

4.4.4 Power supply SD 812F

4.4.4	Power supply SD 812F	" offile.
Name	Short Description	Article No.
SD 812F	Power Supply 24 VDC	3BDH000014R1
	To use together with PM 802F or PM 803F. Control Builder F V7.1SP2a or higher is mandatory.	

The AC 800F modules are supplied with 5 VDC / 5.5 A and 3.3 VDC / 6.5 A by SD 812F. The power supply has open-circuit, overload and sustained short-circuit protection. The electronically controlled output voltage provides high stability and low residual ripple.

In case of power loss ≥ 5 ms, the power supply module generates a power-fail signal. This signal is used by the CPU module to shut down operations and enter to a safe state. This is required for a controlled restart of the system and the user application when power is restored. The output voltage remains within its tolerance limits for at least another 15 ms. Altogether an input voltage drop of 20 ms will be managed..

Features:

- Redundant input voltage 24 VDC, provides operation in accordance with NAMUR
- Power supply outputs provide: 5 VDC / 5.5 A and 3.3 VDC / 6.5 A
- Enhanced power-fail prediction and shutdown procedures
- LED indication for power supply status and operating status of the AC 800F
- Short circuit proof, current limited
- 20 ms backup energy for use in the event of primary power failure, according to NAMUR
- G3 compliant Z variant available (see also Chapter "4.6 G3 compliant controllers")

Technical data

Technical data SD 812F	0.	
Input voltage	24 VDC, 2 redundant inputs	
	permissible range 19.2 - 32.5 VDC	
Input current at nominal load	1.7 A at 24 VDC	
Rated input power	41 W C	
Backup energy for the event of power failure	> 20 ms	
Fuse	For each supply: subminiature fuse 3.15 AT,	
	soldered	
Output voltage	3.3 VDC (± 3%) typical	
<i>, 111</i>	5 VDC (± 3%) typical	
Output current	0.5 - 6.5 A to 3.3 V	
	0.5 - 5.5 A to 5.0 V	
Current limit	Approx. 7.5 A	
2	Automatic return to normal operation after short	
	circuit	
Total output power	Max. 35 W	
Weight	0.460 kg, 1.014 lbs	

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	LED displays	Status	Description
	Power	Green	Internal supply voltage is available
	Failure	Off	Normal status
		Orange	Self test
		Flashing orange	Overtemperature occurred during operation
		Red	Hardware failure of the basic unit
		Flashing red	Software failure of the system
	Run/Stop	Green	Processing active
	wogny 6.	Flashing green	Process was stopped and is now started again
		Red	Processing inactive
		Flashing red	Process was active and is stopped now
		Orange	Self test
	200	Off	Software initialization
	Prim/Sec	In case of redundancy please so manual "Mounting and Installation	
· lap		For non-redundancy the states	are:
		Orange	Self test
		Off	Normal status

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Operator controls	Description	
Run/Stop switch	Connected to LED	
Toggle Prim/Sec	For redundancy. Toggles between primary and secondary AC 800F (operational on primary AC 800F only, and only if a secondary AC 800F is available)	
Reset	Reset button press and hold > 4 s for coldstart	

	\bigcirc	Front panel connections		Description
n.c. 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 8 CTS input	Power supply	10	Two connectors for 24 VDC, automatic input selection when used with single power supply
	6 n.c.	Diag		For diagnostics and optional radio-controlled clock 9-pin male connector
	desm	gille.		
15188	910			Product Catalog Freelance 800F V9.1 The controllers

GND 5
n.c. 4
TxD output 3
RxD input 2
Output 1
+5 V/100 mA

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