



09815E00

Supply Module Type 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 single / redundant supply)
- Any installation on the pac-Bus (beginning, end, middle, both sides)
- Installation possible in Zone 2 and Div. 2



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.

Selection Table			
Version	Supply	Error messaging	Ordering Code
Supply Module Type 9193	24 V / 4 A; primary + redundant	Line fault and power supply failure	9193/20-11-11.
	24 V / 4 A; primary	without	9193/10-11-10.
Add. to Ordering Code			
	Screw terminal		9193/...-...-...s
	Spring clamp terminal		9193/...-...-...k
	Insulation displacement connectors		9193/...-...-...q

Technical Data		
Version	9193/1	9193/2
Certificates	BVS 03 E 213 X	BVS 03 E 213 X
Other certificates	USA (FM), Canada (CSA), Russia (VNIIEF), Shipping (DNV), Brazil (UL do Brasil)	USA (FM), Canada (CSA), Russia (VNIIEF), Shipping (DNV), Brazil (UL do Brasil)
Explosion protection	⊕ II 3 G EEx nAC II T4	⊕ II 3 G EEx nAC II T4
Installation	In Zone 2, Div. 2 and in the safe area	In Zone 2, Div. 2 and in the safe area
Power supply	None	None
Input		
Power supply	24 V DC	24 V DC
Input range	18 V ... 31.2 V	18 V ... 31.2 V
Residual ripple	< 3.6 V _{SS}	< 3.6 V _{SS}
Max. current	4 A	4 A
Power losses (at 4 A)	2.5 W	2.5 W
Redundant supply	--	yes, decoupled with diodes
Indication	LED green "PWR1"	2 LED green "PWR1", "PWR2"
Safety fuse	5 x 20 mm; 2 x T 4,0 A; exchangeable	5 x 20 mm; 2 x T 4,0 A; exchangeable for prim. and red. supply
Polarity reversal protection	yes	yes
Output		
Supply into the pac-Bus	24 V / max. 4 A	24 V / max. 4 A
Error messaging		
Power fail PF	--	Contact (35 V / 100 mA)
Line fail	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 (IEC/EN 61000-4-1...6 and 11; EN 55022 Class B); NAMUR NE 21 (IEC/EN 61000-4-1...6, 8 and 11; EN 55022 Class B)	
Ambient temperature		
Ambient temperature	- 20 °C ... + 60 °C / + 70 °C (watch instructions)	
Storage temperature range	+ 80 °C ... - 40 °C	
Relative humidity (no condensation)	≤ 95 %	



Technical Data

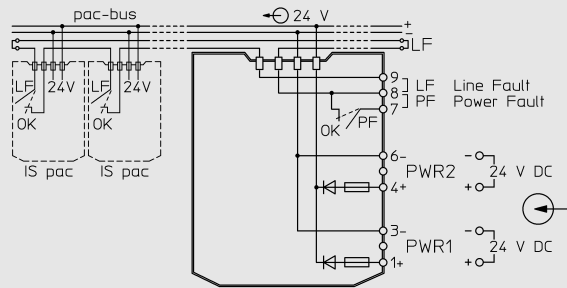
Mechanical data

	Screw terminals	Cage clamp terminals	Insulation cutting terminals
Connection one wire	3-pole	3-pole	3-pole
- rigid	0.2 ... 2.5 mm ²	0.2 ... 2.5 mm ²	--
- flexible	0.2 ... 2.5 mm ²	0.2 ... 2.5 mm ²	0.5 ... 1 mm ²
- flexible, end covering sleeves (without / with plastic sleeving)	0.25 ... 2.5 mm ²	0.25 ... 2.5 mm ²	--
Connection two wires			
- rigid	0.2 ... 1 mm ²	--	--
- flexible	0.2 ... 1.5 mm ²	--	--
- flexible, end covering sleeves	0.25 ... 1 mm ²	0.5 ... 1 mm ²	--
Weight	approx. 110 g		
Mounting type	on DIN rail, EN 50022 (NS35/15; NS35/7.5)		
Mounting position	horizontal or vertical		
Casing protection class	IP 30		
Terminal protection class	IP 20		
Casing material	PA 6.6		
Fire protecting class (UL-94)	V0		

Connection diagram

For types
9193/20-11-11.

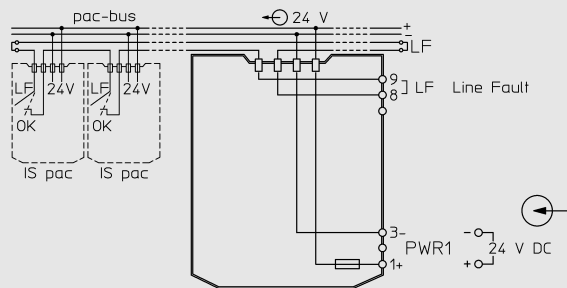
Safe area / Zone 2



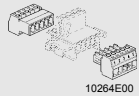


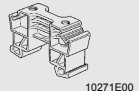
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For types
9193/10-11-10.

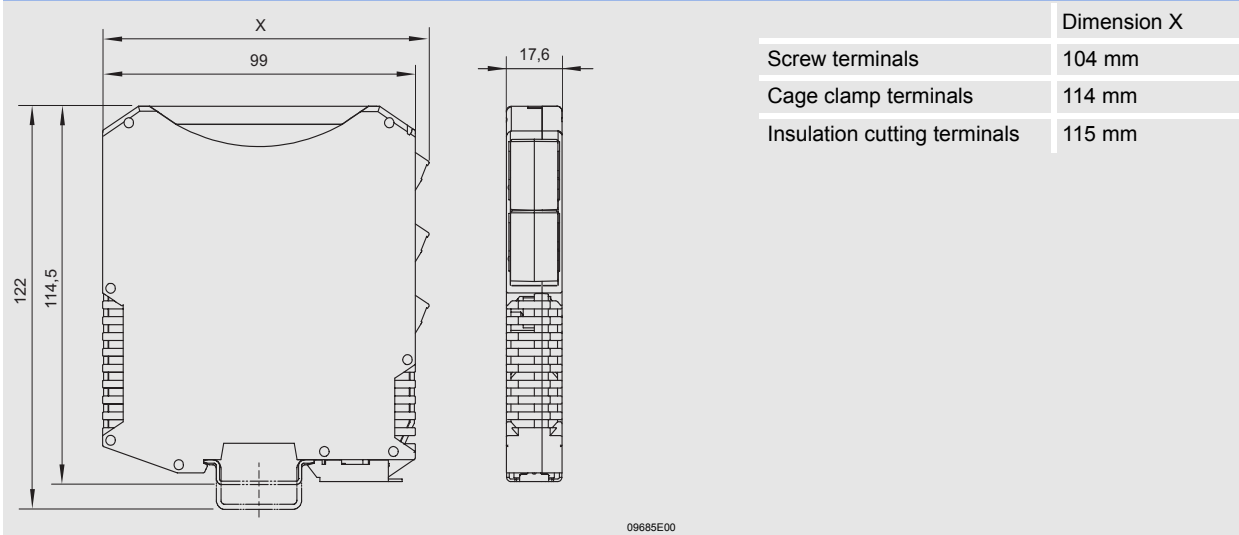
Safe area / Zone 2



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Accessories and Spare Parts			
Designation	Illustration	Description	Ordering Code
pac-Bus		Wiring for power supply and common error messaging for groups of IS pac modules	9194/31-17
Terminal set for pac-Bus		5-pole, (set begin + end) with bridge for error message chain	9194/50-01
DIN rail		NS 35 / 15 (meter length)	0616129
		NS 35 / 7.5 (meter length)	0616039
End fixture		e. g. Phoenix, E/ME, TBUS NS 35 GY, CLIPFIX 35 or similar	

Dimension drawing (all dimensions in mm) - subject to alterations



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

