TorTech
Total Transformer Solutions ABN. 31 801 764 359

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Single to three-phase converters modules.

The modules S, ME, MT and MF utilise the best digital technology for converting single-phase power to three-phase. Run one or several motors in a workshop or on a farm.

Throughput		Transformer	Idler-motor	3-phase output
S 0.2	.25kW	not needed	0.25kW (0.33hp)	240V
S 0.5	.55kW	not needed	0.55kW (0.75hp)	240V
S 1	1.1kW	not needed	1.1kW (1.5hp)	240V
S 2	2.2kW	not needed	2.2kW (3hp)	240V
S3	3kW	not needed	3kW (4hp)	240V
ME4	4kW	4.5kVA	3.7kW (5hp)	415V
ME8	8kW	9kVA	7.5kW (10hp)	415V
MT8	8kW	9kVA	7.5kW (10hp)	415V balanced
MT12	12kW	14kVA	11kW (15hp)	415V balanced
MT16	16kW	19kVA	15kW (20hp)	415V balanced
MT24	24kW	27kVA	2x 11kW (15hp)	415V Balanced

VERSATILITY

S will run a small and simple machine up to 3kW. Change the motor to 240V in the motor's terminal box. If there is a contactor: change the control transformer or contactor to 240V as well.

ME and MT can power 415V electric motors and multiple machines.
No need to change anything inside a machine.

MT modules with their balanced output voltages can run all kind of welders, inverters, variable frequency drives, plasma cutters.

Modules ride through blackouts, brownouts, power surges, fast transients, short-circuits, line disturbances without stopping. A module is indestructible as long as it is fused correctly.

POWER QUALITY

Modules connected to motors produce true sine waves. Phase angles are correct: 120 degrees. Supporting boost currents are generated each time a motor starts. Motors in machines run at full speed. No EMC is generated, no filters are needed.
The number of solid state thyristors inside a module: S and ME one. MT three or four.

Modules do not produce any harmonics, line disturbances or any electromagnetic radiation. Utility companies have no problem accepting our products in their networks.
An input auto transformer may be needed to produce the 415V required in all M modules. An idler motor is recommended for module S and required for all M modules.
Output voltages on MT and MF modules are digitally balanced to run sensible CNC equipment.

ECONOMY

Utility supplied three-phase services can cost thousands of dollars to install, even when three-phase lines are nearby. Efficiency of a module is 98%.
Overall efficiency of a complete converter with transformer and motor is 95 - 96%.

EASY INSTALLATION AND EASY OPERATION

Installation of a module is straightforward and simple and is accomplished by an electrician in a very short time. No switches, no controls inside a module, no indicators to be monitored.