

Low Emission AC/DC-Converter 19"/3U 24W

Single Output CA 24.1

Not for new projects !



Ordering Information

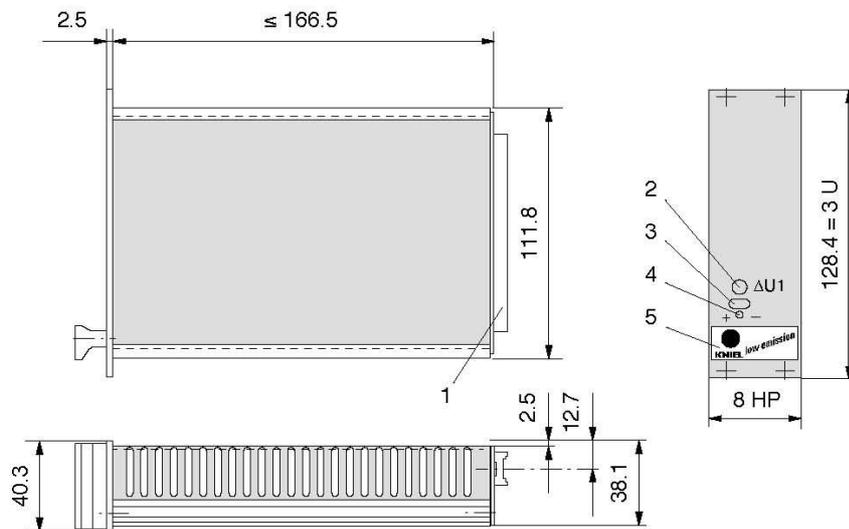
Type	Output () Power Boost	Input Voltage *	Installation Width	Article No. *1
CA 24.1	O1 = 24V ; 1A	115/230 Vac	8HP/3U	171-003-02

* automatic mains shift *1 Front panel: front side anodized, backside chromatinized

Dimensions in mm

- 1 = connector
- 2 = potentiometer
- 3 = test socket
- 4 = LED, green
- 5 = grip

1 HP = 5.08mm



Connector Pin Assignment H15

Free pins may not be connected external!

	Pin
+ Output	4
+ Sense Lead	6
- Output	8
- Sense Lead	10
I/O External ON/OFF	12
Live L1	28
Neutral N	30
Earth PE	32
	leading

Technical Data

Guaranteed values after a warm-up period of approx. 15 min. at nominal load, measured at the unit's output.

Output		O1		
Output Voltage	[Vdc]	24		
Adjustment Range (±)	[V]	2		
Output Current				
Nominal	[A]	1		
Current Limiting	[A]	1.3		
Characteristic Curve		approx. V-I		
Type of Regulation		resonant conv.		
Efficiency	[%]	≥ 84		
Voltage Deviation for				
Load Change 0... 100% (static)	[mV]	≤ 20		
Mains Voltage Change Vin min-Vin max	[mV]	≤ 10		
Residual Ripple (100Hz)	[mVpp]	< 2		
Operating Frequency Ripple (50-190kHz)	[mVpp]	< 6		
Superimposed Switching Spikes	[mVpp]	< 6		
Dynamic Voltage Deviation for ΔIo = 65...100% Inom	[mV]	≤ 80		
Regulation Time for ΔIo = 65...100% Inom	[μs]	≤ 250		
Starting Delay	[ms]	≤ 800		
Sense Lead Operation (load line compensation)	[V]	max. 0.25 per load line		
Overload Protection		continuous short-circuit-proof		
Temperature Coefficient	[ppm/K]	200		
Input Voltage	Nominal	[Vac]	108-120	216-240
Operating Range (automatic mains shift)		[Vac]	+6%/-10% ≈ 97-127	+6%/-10% ≈ 194-254
Frequency		[Hz]	50 - 400 ±10% ≈ 45-440	50 - 400 ±10% ≈ 45-440
in the Event of Mains Failure at Nominal Load: Buffer Time	tBuff	[ms]	≥ 50	
Max. Input Current (nominal range)		[A]	0.6	0.3
Starting Inrush Current				
Unit Cold	$\int i^2 dt ; I_p$	[A ² s] ; [A]	≤ 0.41 ; ≤ 32	
Worst Case	$\int i^2 dt ; I_p$	[A ² s] ; [A]	≤ 1.1 ; ≤ 86	
Unit Fuse (primary, internal)		[A]	T 0.63	
Operating Temperature Range (measured 5mm from the side wall)				
		[°C]	- 25... + 50	
Max. allowed Case-/Radiator-Temperature		[°C]	+ 70	
Storage Temperature Range		[°C]	- 40... + 85	
Weight approx.		[kg]	0.7	

For definitions, informations about electrical safety, EMC and mechanical stressability see description.