminals, max.     10 A       For process terminals, max.     10 A       Portocost terminals, max.     10 A       Porpocess terminals, max.     10 A       Porpocess terminals, max.     10 A       Porpocess terminals, max.     10 A; Point of contact, derating depends on the module       Hardware configuration     Automatic encoding       Automatic encoding     Yes       • New potential groups     Yes       • Number of slots     1       Potential group continued from the left     No       Slots     1       • Number of slots     1       Potential separation     Yes       between process terminals and supply voltage     Yes; Not applicable for process terminals 15 and 16       between power bus and supply voltage     Yes;	<ul> <li>For P1 and P2 bus</li> </ul>	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.         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         Port configuration       40 views         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         between process terminals and supply voltage       No         Isolation       3 100 V DC         Ambient conditions       - 30 °C	• For AUX bus	120 V; Equal potential group to P1/P2 bus or PE
<ul> <li>For P1 and P2 bus</li> <li>For AUX bus</li> <li>For AUX bus</li> <li>for process terminals</li> <li>240 V</li> <li>external protection for power supply lines</li> <li>Yes</li> <li>Mains filter <ul> <li>integrated</li> <li>No</li> </ul> </li> <li>Current carrying capacity</li> <li>up to 60 °C, max.</li> <li>for P1 and P2 bus, max.</li> <li>for P1 and P2 bus, max.</li> <li>for P1 and P2 bus, max.</li> <li>for AUX bus, max.</li> <li>A</li> <li>For AUX bus, max.</li> <li>A</li> <li>For process terminals, max.</li> <li>A</li> <li>A</li> <li>For process terminals, max.</li> <li>A</li> <li>A Point of contact, derating depends on the module</li> </ul> <li>Hardware configuration</li> <li>Automatic encoding</li> <li>Yes</li> <li>Formation of potential groups</li> <li>New potential group</li> <li>Yes</li> <li>Potential group continued from the left</li> <li>No</li> Slots <ul> <li>Number of slots</li> <li>theter backplane bus and supply voltage</li> <li>between backplane bus and supply voltage</li> <li>between process terminals and supply voltage</li> <li>Yes, Not applicable for process terminals 15 and 16</li> <li>between power bus and supply voltage</li> <li>No</li> </ul> Isolation tested with <ul> <li>3 100 V DC</li> </ul> Antbient temperature during operation <ul> <li>horizontal installation, min.</li> <li>-30 °C</li> </ul>	<ul> <li>for process terminals</li> </ul>	120 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 roccess terminals, max.       10 A         For process terminals, max.       10 A         For process terminals, max.       10 A         Automatic encoding       Yes         • New potential groups       Yes         • Potential group continued from the left       No         Slots       1         • Number of slots       1         Potential group continued from the left       No         Slots       1         • Number of slots       1         Potential separation       Ves; 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 tested with       3 100 V DC         Ambient temperature durin	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.         For AUX bus, max.       10 A         For rocess terminals, max.       10 A         For rocess terminals, max.       10 A         For process terminals, max.       10 A         For box of potential group       Yes         • New potential group       Yes         • Potential group continued from the left       No         Slots       1         • Number of slots       1         Potential separation       1         between process terminals and supply voltage       Yes; Not applicable for process terminals 15 and 1	<ul> <li>For P1 and P2 bus</li> </ul>	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       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 process terminals 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     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 AUX bus	240 V; Equal potential group to P1/P2 bus or PE
Mains filter       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 spores 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         • Number of slots       1         Potential separation       Yes         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 power bus and supply voltage       No         Isolation       3 100 V DC         Ambient temperature during operation       -30 °C	<ul> <li>for process terminals</li> </ul>	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, Point of contact, derating depends on the module         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         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 temperature during operation       -30 °C	external protection for power supply lines	Yes
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       4         Automatic encoding       Yes         Formation of potential groups       Yes         • New potential group on 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         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 packsplane 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         Isolation       Isolation tested with       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         • 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       No         Isolation       3 100 V DC         Ambient temperature during operation       -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       Yes         • 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       Formation of potential group         • New potential group continued from the left       No         Slots       1         • Number of slots       1         Potential separation       Yes         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       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	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       • Number of 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       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
<ul> <li>Potential group continued from the left</li> <li>No</li> <li>Slots</li> <li>Number of slots</li> <li>1</li> <li>Potential separation</li> <li>between backplane bus and supply voltage</li> <li>Yes</li> <li>between process terminals and supply voltage</li> <li>Yes; Not applicable for process terminals 15 and 16</li> <li>between power bus and supply voltage</li> <li>No</li> </ul> Isolation tested with <ul> <li>3 100 V DC</li> <li>Ambient conditions</li> <li>Ambient temperature during operation</li> <li>horizontal installation, min.</li> <li>-30 °C</li> </ul>		
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       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	<ul> <li>Potential group continued from the left</li> </ul>	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	Slots	
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		
Isolation         Isolation tested with       3 100 V DC         Ambient conditions         Ambient temperature during operation         • horizontal installation, min.       -30 °C		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	<ul> <li>horizontal installation, min.</li> </ul>	-30 °C
	<ul> <li>horizontal installation, max.</li> </ul>	60 °C

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