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	3-phase 5 A		PULS
	SL5.300		EMV und Nied-Spg. Richtlinie
Data sheet	 Input: 3 AC 400–500 V Output: 2428V / 120 W Power boost up to 144 W High overload current, no switch-off 3 phase wide range input Robust mechanics and EMC 	POWER Supply SL 5 C C MC: COD ABAYER: OB/OLAL ING BANK L1 L2 L3 O	UL60950 E137006 CUL/CSA-C22.2 No. 60950 UL508 LISTED IND. CONT. EQ. 18 WM, 60°C CB Scheme IEC60950
loout		Output	

Input

•

Input voltage 3 AC 400-500 V, ± 15 % 47-63 Hz, suitable for IT power systems (at 24V/5A) **Rated tolerances** Continuous operat. 340...576 V AC resp. 450...820 V DC Short term (1 min.) 300...620 V AC resp. 420...890 V DC

Even if one phase fails, the unit's operation with nominal current can be continued (limitations: EN 61000-3-2 (harmonic current emissions) is then not fulfilled, the unit has noise suppression level A instead of level B and the hold-up time is shorter). Continued operat. with two phases is also permissible; however, it reduces the unit's reliability and lifetime.

Input current	3 x 0.5 A
Inrush current	typ. <25A at 575 V AC and cold-start

To be fused with a 3 x 10A, B-type 'circuit-breaker' switch based on the usual thermomagnetic overload sensing principle (used anyway to fuse the input lines; unit has no internal fuses).

Harmonic current emissions (PFC)	acc. to EN 61000-3-2
Hold-up time	>16 ms (3 phase op. at 400 VAC, 24 V / 5 A) >10 ms (2 phase op. at 400 VAC, 24 V / 5 A)

Efficiency, Reliability etc.*

Efficiency	typ. 89%	(3 AC 400V, 24 V / 5	5 A)
Losses	typ. 15 W	(3 AC 400V, 24 V /	5 A)
MTBF		acc. to Siemensnorm 3 AC 400V, T _U = 40 °	
Life cycle (electrolytics)		xclusively uses longli or +105°C (cf. 'The S	, ,
* For further information		+ - The - Cilcumption - #	Cilculation - Example -

For further information see data sheets "The SilverLine", "SilverLine Family Branches" and mechanics data sheet (mechanical design equals that of the SL20.100).

Start / Overload Behaviour

Startup delay	typ. 0.1 s	
Rise time	ca. 5-20 ms, depending on load	
Overload Behaviour		
 Special PULS Over- load Design (see diagram overleaf) 20% power boost 	no disconnection, no hiccup if overloaded high overload current (up to typ. 2 · I _{Nom}), Vout is reduced with increasing current. 6 A short-term, at 45°C or forced cooling even continuous	

Advantages:

- High short-circuit current, giving large 'start-up window': unit starts reliably even with awkward loads such as DC-DC converters.
- Secondary fuses operate more reliably



2428 V DC, adjustable by (covered) front panel potentiometer, preset: $24.5 V \pm 0.5\%$ Adjusting range guaranteed			
EN 61000-6-3 (class B) is fulfilled even when using long, unscreened output cabels			
Operation: -10°C+70°C (>60°C: Derating) Storage: -25°C+85°C			
Input	T _{amb}	I _{out} @ 24V	l _{out} @ 28V
3-phase	-10°C+60°C	5 A	4,3 A
	-10°C+45°C	6 A*	5,1 A*
2-phase	-10+60	5 A	4,3 A
DC in	-10+60	5 A	4,3 A
	-10°C+45°C	6 A*	5,1 A*
 * short-term (< 1 min) or with forced air-cooling also at 60°C admissible 			
typ. 6W/	K (at T _{amb} =+	60°C+70°0	C)
better than 2% Vout overall			
< 25 mV _{PP} , (20 MHz bandw., 50 Ω measurem.)			
Overvolt. protection typ. 33 V			
not allowed			
yes; current sharing available on request			
34 V; inapplicable for inductive loads			
or green LED off, at V _{out} <20V			
	panel po Adjusting EN 61000 using lor Operatio Storage: Input 3-phase DC in * * shor also at typ. 6W// better th < 25 mV ₁ typ. 33 V not allow yes; curre 34 V; ina	panel potentiometer, p Adjusting range guara EN 61000-6-3 (class B) is using long, unscreened Operation: -10°C+70° Storage: -25°C+85°C Input Tamb 3-phase -10°C+60°C -10°C+45°C 2-phase -10+60 DC in -10+60 DC in -10+60 * * short-term (< 1 min) also at 60°C admissible typ. 6W/K (at Tamb=+ better than 2% Vout o < 25 mV _{PP} , (20 MHz bat typ. 33 V not allowed yes; current sharing ava 34 V; inapplicable for in	panel potentiometer, preset: 24.5 Adjusting range guaranteed EN 61000-6-3 (class B) is fulfilled evusing long, unscreened output call Operation: -10°C+70°C (>60°C: Do Storage: -25°C+85°C Input Tamb lout @ 24V 3-phase -10°C+60°C 5 A -10°C+45°C 6 A* 2-phase -10+60 5 A DC in -10°C+45°C 6 A* * * short-term (< 1 min) or with force also at 60°C admissible typ. 6W/K (at Tamb=+60°C+70°C better than 2% Vout overall < 25 mV _{PP} , (20 MHz bandw., 50 Ω typ. 33 V not allowed yes; current sharing available on re 34 V; inapplicable for inductive loa

Construction / Mechanics

Housing dimensions and Weight

•	WxHxD	73 mm x 124 mm x 117 mm (+ DIN rail)
٠	Free space for	above/below 50 mm recommended
	ventilation	left/right 15 mm recommended
•	Weight	730 g

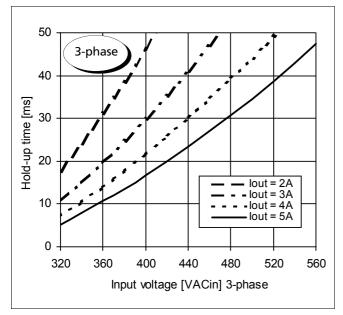
Design advantages:

- All connection blocks are easy to reach as mounted at the front panel.
- Input and output are strictly apart from each other and so cannot be mixed up (Input below, output above).
- * For further information see data sheets "the SilverLine", "SilverLine Family Branches" and mechanics data sheet

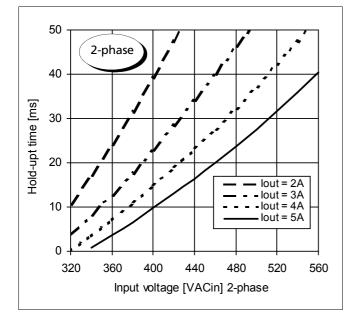
Order information

S	Order number	Description
	SL5.300 SLZ01	Screw mounting set, two needed per unit

Hold-up time, 3-phase (min., at V_{out}=24V)



Hold-up time, 2-phase (min., at V_{out}=24V)



For further information, especially about

- EMC
- Connections
- Safety, Approvals
- Mechanics und Mounting,
- see page 2 of the "The SilverLine" data sheet.

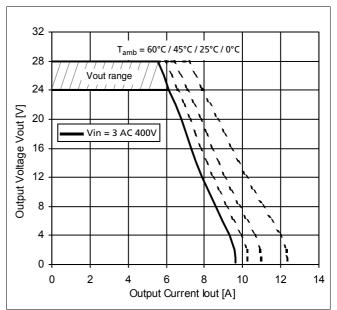
For detailed dimensions

see SilverLine mechanics data sheet SL2.5/ SL5/ SL10

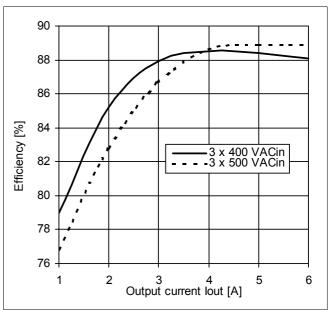
Specifications valid for 3AC 400V input voltage, +25°C ambient temperature, and 5 min run-in time, unless otherwise stated. They are subject to change without prior notice.







Efficiency (typ., at V_{out}=24V)



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