

SMART TRANSFORMER

pSmart

Three Phase Servo Electronic Transformer

This product is an ultra-small-volume *three-phase servo electronic transformer* specially designed for the mismatch between the AC Power Supply voltage and the AC servo motor voltage. It minimizes the issues of traditional coil-type transformers as they are bulky, heat-generating, power-consuming and difficult to install. It does not cause pollution to the power grid. It is an ideal product for solving power adapter problems in industrial control systems and is fundamentally different from power-frequency transformers in terms of performance. Using this new-age product is a qualitative leap forward.

This product uses the most cutting-edge microwave devices. Three-phase full-bridge switch resonant technology, SPWM modulation technology, which completely eliminates EMI interferences. It is widely used with Panasonic, Delta, Fuji, Schneider, Mitsubishi, Yaskawa, Sanyo, Dongguan, Fujitsu, Hitachi, Omron, AB, Frank, Lost, Kobe, Lentz AC Servo products. The transformer capacity can be from 2KW-80KW, which satisfies the entire range of all servo motor voltages.



pSmart Selection Chart - Three Phase Servo Electronic Transformer										
Power Range	2KW-80KW (The servo motor capacity should be 10% less than the servo transformer)									
Input										
Rated Voltage	380VAC (3Phase + N)									
Voltage Range	360VAC ~ 420VAC									
Frequency	50/60 Hz									
Output										
Rated Voltage	2200VAC (3Phase + N)									
	200VAC ~ 420VAC									
	>99.8%									
Protection										
Over Voltage	The output voltage is higher than 10% (adjustable), cut off the input in 3~5s									
Under Voltage	The output voltage is lower than 15% (adjustable), cut off the input in 3~5s									
Overload	If over current, cut off the input in 3~5s									
Working Environment										
Ambient Temp.	0°C-50°C (No Condensation)									
Working Humidity	20%-90%									
Dimension										
Power Rating	1.5KW	2KW	3KW	5KW	7.5KW	11KW	15KW	20KW	22KW	30KW
Model No	PSX1.5	PSX2	PSX3	PSX5	PSX7.5	PSX11	PSX15	PSX20	PSX22	PSX30
Size WxDxH(mm)	142x76x46			213x76x46	215x105x55	215x105x90	253x105x128			
Weight (Kg.)	0.5	0.6	0.7	1	1.3	1.6	2.5	2.7	2.9	3.2

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Features

- Output and input current of the automatic regulation servo systems are not affected by the change of current, which better the performance of the servo motor.
- Aesthetic appearance, small frame-size, low weight, easy to install and carry.
- Low power, low heat, no noise, anti-jamming, advanced electromagnetic compatibility.
- Immediate current load capacity, 3-5 times of rated current.
- Safe and reliable. Life cycle more than 20 years.
- Excellent performance with efficiency > 99.8%
- Lightning stroke protection, extreme voltage/current protection. Keep working under lacking phase. Optional working in parallel connection.
- Typical applications: CNC machine tools, testing machines, winding machines, teaching machines, packaging machinery, semiconductor machinery, printing machinery, textile equipment, automation equipment industry.



Intelligent - Aesthetic - Low Power - Advance Electronics - Safe & Reliable - Rugged

ABOUT US

Pinnacle Industrial Controls is an established industrial automation and control system solutions company. With over 23 years of experience. We partner with clients spread across the world, ranging from mid-sized companies to MNCs from OEMs to end users. Our engineers are well equipped to execute customized integration needs of the pharmaceutical industry world. They are well equipped with knowledge base across various software, hardware, operating systems, network and manufacturing processes.

INNOVATION DRIVES OUR AUTOMATION



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