Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

MTPC-DB-575V-150KW-54.71A-N1

DIGITAL Phase Converter for 100HP Hard Loads, 575V 1PH to 3PH, 54.71 Amps Output, 200HP Idler, NEMA 1

Product ID: 308640

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



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-575V-150KW-54.71A-N1 Digital Phase Converter

AC Input Rated voltage (Vac): 575V single phase
Input rated voltage range: 110/120/220/230/240Vac (optional)
Rated current (A): 54.71 Amp
AC Output Rated power (Kw): 150KW
Rated voltage: 575VAC
Output voltage range: 220/380/400/415/440/480Vac (optional)
Output phases: 3 phase 4 wires
Rated current (A)2: 176.76 Amp
Output frequency: 50Hz/60Hz±0.05Hz (Can be set)
Waveform: Pure sine wave
Voltage accuracy: Load balancing1%, Unbalanced load5%
Waveform distortion rate (THD): Linear load2%, Nonlinear load3%
Unbalance ability: 20% (long-term unbalanced load will affect the life of equipment)
Dynamic Response: 5%, 50ms (load 0100%)
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
Cooling method: High speed fan
Short-circuit protection: No automatic recovery, need to restart the machine
Weather Rating: IP20 (indoor)
Working temperature (): -20+50

Ratings/Approvals

IP20

Special Orders - Special Requirements

Contact us for special requirements
Toll Free: 1-800-369-6671

Noise (1 meter): 60dB
Dimensions: 35.43”W x 39.37”D x 62.99”H
Weight: 1,499.14 Lbs

Intl: 1-903-270-1187
Fax: 1-903-498-3364
E-mail: sales@larsonelectronics.com

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.

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Frequently Asked Questions (FAQ)

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