6ES7193-6BP20-0DC0

Data sheet



SIMATIC ET 200SP, BaseUnit BU20-P6+A2+4D, BU type C0, Push-in terminals, with 2 AUX terminals, New load group, WxH: 20 mmx117 mm

Product type designation HW functional status FS10 and higher Supply voltage Rated value (DC) For P1 and P2 bus For AUX bus For P2 and P2 bus For P3 and P2 bus For P4 and P2 bus For P5 and P2 bus For P6 and P2 bus For P6 and P2 bus For P7 and P2 bus For P8 and P8 bus For P8 and P8 bus For P9 bus For P8	General information	
Rated value (DC) For P1 and P2 bus For AUX bus For AUX bus For P1 and P2 bus For AUX bus For P1 and P2 bus For AUX bus For B1 and P2 bus For AUX bus For B1 and P2 bus For AUX bus For B1 and B1 and B1 bus B1	Product type designation	BU type C0
Rated value (DC) For P1 and P2 bus For AUX bus For AUX bus for process terminals 24 V Rated value (AC) For P1 and P2 bus For AUX bus For P1 and P2 bus For AUX bus For AUX bus For AUX bus For P1 and P2 bus For AUX bus For process terminals External protection for power supply lines Mains filter integrated No Current carrying capacity up to 60 °C, max. For P1 and P2 bus, max. For P2 bus, max. For P3 duy, max. For P4 duy, max. For P4 duy, max. For P4 duy, max. For P5 duy, max. For AUX bus, max. For P6 duy, max. For AUX bus, max. For P1 duy, max. For D1 duy, max. For P0 duy, max. For P1 duy, max. For P2 duy, max. For P2 duy, max. For P2 duy, max. For P3 duy, max. For P4 duy, max. For P5 duy, max. For P6 duy, max. For P6 duy, max. For P7 duy, max. For P7 duy, max. For P1	HW functional status	FS10 and higher
For P1 and P2 bus For AUX bus For AUX bus For process terminals Rated value (AC) For P1 and P2 bus For AUX bus For P2 and P2 bus For AUX bus For P3 and P2 bus For AUX bus For process terminals For process terminals External protection for power supply lines P30 V External protection for power supply lines P4 since packed 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 P3 and P2 bus, max. 10 A For P4 and P2 bus, max. For P5 and P6 bus, max. 10 A For P6 and P6 bus, max. For P7 and P6 bus, max. For P7 and P6 bus, max. 10 A For P7 and P6 bus, max. 10 A For P8 and P6 bus, max. For P1 and P6 bus, max. For P7 bus, max. For P1 bu	Supply voltage	
• For AUX bus • for process terminals 24 V; Equal potential group to P1/P2 bus or PE • for process terminals 24 V Rated value (AC) • For P1 and P2 bus • for process terminals 230 V; Equal potential group to P1/P2 bus or PE • for process terminals • for process terminals 230 V external protection for power supply lines **Per 10 A miniature circuit breaker with type B or C tripping characteristic for the respective rated supply voltage **Mains filter • integrated **Current carrying capacity up to 60 °C, max. For P1 and P2 bus, max. 10 A For P4 DAV bus, max. 10 A For P5 external process terminals, max. **Hardware configuration Automatic encoding Yes **Slots • Number of slots • No Slots • Number of slots • No Slots • Number of slots • No Slots • Number of slots • No Slots • Number of slots • No Slots • Number of slots • No Slots • No Slots • No Slots • No Slots • No Slots • No Slots • No Slotation Isolation tested with 3 100 V DC Amblent conditions Ambient temperature during operation • horizontal installation, min. • vertical installation, min. • vertical installation, min. • vertical installation, min.	Rated value (DC)	See manual
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Rated value (AC) For P1 and P2 bus For AUX bus For AUX bus For process terminals External protection for power supply lines external protection for power supply lines Page 230 V External protection for power supply lines external protection for power supply lines Page 230 V External protection for pro	 For AUX bus 	24 V; Equal potential group to P1/P2 bus or PE
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For AUX bus for process terminals filter integrated No Current carrying capacity up to 60 °C, max. For PJ and PZ bus, max. For PJ and PZ bus, max. For process terminals, max. For process terminals, max. For process terminals, max. For process terminals, max. For Mux bus, max. For Mux bus, max. For PJ and PZ bus, max. For PJ and PZ bus, max. For PU bus, max. For PU bus, max. For PU bus, max. For process terminals, max. For PU bus, max. For process terminals and supply voltage Ves Slots Number of slots Fortential separation between backplane bus and supply voltage between process terminals and supply voltage Yes between power bus and supply voltage No Isolation Isolation Isolation Solution tested with Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, min. • horizontal installation, min. • horizontal installation, min. • vertical installation, min. • vertical installation, min. • vertical installation, min. • vertical installation, min.	Rated value (AC)	See manual
	For P1 and P2 bus	230 V
external protection for power supply lines Yes; 10 A miniature circuit breaker with type B or C tripping characteristic for the respective rated supply voltage 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. 5 A; 10 A for process terminals 5 and 6 Hardware configuration Automatic encoding • Number of slots • Number of slots 1 Potential separation between backplane bus and supply voltage between process terminals and supply voltage between power bus and supply voltage between power bus and supply voltage Isolation Isolation tested with Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min. • vertical installation, min. -30 °C • vertical installation, min. -30 °C	 For AUX bus 	230 V; Equal potential group to P1/P2 bus or PE
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For process terminals, max. For process terminals, max. 5 A; 10 A for process terminals 5 and 6 Hardware configuration Automatic encoding Yes Slots • Number of slots 1 Potential separation between backplane bus and supply voltage between process terminals and supply voltage between power bus and supply voltage No Isolation Isolation Isolation tested with Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min. • vertical installation, min. • vertical installation, min. -30 °C -30 °C	For P1 and P2 bus, max.	10 A
Automatic encoding Automatic encoding Yes Slots Number of slots 1 Potential separation between backplane bus and supply voltage between process terminals and supply voltage yes between power bus and supply voltage No Isolation Isolation tested with 3 100 V DC Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min. -30 °C • vertical installation, min. -30 °C	For AUX bus, max.	10 A
Automatic encoding Slots Number of slots Potential separation between backplane bus and supply voltage between process terminals and supply voltage between power bus and supply voltage No Isolation Isolation tested with 3 100 V DC Ambient conditions Ambient temperature during operation horizontal installation, min. -30 °C horizontal installation, max. vertical installation, min. -30 °C -30 °C	For process terminals, max.	5 A; 10 A for process terminals 5 and 6
Slots Number of slots Number of slots Potential separation between backplane bus and supply voltage between process terminals and supply voltage between power bus and supply voltage No Isolation Isolation tested with 3 100 V DC Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min. -30 °C • vertical installation, min. -30 °C	Hardware configuration	
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between process terminals and supply voltage between power bus and supply voltage Isolation Isolation tested with Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min. -30 °C -30 °C	Potential separation	
between power bus and supply voltage Isolation Isolation tested with 3 100 V DC Ambient conditions Ambient temperature during operation • horizontal installation, min30 °C • horizontal installation, max. 60 °C • vertical installation, min30 °C	between backplane bus and supply voltage	Yes
Isolation Isolation tested with 3 100 V DC Ambient conditions Ambient temperature during operation • horizontal installation, min30 °C • horizontal installation, max. 60 °C • vertical installation, min30 °C	between process terminals and supply voltage	Yes
Isolation tested with Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min. -30 °C 60 °C -30 °C	between power bus and supply voltage	No
Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min. -30 °C 60 °C -30 °C	Isolation	
Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min. -30 °C 60 °C -30 °C	Isolation tested with	3 100 V DC
 horizontal installation, min. horizontal installation, max. vertical installation, min. -30 °C 60 °C -30 °C 	Ambient conditions	
 horizontal installation, max. vertical installation, min. 60 °C -30 °C 	Ambient temperature during operation	
• vertical installation, min30 °C	horizontal installation, min.	-30 °C
	 horizontal installation, max. 	60 °C
• vertical installation, max. 50 °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
Accessories	2 000 m, Offrequest. Installation attitudes greater than 2 000 m
Color coding labels	
 for process terminals 	CC51, CC52
 for AUX terminals 	CC84 to CC86
 for add-on terminals 	does not exist
Connection method	
Terminals	
Terminal type	Push-in terminal
 Conductor cross-section, min. 	0.14 mm ² ; AWG 26
 Conductor cross-section, max. 	2.5 mm²; AWG 14
 Number of process terminals to I/O module 	12; Pro slot
 Number of terminals to AUX bus 	0
 Number of add-on terminals 	0
 Number of terminals with connection to P1 and P2 bus 	0; Pro slot
Dimensions	
Width	20 mm
Height	117 mm
Depth	35 mm
Weights	
Weight, approx.	47 g

2/11/2021

last modified: