



Figure similar

SIPLUS ET 200SP BU15-P16+A10+2B TX rail based on 6ES7193-6BP20-0BA0 with conformal coating, -40...+70 °C, OT4 with ST1/2 (+85 °C for 10 minutes), BU type A0, push-in terminals, with 10 AUX terminals, bridged to the left, WxH: 15 mm x141 mm,

General information	
Product type designation	BU type A0
based on	6ES7193-6BP20-0BA0
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 AUX bus, max.	10 A
For process terminals, max.	2 A
Hardware configuration	
Formation of potential groups	
<ul style="list-style-type: none"> New potential group 	No
<ul style="list-style-type: none"> Potential group continued from the left 	Yes
Slots	
<ul style="list-style-type: none"> Number of slots 	1; Type A0
Isolation	
Isolation tested with	750 V DC (type test) and according to EN 50155 (routine test)
Standards, approvals, certificates	
Railway application	
<ul style="list-style-type: none"> EN 50121-3-2 	Yes; EMC for rail vehicles
<ul style="list-style-type: none"> EN 50121-4 	Yes; EMC for signal and telecommunications systems
<ul style="list-style-type: none"> EN 50121-5 	Yes; EMC for fixed installations and railway power supply equipment
<ul style="list-style-type: none"> EN 50124-1 	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"> EN 50125-1 	Yes; Rail vehicles - see ambient conditions
<ul style="list-style-type: none"> EN 50125-2 	Yes; Stationary electrical equipment - see ambient conditions
<ul style="list-style-type: none"> EN 50125-3 	Yes; Signal and telecommunications systems - see ambient conditions; vibrations and shocks: Application point outside of tracks (1 m to 3 m away from track)
<ul style="list-style-type: none"> EN 50155 	Yes; Rail vehicles - temperature class OT4, ST1/ST2, horizontal mounting position
<ul style="list-style-type: none"> EN 61373 	Yes; Rail vehicles - vibrations and shocks: Category 1 Class A/B
<ul style="list-style-type: none"> Fire protection acc. to EN 45545-2 	Yes; For proof of conformity, see Service & Support
Ambient conditions	
Ambient temperature during operation	
<ul style="list-style-type: none"> horizontal installation, min. 	-40 °C; = Tmin (incl. condensation/frost)
<ul style="list-style-type: none"> horizontal installation, max. 	70 °C; = Tmax; +85 °C for 10 min (OT4, ST1/ST2 acc. to EN 50155)

<ul style="list-style-type: none"> vertical installation, min. 	-40 °C; = Tmin
<ul style="list-style-type: none"> vertical installation, max. 	50 °C; = Tmax
Altitude during operation relating to sea level	
<ul style="list-style-type: none"> Installation altitude above sea level, max. 	2 000 m
<ul style="list-style-type: none"> Ambient air temperature-barometric pressure-altitude 	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m)
Relative humidity	
<ul style="list-style-type: none"> With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation
Resistance	
Coolants and lubricants	
<ul style="list-style-type: none"> Resistant to commercially available coolants and lubricants 	Yes; Incl. diesel and oil droplets in the air
Use in stationary industrial systems	
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> 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); *
<ul style="list-style-type: none"> to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *
<ul style="list-style-type: none"> Against mechanical environmental conditions acc. to EN 60721-3-3 	Yes; Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0)
Use on land craft, rail vehicles and special-purpose vehicles	
<ul style="list-style-type: none"> to biologically active substances according to EN 60721-3-5 	Yes; Class 5B2 mold, fungus and dry rot spores (with the exception of fauna); Class 5B3 on request
<ul style="list-style-type: none"> to chemically active substances according to EN 60721-3-5 	Yes; Class 5C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
<ul style="list-style-type: none"> to mechanically active substances according to EN 60721-3-5 	Yes; Class 5S3 incl. sand, dust; *
<ul style="list-style-type: none"> Against mechanical environmental conditions acc. to EN 60721-3-5 	Yes; Class 5M2 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0)
<ul style="list-style-type: none"> against mechanical environmental conditions in agriculture acc. to ISO 15003 	Yes; level 1 (Location LE) using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0)
Usage in industrial process technology	
<ul style="list-style-type: none"> Against chemically active substances acc. to EN 60654-4 	Yes; Class 3 (excluding trichlorethylene)
<ul style="list-style-type: none"> 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)
Remark	
<ul style="list-style-type: none"> 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!
Conformal coating	
<ul style="list-style-type: none"> Coatings for printed circuit board assemblies acc. to EN 61086 	Yes; Class 2 for high reliability
<ul style="list-style-type: none"> Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection
<ul style="list-style-type: none"> Electronic equipment on rolling stock acc. to EN 50155 	Yes; Class PC2 protective coating acc. to EN 50155:2017
<ul style="list-style-type: none"> Military testing according to MIL-I-46058C, Amendment 7 	Yes; Discoloration of coating possible during service life
<ul style="list-style-type: none"> Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A 	Yes; Conformal coating, Class A
Accessories	
Color coding labels	
<ul style="list-style-type: none"> for process terminals 	CC00 to CC09
<ul style="list-style-type: none"> for AUX terminals 	CC71 to CC73
<ul style="list-style-type: none"> for add-on terminals 	does not exist
Connection method	
Terminals	
<ul style="list-style-type: none"> Terminal type 	Push-in terminal
<ul style="list-style-type: none"> system-integrated shield connection 	Yes; Optional
<ul style="list-style-type: none"> Conductor cross-section, min. 	0.14 mm ² ; AWG 26
<ul style="list-style-type: none"> Conductor cross-section, max. 	2.5 mm ² ; AWG 14
<ul style="list-style-type: none"> Number of process terminals to I/O module 	16
<ul style="list-style-type: none"> Number of terminals to AUX bus 	10

- Number of add-on terminals
- Number of terminals with connection to P1 and P2 bus

0
2

Dimensions

Width	15 mm
Height	141 mm
Depth	35 mm

Weights

Weight, approx.	50 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

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](#)

General Product Approval

EMV

Railway



[Confirmation](#)

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