



## Single to three-phase converter module S

Most single speed motors 3kW and smaller can be connected to run on 240V three-phase voltage. Instructions can be found inside the terminal box.

The module S produces 240V three-phase power when connected to a motor. There are two modes of operation: Static (some drawbacks) and Rotary (best).

Static mode without an idler motor:

- \* The motor power must match the converter's power rating.
- \* Only one motor in delta configuration is allowed in one machine (almost all are delta). \*
- Motor or machine will only develop maximum torque of about 75%.
- \* Acceleration at start is relatively slow (about 0.5 sec without inertia).

Rotary with a free-running idler motor the power size of the S module: \*

Machines with multiple motors in different sizes can be operated.

- \* Motors can be in star or delta configuration. \*

Motors develop high torque (about 95%).

- \* Acceleration at start is fast (about 0.2 sec without inertia).

Details:

- \* Contact-free zero crossing single-thyristor technology.
- \* Almost indestructible as long as connected and fused correctly.
- \* True sine wave output, 120 degrees angles when a motor is connected. \* No control elements, no indicators. Easy to operate.
- \* IP66 water resistant.
- \* Boost currents are generated each time a motor starts or reverses.
- \* Will run machines if motors and controls are set to 240V operation.

A module S rides through brownouts, power surges, fast transients, short-circuits, line disturbances without stopping.

Clean power: no harmonics, no line disturbance, no electromagnetic radiation is generated.

Module:	Load motor kW:	in hp:	Circuit breaker:	Idler motor kW
S0.2	0.18 - 0.25	0.25 - 0.33	5A	0.25
S0.5	0.37 - 0.55	0.5 - .75	5A	0.55
S1	0.75 - 1.1	1 - 1.5	5A D- curved or motor rated	1.1
S2	1.5 - 2.2	2 - 3	10A D- curved or motor rated	2.2
S 3	3	4	15A D- curved or motor rated	3

Three-phase output is 1 - 2 - 3 and PE (Protective Earth).

Connect 240V controls between module output L1 and L3 or between output L3 and Neutral.

Dimensions 250 x 150 x 130 mm.

Weight is about 2-4 kg depending on throughput.

