

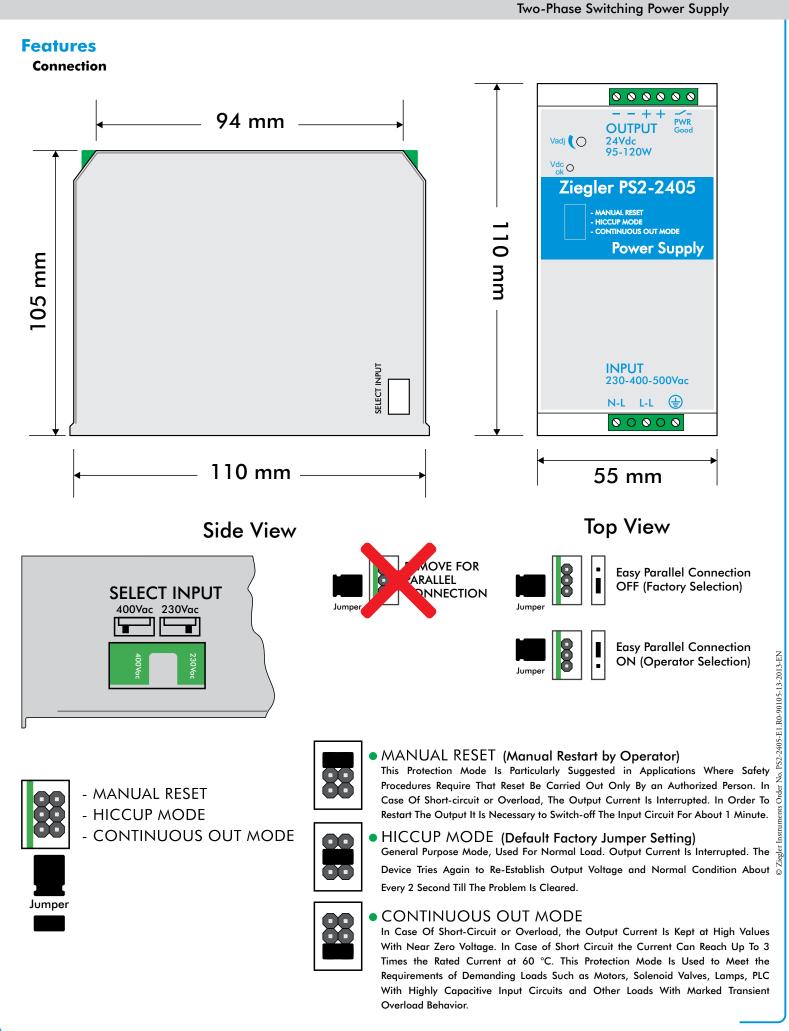


PS2-2405 Two-Phase Switching Power Supply

# **Features**

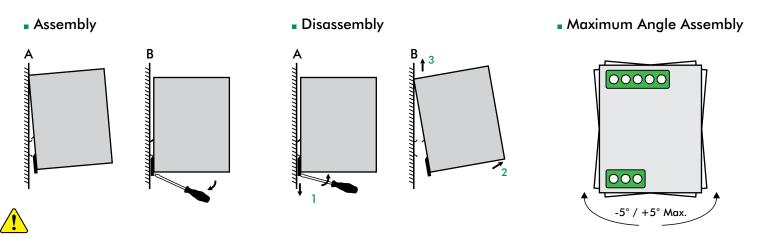
		Connection
Input Data		
Nominal Input Voltage (2 x Vac)	230 Vac - 400 Vac - 500 Vac	
Manual Select Input From 230 V to 400 V-500		
Input Voltage range (Vac)	187 Vac to 264 Vac (230 Vac)	
	330 Vac to 550 Vac (400-500	Vac)
Inrush Current (Vn and In Load) I <sup>2</sup> T	≤ 17 A ≤ 5 msec.	
Frequency	47 Hz to 63 Hz ±6%	AC
Input Current (230 Vac - 400 Vac - 500 Vac)	1.0 A - 0.5 A - 0.4 A	
Internal Fuse	<u>T4A</u>	
External Fuse (recommended)	10 A (MCB Curve B)	DC
Output Data		be
Output Voltage (Vn) Factory Setting ±3%	24 Vdc	2 Phase
Adjustment Range (Vadj)	22 Vdc to 27 Vdc	
Start Up with Strong Load (Capacitive Load)	< 50.000μF	Serial Connection
Turn-On Delay After Applying Mains Voltage	1 sec. (Max)	
Continuous Current at 24 V < 40 °C (In)	5 A (Permanent)	
Continuous Current at 24 V < 50 °C (In)	4.5 A (Permanent)	
Continuous Current at 24 V < 60 °C (In)	4 A (Permanent)	
Power Boost Current at 24 Vdc 60 °C (In)	In (60 °C) × 1.5 $\geq$ 3 min.	
Current Max. Overload $\cong$ 4 Vdc (Permanent)	Imax = In 60 °C × (1.8 - 2.2)	
Current Short Circuit (Icc)		LOAD
Max 2 sec.: Hiccup Mode	12 A	
Permanent: Continuous Mode		
Hold-up Time (Min. Vac) 24 Vdc 5A	Typ. 20 msec	
Residual Ripple	< 80 mV <sub>pp</sub>	
Efficiency	≥ 91 %	
Over Temperature Protection	Yes. Shut-Down Output and Automatic Restart.	
Short-Circuit Protection	1° Manual Reset	Parallel Connection
	2° Hiccup Mode	Provided Commentions Produced and an
	3° Continuous Out Mode	Parallel Connection Redundancy
Dissipation Power Load Max (W)	11 W	
Over Load Protection	Yes	
Over Voltage Output Protection	<b>Yes.</b> (Typ. 35 Vdc)	
Parallel Connection	Yes	
Power Good Contact Rating (EN60947.4.1):		DC
Max. DC1:30 Vdc 1A; AC1: 60 Vdc 1A	Resistive Load	
Min. 1 mA at 5 Vdc	Min Permissive Load	
Climatic Data		
Ambient Temperature Operation	-25 °C Up to +70 °C	
· · · · · · · · · · · · · · · · · · ·	(>60° Derating 2.5% °C)	
Ambient Temperature Storage	-40 °C Up to +85 °C	
Humidity at 25 °C, No Condensation	95 % to 25 °C	
General Data		Parallel Connection, to Increase Output Power $\begin{array}{c} \\ \hline \\ $
Isolation Voltage (Input / Output)	3000 Vac	240 s.
Input / Ground Isolation PE (Input / PE)	1605 Vac	
Output / Ground Isolation PE (Output / PE)	500 Vac	
Protection Class (EN/IEC 60529)	IP20 (Degree of Protection)	
Reliability: MTBF IEC 61709	> 500.000 h	
Pollution Degree Environment	2	
Connection Terminal Blocks Screw Type	2.5 mm (24 AWG to 14 AWG)	
Protection Class	I with PE Connected	
Dimension (W-H-D)	55 mm × 110 mm × 105 mm	
Weight	0.50 kg Approx.	
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DC



All specifications are subject to change without notice

### **Rail Mounting**



Other Models / Modules Must have a Minimum Vertical and Horizontal Distance of 10 cm to This Power Supply in Order to Guarantee Sufficient Auto Convection. Depending on the Ambient Temperature and Load of the Device, the Temperature of the Housing Can Become Very High.

# **Standards and Certification**

#### **Norms and Certifications**

The CE Mark in According to EMC 2004/108/EC and Low Voltage Directive 2006/95/EC.

### **Electrical Safety**

In Compliance to UL508.

According to IEC/EN 60950 (VDE 0805) e EN 50178 (VDE0160) for Assembling Device. The Unit Must be Installed According to IEC/EN 60950. Input / Output Separation: SELV EN60950-1 6 Edition, and PELV EN 60204-1. Double or Reinforced Insulation.

#### **EMC Immunity**

EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-6-2.

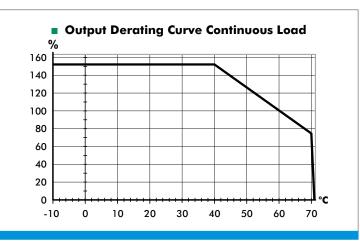
#### **EMC Emission**

EN 61000-6-4, EN 61000-3-2.

#### **Standards Conformity**

EN 60204-1 Safety of Electrical Equipment Machines.

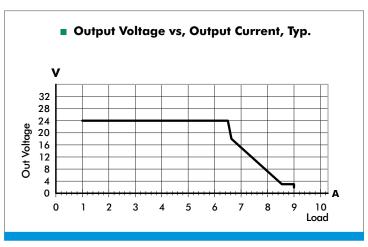
### **Temperature Ratings**



# **Output Device**

made

Germany



**Two-Phase Switching Power Supply** 

### **ZIEGLER INSTRUMENTS**

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nts Order No.

③ Ziegler ]