



SIPLUS ET 200SP BU20-P16+A0+2B based on 6ES7193-6BP00-0BU0 with conformal coating, -40...+70 °C, BU type U0, push-in terminals, without AUX terminals, bridged to the left, WxH: 20 mm x 117 mm

Figure similar

General information	
Product type designation	BU type U0
based on	<a href="#">6ES7193-6BP00-0BU0</a>
Supply voltage	
Rated value (DC)	See manual
<ul style="list-style-type: none"> <li>For P1 and P2 bus</li> <li>For AUX bus</li> <li>for process terminals</li> </ul>	120 V 120 V; Equal potential group to P1/P2 bus or PE 120 V
Rated value (AC)	See manual
<ul style="list-style-type: none"> <li>For P1 and P2 bus</li> <li>For AUX bus</li> <li>for process terminals</li> </ul>	277 V 277 V; Equal potential group to P1/P2 bus or PE 277 V; 480 V (L1 - L2 - L3); 277 V (L, N)
Mains filter	
<ul style="list-style-type: none"> <li>integrated</li> </ul>	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	Yes
Formation of potential groups	
<ul style="list-style-type: none"> <li>New potential group</li> <li>Potential group continued from the left</li> </ul>	No Yes
Slots	
<ul style="list-style-type: none"> <li>Number of slots</li> </ul>	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	
Isolation tested with	3 100 V DC
Standards, approvals, certificates	
Ecological footprint	
<ul style="list-style-type: none"> <li>environmental product declaration</li> </ul>	Yes
Global warming potential	
— global warming potential, (total) [CO2 eq]	0.873 kg
— global warming potential, (during production) [CO2]	0.866 kg

eq]	
— global warming potential, (during operation) [CO2 eq]	0 kg
— global warming potential, (after end of life cycle) [CO2 eq]	-0.0011 kg

#### Ambient conditions

<b>Ambient temperature during operation</b>	
<ul style="list-style-type: none"> <li>• horizontal installation, min.</li> <li>• horizontal installation, max.</li> <li>• vertical installation, min.</li> <li>• vertical installation, max.</li> </ul>	<p>-40 °C; = Tmin (incl. condensation/frost)</p> <p>70 °C; = Tmax</p> <p>-40 °C; = Tmin</p> <p>50 °C; = Tmax</p>
<b>Altitude during operation relating to sea level</b>	
<ul style="list-style-type: none"> <li>• Installation altitude above sea level, max.</li> <li>• Ambient air temperature-barometric pressure-altitude</li> </ul>	<p>3 000 m</p> <p>Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 1 K/100 m) at 795 hPa ... 701 hPa (+2 000 m ... +3 000 m)</p>
<b>Relative humidity</b>	
<ul style="list-style-type: none"> <li>• With condensation, tested in accordance with IEC 60068-2-38, max.</li> </ul>	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
<b>Resistance</b>	
<b>Coolants and lubricants</b>	
— Resistant to commercially available coolants and lubricants	Yes; Incl. diesel and oil droplets in the air
<b>Use in stationary industrial systems</b>	
— to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
— to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
— to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *
— Against mechanical environmental conditions acc. to EN 60721-3-3	Yes; Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0)
<b>Use on ships/at sea</b>	
— to biologically active substances according to EN 60721-3-6	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
— to chemically active substances according to EN 60721-3-6	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
— to mechanically active substances according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust; *
— Against mechanical environmental conditions acc. to EN 60721-3-6	Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0)
<b>Usage in industrial process technology</b>	
— Against chemically active substances acc. to EN 60654-4	Yes; Class 3 (excluding trichlorethylene)
— Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
<b>Remark</b>	
— Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04	* The supplied plug covers must remain in place over the unused interfaces during operation!
<b>Conformal coating</b>	
<ul style="list-style-type: none"> <li>• Coatings for printed circuit board assemblies acc. to EN 61086</li> <li>• Protection against fouling acc. to EN 60664-3</li> <li>• Military testing according to MIL-I-46058C, Amendment 7</li> <li>• Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A</li> </ul>	<p>Yes; Class 2 for high reliability</p> <p>Yes; Type 1 protection</p> <p>Yes; Discoloration of coating possible during service life</p> <p>Yes; Conformal coating, Class A</p>
<b>Connection method</b>	
<b>Terminals</b>	
<ul style="list-style-type: none"> <li>• Terminal type</li> <li>• Conductor cross-section, min.</li> <li>• Conductor cross-section, max.</li> <li>• Number of process terminals to I/O module</li> <li>• Number of terminals to AUX bus</li> </ul>	<p>Push-in terminal</p> <p>0.14 mm<sup>2</sup>; 0.2 mm<sup>2</sup> without wire end ferrule</p> <p>2.5 mm<sup>2</sup>; 1.5 mm<sup>2</sup> with wire end ferrule</p> <p>16</p> <p>0</p>

- 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
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#### Classifications

	Version	Classification
eClass	14	27-24-26-03
eClass	12	27-24-26-03
eClass	9.1	27-24-26-03
eClass	9	27-24-26-03
eClass	8	27-24-26-03
eClass	7.1	27-24-26-03
eClass	6	27-24-26-03
ETIM	10	EC001598
ETIM	9	EC001598
ETIM	8	EC001598
ETIM	7	EC001598
IDEA	4	3560
UNSPSC	15	32-15-17-04

#### Approvals / Certificates

##### General Product Approval

[Manufacturer Declaration](#)



[China RoHS](#)



[China RoHS](#)

##### EMV

##### Maritime application

##### Environment



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