

Supply Module

Series 9193



- > Supply of 24 V DC power supply into the pac-Bus
- > Supply current up to 4 A (for approx. 30 - 50 modules)
- > Single or redundant supply, decoupled via diodes, with LED indication
- > Exchangeable fuses for both supply circuits
- > Power supply failure and line fault messaging via relay contacts
- > Different operating modes can be selected via DIP-switches (error signal and redundant supply)
- > Any installation on the pac-Bus (beginning, end, middle, both sides)

A3



09814E00

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For the single or redundant supply of 24 V / 4 A power supply into the pac-Bus and common error messaging of line faults and power supply failure.

	ATEX / IECEx							NEC 505						NEC 506						NEC 500						
	0	1	2	20	21	22		0	1	2	20	21	22	0	1	2	20	21	22	Division	1	2	1	2	1	2
Zone							Zone							Division	1	2	1	2	1	2	1	2	1	2		
Installation in			x			x	Installation in			x			x	Installation in		x		x								x

WebCode 9193A

Supply Module

Series 9193



Selection Table

Version	Supply	Error messaging	Order number
Supply module Series 9193	24 V / 4 A, primary + redundant	Line fault and power supply failure	9193/20-11-11s

Note
The order numbers listed in the table are for devices equipped with screw-type terminals. For devices equipped with spring-type terminals, replace the ending "s" for screw-type terminals with "k" for spring-type terminals.

Explosion Protection

Global (IECEX)

Gas	IECEX BVS 10.0042X Ex nA nC IIC T4 Gc
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Europe (ATEX)

Gas	BVS 03 E 213 X II 3 G Ex nA nC IIC T4 Gc
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Certifications and certificates

Certificates	IECEX, ATEX, Brazil (INMETRO), Canada (cFM), Kazakhstan (GOST K), Korea (KCs), Russia (GOST R), Serbia (SRPS), Ukraine (TR), USA (FM)
Ship approval	DNV

Further parameters

Installation	in Zone 2, Div. 2 and in the safe area
Further information	see respective certificate and operating instructions

Technical Data

Electrical data

Input	
Power supply	24 V DC
Input range	18 ... 31.2 V
Residual ripple	< 3.6 V _{ss}
Max. current	4 A
Power losses (at 4 A)	2.5 W
Redundant supply	yes, decoupled with diodes
Indication	2 LED green "PWR1", "PWR2"
Safety fuse	5 x 20 mm; 2 x T 4.0 A; exchangeable for prim. and red. supply
Polarity reversal protection	yes
Output	
Supply into the pac-Bus	24 V / max. 4 A
Error message	
Power fail PF	Contact (35 V / 100 mA)
Line fault LF	Contact (35 V / 100 mA), closed in good conditions
Setting switch "SP"	Power failure message suppressed for redundant supply (for single supply)
Setting switch "LFS"	Line fault message suppressed
Electromagnetic compatibility	Tested under the following standards and regulations: EN 61326-1 Use in industrial environment; NAMUR NE 21

Ambient conditions

Ambient temperature	-20 ... +60 / +70 °C (Observe the "Cabinet installation guide")
Storage temperature	-40 ... +80 °C
Relative humidity (no condensation)	≤ 95 %

Technical Data

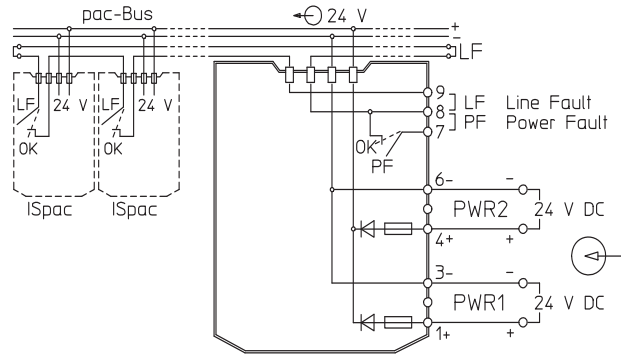
Electrical connection

Connection diagram

**primary + redundant
9193/20-11-11.**

Safe area

Division 2
Zone 2



09818E02

Mechanical data

Connection

Screw-type terminals

Spring-type terminals

Single-wire connection

- rigid
- flexible
- flexible with core end sleeves (without / with plastic sleeve)

- 0.2 ... 2.5 mm²
- 0.2 ... 2.5 mm²
- 0.25 ... 2.5 mm²

- 0.2 ... 2.5 mm²
- 0.2 ... 2.5 mm²
- 0.25 ... 2.5 mm²

Two-wire connection

- rigid
- flexible
- flexible with core end sleeves

- 0.2 ... 1 mm²
- 0.2 ... 1.5 mm²
- 0.25 ... 1 mm²

-
-
- 0.5 ... 1 mm²

Weight

approx. 110 g

Mounting type

on DIN rail (NS35/15, NS35/7.5)

Mounting orientation

horizontal or vertical

Enclosure

IP30

Terminals

IP20

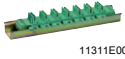
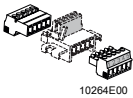
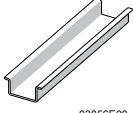


Enclosure material

PA 6.6

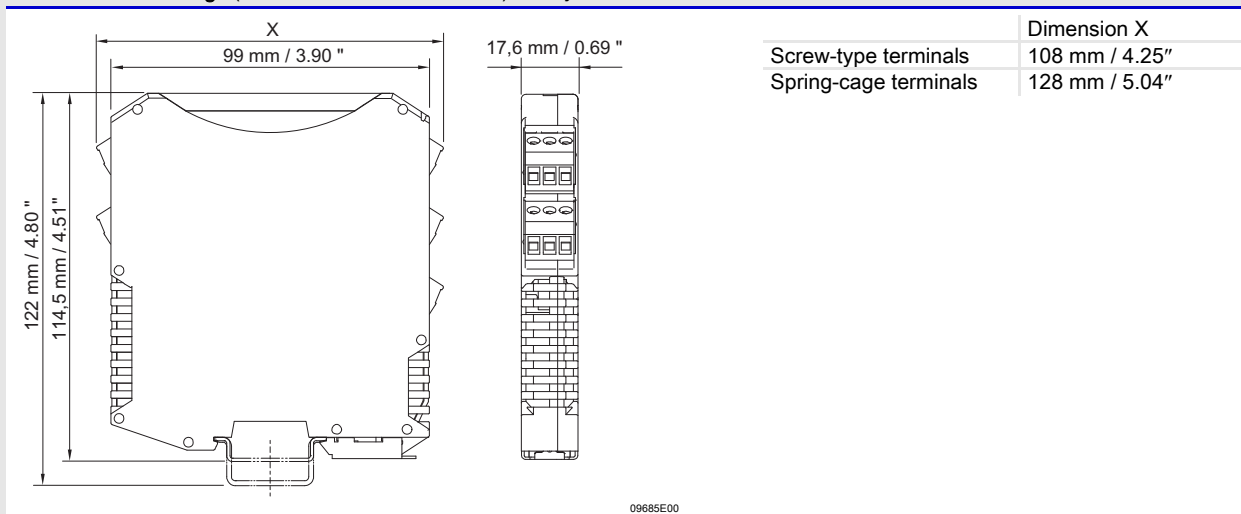
Fire resistance (UL-94)

V0

Accessories and Spare Parts

Designation	Figure	Description	Order number
pac-Bus	 11311E00	Wiring of power supply and collective error message for device group ISpac	9194/31-17
Terminal set for pac-Bus	 10264E00	5-pole, (set beginning + end) with bridge for fault message chain	9194/50-01
DIN rail	 03856E00	NS 35 / 15 (available by the metre)	103714
	 07104E00	NS 35 / 7.5 (meter length)	103707
End fixture	 10271E00	e. g. Phoenix, E/ME, TBUS NS 35 GY, CLIPFIX 35 or similar	

Dimensional Drawings (All Dimensions in mm / inch) - Subject to Alterations



We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.