L-a-v-a-L-I-N-E © *let's talk!* SERIES

Bypass 120

— **Electronic bypass**

— **Rated current 120 A**

— **Overtemperature- and fan failure detection**

— **State report to controller**

— **Active electronic control circuitry**

— **Mains or inverter supply**

— **19"- plug-in case**

— **Redundant to controller**

Picture may differ from actual device

Specifications

General

Electrical safety	EN 60950, VDE 0805
EMC (emission)	EN 50081-1
	Curve EN 55022B
EMC (immunity)	EN 50082-2
Galvanic isolation	3.75 kV$_{DC}$
Operating temperature	-5 to +45 °C non condensing
Failure report	via controller
Current capacity	120A

Electrical connections

Connectors	Front
Line input	5 high current terminal blocks 50 mm^2
Inverter input	8 Phoenix Power-Combicon 3-pole
Controller IN/OUT	Binder round connectors 7-pole male, 4-pole female insert
Databus	2x RJ45 S-UTP

Fusing   (to be provided externally)

Short-circuit	external mains fuse, load limit integral <=15000 A^{2}s by 230V$_{AC}$
Overload	external output fuse, load limit integral <=15000 A^{2}s by 230V$_{AC}$, 120A circuit breaker

Warranty   24 months

Housing

	19"- plug-in case
Size	3 HE / 84 TE, 201mm depth
Weight	app. 7.5 kg
Classification	IP 20
Ventilation	internal fan

Function

The bypass module is built out as a semiconductor switch with active electronic control circuitry and two thyristor modules.

With the bypass the system can be operated either in OnLine mode (load is supplied by inverters) or in OffLine mode (load is supplied by mains). The configuration is set by the controller.

In case of a controller failure the bypass adopts the monitoring off the mains and assures the power supply of the connected load.

To protect the entire system, the fans are monitored and in case of an overtemperature the saystem will automatically be shut down.

In order to be able to change a mains fuse easily in case of a failure, the bypass module has no built-in fuse. This way the fuse can be located on a fuse strip.

Order Code   e.g. LAVBYP-120

	Type	I / A	U$_{IN}$ / VDC	U$_{OUT}$/ VAC	Options
LAV	BYP	120	-	-	-

Separate values by hyphen (-) , append options where applicable