

Q.PS-AD3-2405, 2-phase power supply

- Input: single-phase 115 - 230 VAC
- Output: One output 5 A - 24 VDC
- Strong overload without switch-off
- Short-circuit protection
- Over-voltage protection
- IP20
- DIN Rail Mountable
- Extremely small size



Features

Input Data

Code	Q.PS-AD3-2405
Input Rated Voltage (2 x VAC)	400 – 480 VAC
Rated Voltage range	360 ÷ 570 VAC
Inrush current (Vn – In)	≤17A ≤ 5 msec
Frequency	47 ÷ 63 Hz
Input current (input rated voltage)	0.7 – 0.6 A
Internal Fuse	F 4 A
External Fuse (recommended)	Fast 4 A

Output Data

Output Voltage (In)	24 VDC ±3% / 5 A 60°C
	24 VDC ±3% / 7 A 50°C
Adjustment range (V _{adj})	22 ÷ 26 VDC
Start up with strong load (capacitive load)	≤ 30.000µF
Switching on delay applying mains voltage	1 sec (max.)
Max. continuous current	10A ± 5%
Reserve Out Current (max. 1 min. 50 °C)	I _{max} = I _n +25% approx.
Hold-up Time (at 100 – 240 Vac)	Typ. 27 msec
Residual Ripple	≤ 60 mV _{pp}
Minimum Load	No
Efficiency	≥ 88 %
Short-circuit protection (hiccup mode)	Yes
Over Load protection (hiccup mode)	Yes
Over Voltage Output protection	Yes (max. 35 VDC)
Parallel connection	Yes
Switching capacity signal output	1 A at 30 VDC

Climatic Data

Ambient Temperature (operation)	-10 ÷ +70 °C (>50°C derating)
Ambient Temperature (Storage)	-25 ÷ + 85 °C
Humidity; no moisture condensation	95 % at +25°C

General Data

Isolation Voltage (Input/Output)	3000 VAC
Input / ground isolation PE	1605 VAC
Output / ground isolation PE	500 VAC
Degree of protection	IP 20
Protection class	I with PE connected
Dimension (w-h-d)	55x115x155
Weight	0.70 kg approx.

Norms and certifications

According to EMC 89/336/EEC and Low voltage 93/68/EEC

Electrical Safety

According to IEC/EN 60950 (VDE 0805) and EN 50178 (VDE 0160) for assembling device.
The device must be installed according to IEC/EN 60950.

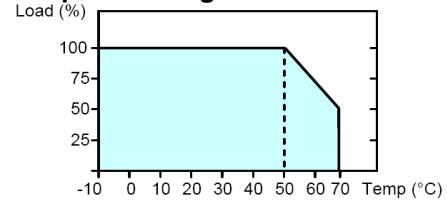
Generic

Immunity according to EN50082-2 Level 4 Class B
Noise Radiation according to EN 55011

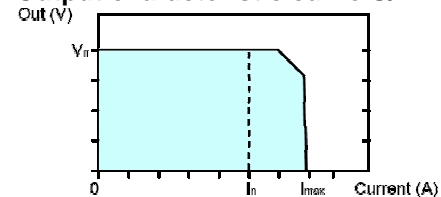
Saia-Burgess Controls AG

Bahnhofstrasse 18, 3280 Murten, Switzerland
T +41 (0)26 672 71 11, F +41 (0)26 672 75 05
www.saia-cc.com

Output derating curve



Output characteristic curve U/I



Dimensions

