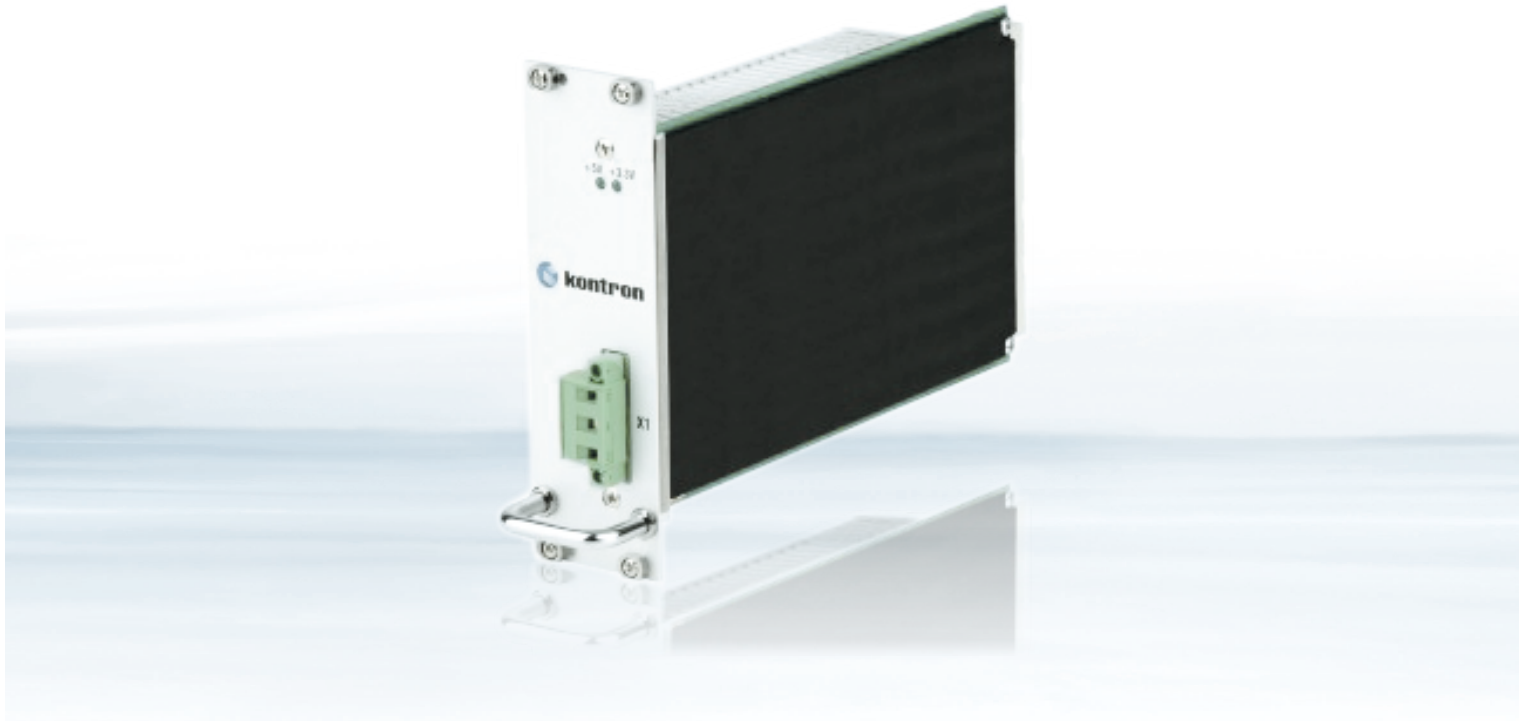


# CP3-SVE-M76AC-230

Power supply for low power CPCI systems

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## 75 Watt AC/DC with M-connector and front input

- ▶ 230 V AC input voltage
- ▶ 3.3 V and 5 V DC output
- ▶ 75 Watt output power
- ▶ 3U/8HP front panel
- ▶ Power input via front

POSSIBILITIES START HERE

# CP3-SVE-M76AC-230

## 75 W AC/DC for low power CPCI systems

The product description provided with this data sheet is regarded as part of the general Kontron CPCI Power Supply manual ID 24139. For further information, in particular general details as well as disclaimer, safety and warranty statements, refer to the CPCI Power Supply Manual.

This power supply is designed for use with standard CPCI systems as well for integration in electronic or electrical enclosures, e.g. Kontron's 19" racks.

### ▶ TECHNICAL INFORMATION

FORM FACTOR	3U
FRONT PANEL SIZE	40.3 mm x 128.4 mm
HEIGHT OF POWER SUPPLY UNIT	3U (128 mm)
WIDTH OF POWER SUPPLY UNIT	8HP (40 mm)
DEPTH OF POWER SUPPLY UNIT	171.9 mm (without connector and handle)
MECHANICS	19" rack
PLUG-IN COMPATIBILITY	yes
POWER SUPPLY CONNECTOR	DIN M24/8 connector
INPUT VOLTAGE	230 VAC
INPUT FREQUENCY	47 ... 63 Hz
OUTPUT VOLTAGES / CURRENTS	V1 = +5.1 V, max. 8.0 A V2 = +3.3 V, max. 8.0 A V3 = +12 V, max. 0.15 A
OUTPUT POWER	75 W
TOTAL MINIMUM OUTPUT LOAD	0 W
COOLING FORCED AIR COOLING	≥ 0.5 m/s recommended
REDUNDANT SUPPLY CAPABILITY	-
STATUS INDICATION	Separate LEDs for V1 and V2
SPECIAL FEATURE(S)	None

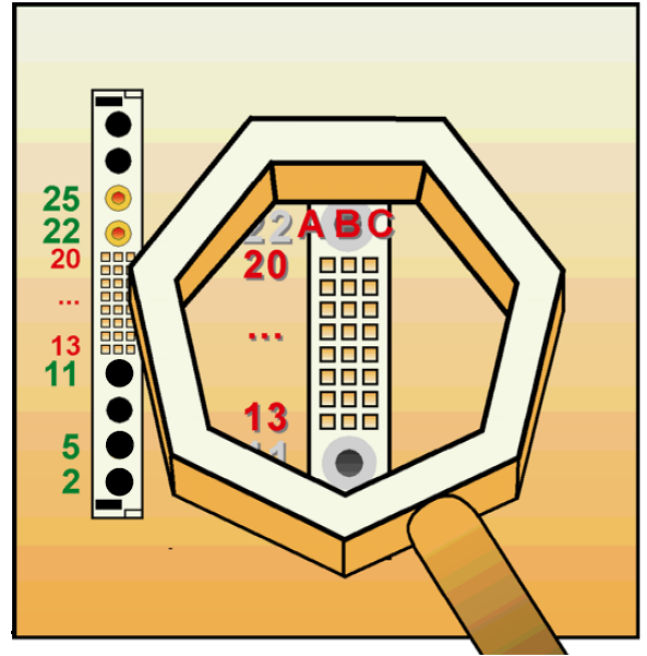


// View of Power Supply Unit CP3-SVE-M76AC-230

## ► DIN M24/8 POWER SUPPLY CONNECTOR

The AC power input is via the front panel connector. The V1 ... V3 output voltages from the power supply unit to the backplane are connected via a 32-pole DIN 24/8 male power supply connector. For the pinouts of the DIN M24/8 power supply connector please refer to the following table.

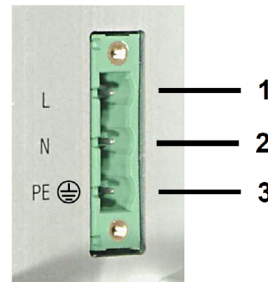
PIN	FUNCTION	PIN	FUNCTION
2	NC	B.17	+3.3 VL
5	NC	B.18	+3.3 VL
11	PE	B.19	+12 VL
A.13	NC	B.20	NC
A.14	NC	C.13	NC
A.15	NC	C.14	NC
A.16	OVF	C.15	NC
A.17	+5 VF	C.16	+3.3 VL
A.18	+3.3 VL	C.17	+3.3 VL
A.19	+12 VL	C.18	+3.3 VL
A.20	NC	C.19	+12 VL
B.13	+3.3 VL	C.20	NC
B.14	+3.3 VL	22	+5 VL
B.15	+3.3 VL	25	OVL
B.16	+3.3 VL		



// Orientation of the DIN M24/8 Power Supply Connector

## ► FRONT PANEL AC INPUT POWER CONNECTOR: PINOUT

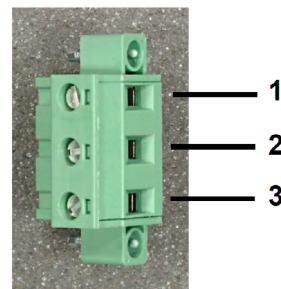
This connector is available for applications requiring input power from the front of the chassis. This is a Phoenix, 3-contact connector (GMSTB 2,5/ 3-GF-7,62). This connector is not designed for "hot-plugging". The figure and table nearby provide pinout information.



PIN	SIGNAL
1	L
2	N
3	PE

## ► LINE INPUT CONNECTOR: PINOUT

This connector is the complementary connector for the application side for connecting to this power supply and is delivered with the power supply. This is a Phoenix, 3-contact plug type connector (GMSTB 2,5/ 3-STF-7,62). The figure and table nearby provide pinout information.



PIN	SIGNAL
1	L
2	N
3	PE

## ▶ INSTALLATION

Thanks to its plug-in compatibility this DIN M-type power supply unit allows for an easy installation, by which the power supply unit's male DIN M24/8 power connector is inserted into the

backplane's mating female connector without the need of any intermediate adaptation.

## ▶ ELECTRICAL SPECIFICATION

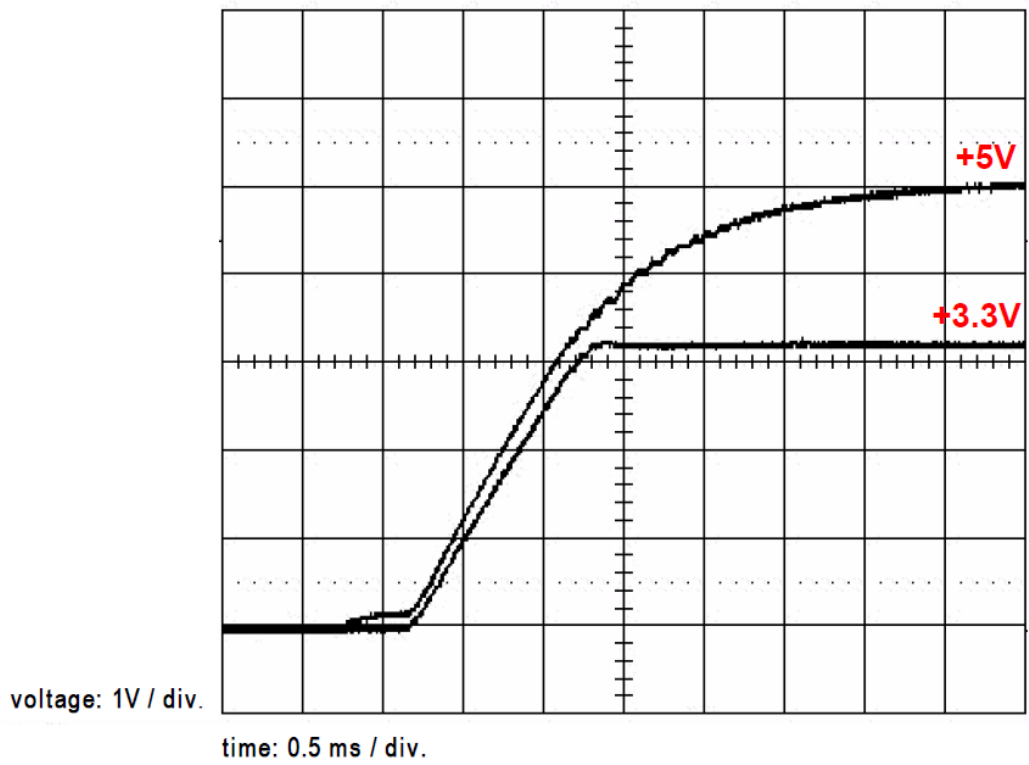
<b>INPUT</b>	
<b>INPUT VOLTAGE</b>	230 VAC, 50/60 Hz, range 184..264 VAC
<b>EFFICIENCY</b>	>80 % (typical)
<b>INRUSH CURRENT LIMITATION</b>	≤ 25 A <sub>peak</sub> cold ≤ 35 A <sub>peak</sub> warm
<b>FUSE</b>	3.15 AT (internal, not user serviceable)
<b>HOLD-UP TIME</b>	> 35 ms at 100 % load
<b>OUTPUT</b>	
<b>OUTPUT POWER V1 (5.1 V)</b>	voltage: 5.1 V, +5/-3% (including ripple and noise) current: min 0.0 A; nominal 8.0 A; peak 12 A for 100 ms
<b>OUTPUT POWER V2 (3.3 V)</b>	voltage: 3.3 V, +5/-3% (including ripple and noise) current: min 0.0 A; nominal 8.0 A; peak 12 A for 100 ms
<b>OUTPUT POWER V3 (12 V)</b>	voltage: 12 V, +8/-7% (including ripple and noise) current: min 0.0 A; nominal 0.15 A; peak 0.2 A
<b>RIPPLE</b>	V1, V2: < 50 mVpp, V3: < 200 mVpp
<b>TOTAL OUTPUT LOADS</b>	min 0 W; max 75 W for all outputs
<b>STATUS INDICATION</b>	green LEDs for V1, V2
<b>RISE-DELAY TIME</b>	< 1 s at 230 VAC
<b>START-UP TIME</b>	≤ 15 ms
<b>REGULATION</b>	
<b>LINE REGULATION</b>	< 0.2 % for V1, V2 at a load of 8.0 A each
<b>LOAD REGULATION</b>	< 0.5 % for V1, V2
<b>PROTECTION AND CONTROL</b>	
<b>OVERVOLTAGE PROTECTION</b>	125 % ± 5 % for V1, V2
<b>OVERLOAD PROTECTION</b>	Current limitation: >150 % I <sub>Rated</sub> for V1, V2 Thermal shutdown with auto-restart for V3 Output permanent short-circuit proof
<b>OVER TEMPERATURE PROTECTION</b>	Switches off if inside temperature becomes too high, restart with hysteresis
<b>ENVIRONMENT</b>	
<b>OPERATING AMBIENT TEMPERATURE</b>	0 °C to + 55 °C (without derating) 0 °C to + 70 °C (with derating)
<b>DERATING</b>	2.0 % / °K between 55 °C and 70 °C
<b>CLIMATIC HUMIDITY</b>	93 % RH at 40 °C, non-condensing (acc. to IEC 60068-2-78)
<b>RECOMMENDED AIRFLOW</b>	≥ 0.5 m/s
<b>EMC</b>	
<b>INTERFERENCE SUPPRESSION/ IMMUNITY</b>	EN 61000-6-2:2005/AC:2005, EN 61000-6-1:2007
<b>INTERFERENCE EMISSION</b>	EN 61000-6-3:2007 +A1:2011/AC:2012; EN 61000-6-4:2007 +A1:2011
<b>SAFETY</b>	
	EN 62368-1:2014, IEC 62368-1:2014 (Second Edition)

### WARNING!

Adequate thermal cooling of the power supply must be ensured. Therefore do not obstruct or hinder cooling air circulation or heat conduction within the power supply or surrounding equipment.

Failure to comply with this warning may result in damage to your equipment.

▶ OUTPUT POWER DIAGRAMS



// Signal when switched on

▶ ORDERING INFORMATION

ARTICLE	DESCRIPTION
CP3-SVE-M76AC-230	CompactPCI Power-Supply 75 W, 230 VAC, Out:+3.3 V/8 A, +5 V/8 A, 12 V/0,15 A. M24/8 type backplane connector, 8HP/3U front panel, Power input on Front connector, LED Indicator. Replacement of CP3-SVE-M76AC

▶ GLOBAL HEADQUARTERS

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