



Figure similar

SIPLUS ET 200SP BU15-P16+A0+2D/T TX rail based on 6ES7193-6BP00-0DA1 with conformal coating, -40...+70 °C, OT4 with ST1/2 (+85 °C for 10 minutes), BU type A1, push-in terminals, without AUX terminals, new load group, WxH: 15 mm x 117 mm, with temperature acquisition

General information	
Product type designation	BU type A1
based on	<a href="#">6ES7193-6BP00-0DA1</a>
Supply voltage	
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	
For P1 and P2 bus, max.	10 A
For process terminals, max.	2 A
Hardware configuration	
Temperature sensor	Yes
Formation of potential groups	
<ul style="list-style-type: none"> <li>New potential group</li> </ul>	Yes
<ul style="list-style-type: none"> <li>Potential group continued from the left</li> </ul>	No
Slots	
<ul style="list-style-type: none"> <li>Number of slots</li> </ul>	1; Type A1
Potential separation	
between the potential groups	Yes
Isolation	
Isolation tested with	750 V DC (type test) and according to EN 50155 (routine test)
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 eq]	0.866 kg
— global warming potential, (during operation) [CO2 eq]	0 kg
— global warming potential, (after end of life cycle) [CO2 eq]	-0.0011 kg
Railway application	
<ul style="list-style-type: none"> <li>EN 50121-3-2</li> </ul>	Yes; EMC for rail vehicles
<ul style="list-style-type: none"> <li>EN 50121-4</li> </ul>	Yes; EMC for signal and telecommunications systems
<ul style="list-style-type: none"> <li>EN 50121-5</li> </ul>	Yes; EMC for fixed installations and railway power supply equipment
<ul style="list-style-type: none"> <li>EN 50124-1</li> </ul>	Yes; Railway applications - overvoltage category OV2; pollution degree PD2; rated surge voltage UNi = 0.5 kV; UNm = 24 V DC
<ul style="list-style-type: none"> <li>EN 50125-1</li> </ul>	Yes; Rail vehicles - see ambient conditions

- EN 50125-2
- EN 50125-3
- EN 50155
- EN 61373
- Fire protection acc. to EN 45545-2

Yes; Stationary electrical equipment - see ambient conditions  
 Yes; Signal and telecommunications systems - see ambient conditions;  
 vibrations and shocks: Application point outside of tracks (1 m to 3 m away from track)  
 Yes; Rail vehicles - temperature class OT4, ST1/ST2, horizontal mounting position  
 Yes; Rail vehicles - vibrations and shocks: Category 1 Class A/B  
 Yes; For proof of conformity, see Service & Support

#### 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)          70 °C; = Tmax; +85 °C for 10 min (OT4, ST1/ST2 acc. to EN 50155)          -40 °C; = Tmin          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>2 000 m          Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 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>	<p>100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation</p>
<b>Resistance</b>	
<b>Coolants and lubricants</b>	
<ul style="list-style-type: none"> <li>— Resistant to commercially available coolants and lubricants</li> </ul>	<p>Yes; Incl. diesel and oil droplets in the air</p>
<b>Use in stationary industrial systems</b>	
<ul style="list-style-type: none"> <li>— to biologically active substances according to EN 60721-3-3</li> <li>— to chemically active substances according to EN 60721-3-3</li> <li>— to mechanically active substances according to EN 60721-3-3</li> <li>— Against mechanical environmental conditions acc. to EN 60721-3-3</li> </ul>	<p>Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request          Yes; Class 3C4 (RH &lt; 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *          Yes; Class 3S4 incl. sand, dust, *          Yes; Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0)</p>
<b>Use on land craft, rail vehicles and special-purpose vehicles</b>	
<ul style="list-style-type: none"> <li>— to biologically active substances according to EN 60721-3-5</li> <li>— to chemically active substances according to EN 60721-3-5</li> <li>— to mechanically active substances according to EN 60721-3-5</li> <li>— Against mechanical environmental conditions acc. to EN 60721-3-5</li> <li>— against mechanical environmental conditions in agriculture acc. to ISO 15003</li> </ul>	<p>Yes; Class 5B2 mold, fungus and dry rot spores (with the exception of fauna); Class 5B3 on request          Yes; Class 5C3 (RH &lt; 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *          Yes; Class 5S3 incl. sand, dust; *          Yes; Class 5M2 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0)          Yes; level 1 (Location LE) using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0)</p>
<b>Usage in industrial process technology</b>	
<ul style="list-style-type: none"> <li>— Against chemically active substances acc. to EN 60654-4</li> <li>— Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04</li> </ul>	<p>Yes; Class 3 (excluding trichlorethylene)          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)</p>
<b>Remark</b>	
<ul style="list-style-type: none"> <li>— Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04</li> </ul>	<p>* The supplied plug covers must remain in place over the unused interfaces during operation!</p>
<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>• Electronic equipment on rolling stock acc. to EN 50155</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          Yes; Type 1 protection          Yes; Class PC2 protective coating acc. to EN 50155:2017          Yes; Discoloration of coating possible during service life          Yes; Conformal coating, Class A</p>

#### Accessories

Color coding labels

- for process terminals
- for AUX terminals
- for add-on terminals

CC00 to CC09  
does not exist  
does not exist

### Connection method

Terminals	
• Terminal type	Push-in terminal
• system-integrated shield connection	Yes; Optional
• Conductor cross-section, min.	0.14 mm <sup>2</sup> ; AWG 26
• Conductor cross-section, max.	2.5 mm <sup>2</sup> ; AWG 14
• 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	15 mm
Height	117 mm
Depth	35 mm

### Weights

Weight, approx.	40 g
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### Other

Note:	for use in railway applications, also observe the product information "SIPLUS extreme RAIL" A5E37661960A, Online Support article 109736776
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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](#)



#### General Product Approval



[China RoHS](#)



[Confirmation](#)



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