

MTPC-DB-120.240V-7.5KW-25A-N3R

7.5 kW Digital Phase Converter, 120/240V Single-Phase Input, 240V Three-Phase Output, 25 Amps, NEMA 3R

Product ID: 330810

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Image: MTPC-DB-120.240V-7.5KW-25A-N3R

Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

MTPC-DB-120.240V-7.5KW-25A-N3R Digital Phase Converter

AC Input Rated voltage (Vac): 120/240V split phase

Input rated voltage range: 110/120/220/230/240Vac (optional)

Rated current (A): 45 Amps

AC Output Rated power (Kw): 7.5KW

Rated voltage: 240 VAC

Output voltage range: 220/230/240Vac (optional)

Output phases: 3 phase 3 wires

Rated current (A)2: 22 Amps

Output frequency: 50Hz/60Hz±0.05Hz (Can be set)

Waveform: Pure sine wave

Voltage accuracy: Load balancing≤1%, Unbalanced load≤5%

Waveform distortion rate (THD): Linear load≤2%, Nonlinear load≤3%

Unbalance ability: ≤20% (long-term unbalanced load will affect the life of equipment)

Dynamic Response: 5%, ≤50ms (load 0□100%)

Power Factor (PF): 0.99

Inverter Efficiency: >94%

Electrical insulation properties: 2000Vac, 1 Minute

Overload Ability: 150%, 10s

Protection: Input under voltage, overvoltage, output over-current, short circuit, overheating etc.

Display: LCD+LED

Ratings/Approvals

IP20



Cooling method: High speed fan

Short-circuit protection: No automatic recovery, need to restart the machine

Weather Rating: IP20 (indoor)

Working temperature (°): -20°+50°

Noise (1 meter): ≤50dB

Dimensions: 21.26"W x 17.72"D x 29.92"H

Weight: 132.28 Lbs

Special Orders - Special Requirements

Contact us for special requirements

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Made in the USA

The Larson Electronics three-phase to single-phase digital phase converter using AC-DC-AC circuit structure and SVPWM modulation control technology, can convert ordinary single-phase power to three-phase power. With our digital phase converter, single-phase to three power conversion, the three-phase power output has a balanced and pure sine wave, the harmonic distortion rate (THD) is less than 2%, which meets the national standards of three-phase power quality, applicable to all types of loads. The Larson Electronics single-phase to three-phase digital phase converter can solve production inconvenience with three-phase electric power restrictions and save the cost of having the utility company bring 3 phase power into your shop.

The core components are all manufactured in the US, using the central processor DSP28335 chip from American TI Company, respond quickly and accurately, and provide stable and clean power for the load to provide protection.

The phase converter offers two different start modes: Step Down Voltage Start and Variable Frequency Start. Customers can set the start mode according to the type of load they have. This function is very convenient for users and reduces frequency converter's usage, which lowers the cost of equipment investment. The digital phase converter uses a modular, plug-in-play design, which is convenient for maintenance. It also includes built in safety designs, using an isolation transformer design, the input and output are completely electrically isolated. The input and output are also equipped with circuit breakers, which will save you the costs of having to run a new circuit in your shop. The electric parts are completely enclosed to prevent electric shock.



Frequently Asked Questions (FAQ)

There are no Fags



Image: MTPC-DB-120.240V-7.5KW-25A-N3R



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Export Control Classification Number (ECCN): EAR99



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- **HigResPic1**(<https://www.larsonelectronics.com/images/product/HigResPic1/330810.JPG>)
- **HigResPic2**(<https://www.larsonelectronics.com/images/product/HigResPic2/330810.JPG>)
- **HigResPic3**(<https://www.larsonelectronics.com/images/product/HigResPic3/330810.JPG>)
- **Video1**(https://www.youtube.com/watch?v=OpGTt_iZfvg)
- **ISO 9001 Certification**(<http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF>)
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