SIEMENS

Data sheet

6ES7193-6BP40-0DA1



SIMATIC ET 200SP, BaseUnit BU15-P16+A0+12D/T, BU type A1, Push-in terminals, with 2x 5 add-on terminals, New load group, WxH: 15 mm x 141 mm, with temperature acquisition

Product type designation BU type A1 FW functional status FS10 and higher Supply votage FS10 and higher Rated value (DC) 24 V external protection for power supply lines Ves; 24 V DC/10 A miniature circuit breaker with type B or C tripping characteristic Current carrying capacity For P1 and P2 bus, max. 10 A For P1 and P2 bus, max. 2 A Hardware configuration 2 A Additional terminals, max. 2 A Hardware configuration Yes Formation of potential groups Yes Formation of potential groups Yes Potential group continued from the left No Slots 1: Type A1 Potential group continued from the left No Slots 1: Type A1 Potential group continued from the left No Slotation 1: Solation tested with Torio tested with 707 V DC (type test) Ambient conditions 30 °C Antibut tested with 707 V DC (type test) Antibut tested with 70° C • horizontal installation, min. -30 °C	General information	
Supply voltage 24 V Reted value (CC) 24 V external protection for power supply lines Ves; 24 V DC/10 A miniature circuit breaker with type B or C tripping characteristic Current carrying capacity For P1 and P2 bus, max. 10 A For process terminals, max. 2 A Hardware configuration Additional terminals Yes Temperature sensor Yes Formation of potential groups Yes New potential group group Yes Potential group continued from the left No Slote No	Product type designation	BU type A1
Rated value (DC) 24 V external protection for power supply lines Yes; 24 V DC/10 A miniature circuit breaker with type B or C tripping characteristic Current carrying capacity	HW functional status	FS10 and higher
external protection for power supply lines Yes: 24 V DC/10 A miniature circuit breaker with type B or C tripping characteristic distribution of the protein and	Supply voltage	
Current carrying capacity Characteristic Current carrying capacity For P1 and P2 bus, max. 10 A For process terminals, max. 2 A Hardware configuration Yes Additional terminals Yes Temperature sensor Yes Potential groups Yes • New potential groups Yes • New potential groups Yes • Norber of slots 1; Type A1 Potential separation Detential separation between the potential groups Yes Isolation Stots Isolation To7 V DC (type test) Ambient conditions	Rated value (DC)	24 V
For P1 and P2 bus, max. 10 A For process terminals, max. 2 A Hardware configuration Additional terminals Additional terminals Yes Temperature sensor Yes • New potential group Yes • Otential group continued from the left No Slots • Otential groups • Number of slots 1; Type A1 Potential separation Detential groups total separation Yes Isolation tested with 707 V DC (type test) Ambient conditions Anbient conditions Anbient conditions - 30 °C • ortical installation, min. - 30 °C • evertical installation, min. - 30 °C • evertical installation, max. 50 °C Altice during operation relating to sea level - installation altitudes > 2 000 m, see manual Accessories Color coding labels Color coding labels CC010 to CC09 • for add-on terminals does not exist • for add-on terminals CC74 connection method Yes; Optional	external protection for power supply lines	
For process terminals, max. 2 A Hardware configuration Additional terminals Yes Yes Formation of potential groups Yes • New potential group Yes • New potential group continued from the left No Slots • • Number of slots 1; Type A1 Potential separation • between the potential groups Yes Isolation • Isolation • Isolation • Ambient conditions - Anbient conditions -30 °C • horizontal installation, min. -30 °C • horizontal installation, min. -30 °C • Vertical installation, min. -30 °C • Installation, min. -30 °C • Installation, min. -30 °C • Vertical installation, max. 60 °C • Vertical installation, max. 50 °C Altitude during operation relating to sea level • • Installation altitude above sea level, max. 5 000 m; Restrictons for installation altitudes > 2 000 m, see manual Accessories Color coding labels <td< td=""><td>Current carrying capacity</td><td></td></td<>	Current carrying capacity	
Hardware configuration Additional terminals Yes Temperature sensor Yes Formation of potential groups Yes • New potential group continued from the left No Slots • Number of slots 1; Type A1 Potential separation between the potential groups Yes Isolation Isolation Ambient conditions Annot tested with 707 V DC (type test) Ambient temperature during operation	For P1 and P2 bus, max.	10 A
Additional terminals Yes Temperature sensor Yes Formation of potential groups Yes • New potential group continued from the left No Slots • Vumber of slots • Number of slots 1; Type A1 Potential separation • between the potential groups Yes Isolation • Isolation tested with 707 V DC (type test) Ambient temperature during operation • • horizontal installation, min. -30 °C • horizontal installation, max. 60 °C • vertical installation, max. 50 °C • vertical installation, max. 50 °C Altitude during operation relating to sea level • • Installation attitude above sea level, max. 5 000 m; Restrictions for installation attitudes > 2 000 m, see manual Accessories Color coding labels • for process terminals CC04 • for AUX terminals does not exist • for add-on terminals CC74 connection method Terminal • system-integrated shield connection Yes; Optional	For process terminals, max.	2 A
Temperature sensor Yes Formation of potential groups Yes • New potential group continued from the left No Slots 1; Type A1 • Number of slots 1; Type A1 Potential separation Isolation Isolation Yes Isolation 707 V DC (type test) Ambient conditions Ambient conditions Ambient installation, min. -30 °C • horizontal installation, max. 60 °C • vertical installation, max. 50 °C Altitude during operation relating to sea level 5000 m; Restrictions for installation altitudes > 2 000 m, see manual Accessories Color coding labels CC00 to CC09 • for process terminals CC074 • for add-on terminals CC74 • for add-on terminals CC74 • for add-on terminals CC74 • for method Yes; Optional	Hardware configuration	
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• Potential group continued from the left No Slots . • Number of slots 1; Type A1 Potential separation . between the potential groups Yes Isolation . Isolation tested with 707 V DC (type test) Ambient conditions . Ambient conditions . Ambient timperature during operation	Formation of potential groups	
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• Number of slots 1; Type A1 Potential separation between the potential groups Isolation Yes Isolation Isolation tested with Ambient conditions 707 V DC (type test) Ambient conditions 60 °C • horizontal installation, min. -30 °C • horizontal installation, max. 60 °C • vertical installation, max. 50 °C Altitude during operation relating to sea level -30 °C • Installation attitude above sea level, max. 500 °C Accessories Color coding labels Color coding labels CC00 to CC09 • for process terminals does not exist • for add-on terminals CC74 connection method Terminal • Terminal type Push-in terminal • system-integrated shield connection Yes; Optional	Potential group continued from the left	No
Potential separation between the potential groups Yes Isolation Isolation tested with Ambient conditions 707 V DC (type test) Ambient conditions Ambient conditions Ambient temperature during operation -30 °C horizontal installation, min. -30 °C vertical installation, max. 60 °C vertical installation, max. 50 °C Altitude during operation relating to sea level Installation altitude above sea level, max. 5000 m; Restrictions for installation altitudes > 2 000 m, see manual Accessories Color coding labels for process terminals ofor AUX terminals does not exist for add-on terminals CC74 connection method Terminals System-integrated shield connection Yes; Optional 	Slots	
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Ambient temperature during operation 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. 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual Accessories Color coding labels for AUX terminals for add-on terminals CC74 connection method Terminals Terminal type system-integrated shield connection Yes; Optional 	Isolation tested with	707 V DC (type test)
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• horizontal installation, max.60 °C• vertical installation, min30 °C• vertical installation, max.50 °CAltitude during operation relating to sea level500 m; Restrictions for installation altitudes > 2 000 m, see manual• Installation altitude above sea level, max.5 000 m; Restrictions for installation altitudes > 2 000 m, see manualAccessoriesColor coding labels• for process terminalsCC00 to CC09• for AUX terminalsdoes not exist• for add-on terminalsCC74Connection methodPush-in terminal• Terminal typePush-in terminal• system-integrated shield connectionYes; Optional	Ambient temperature during operation	
• vertical installation, min. -30 °C • vertical installation, max. 50 °C Altitude during operation relating to sea level -30 °C • Installation altitude above sea level 50 °C • Installation altitude above sea level, max. 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual Accessories	 horizontal installation, min. 	-30 °C
• vertical installation, max. 50 °C Attitude during operation relating to sea level 500 m; Restrictions for installation altitudes > 2000 m, see manual • Installation altitude above sea level, max. 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual Accessories Accessories Color coding labels CC00 to CC09 • for process terminals CC00 to CC09 • for add-on terminals CC74 connection method Terminal type • Terminal type Push-in terminal • system-integrated shield connection Yes; Optional	 horizontal installation, max. 	60 °C
Altitude during operation relating to sea level • Installation altitude above sea level, max. 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual Accessories Accessories Color coding labels CC00 to CC09 • for process terminals CC00 to CC09 • for AUX terminals does not exist • for add-on terminals CC74 Terminals • Terminal type Push-in terminal • system-integrated shield connection Yes; Optional	 vertical installation, min. 	-30 °C
• Installation altitude above sea level, max. 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual Accessories • Color coding labels • • for process terminals CC00 to CC09 • for AUX terminals does not exist • for add-on terminals CC74 Connection method Terminal type • Terminal type Push-in terminal • system-integrated shield connection Yes; Optional	 vertical installation, max. 	50 °C
Accessories Color coding labels • for process terminals CC00 to CC09 • for AUX terminals does not exist • for add-on terminals CC74 connection method Terminals • Terminal type Push-in terminal • system-integrated shield connection Yes; Optional	Altitude during operation relating to sea level	
Color coding labels • for process terminals CC00 to CC09 • for AUX terminals does not exist • for add-on terminals CC74 connection method Terminals • Terminal type Push-in terminal • system-integrated shield connection Yes; Optional	Installation altitude above sea level, max.	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
• for process terminals CC00 to CC09 • for AUX terminals does not exist • for add-on terminals CC74 connection method Terminals • Terminal type Push-in terminal • system-integrated shield connection Yes; Optional	Accessories	
• for AUX terminals does not exist • for add-on terminals CC74 connection method CT4 Terminals Push-in terminal • Terminal type Push-in terminal • system-integrated shield connection Yes; Optional		
• for add-on terminals CC74 connection method CC74 Terminals Push-in terminal • Terminal type Push-in terminal • system-integrated shield connection Yes; Optional	Color coding labels	
connection method Terminals • Terminal type Push-in terminal • system-integrated shield connection Yes; Optional		CC00 to CC09
Terminals • Terminal type Push-in terminal • system-integrated shield connection Yes; Optional	for process terminals	
• Terminal type Push-in terminal • system-integrated shield connection Yes; Optional	for process terminalsfor AUX terminals	does not exist
system-integrated shield connection Yes; Optional	 for process terminals for AUX terminals for add-on terminals	does not exist
	 for process terminals for AUX terminals for add-on terminals connection method 	does not exist
Conductor cross-section min 0 14 mm ² AWG 26	for process terminals for AUX terminals for add-on terminals connection method Terminals	does not exist CC74
	for process terminals for AUX terminals for add-on terminals connection method Terminals • Terminal type	does not exist CC74 Push-in terminal

 Conductor cross-section, max. 	2.5 mm²; AWG 14
 Number of process terminals to I/O module 	16
 Number of terminals to AUX bus 	0
 Number of add-on terminals 	2x5
 Number of terminals with connection to P1 and P2 bus 	2
Dimensions	
Width	15 mm
Height	141 mm
Depth	35 mm
Weights	
Weight, approx.	50 g

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