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# EAC-ST-3P 3 Phase Voltage & Frequency Converter

## Description

These cost effective units excel in applications requiring a 3 phase output with adjustable voltage. The output frequency can be switched between 50 & 60Hz enabling the user to replicate all worldwide standard 3 phase mains outputs. Other output frequencies such as 400Hz can be specified in place of the standard 50/60Hz. Fixed output voltage levels can also be specified ensuring the EAC-S-3P is suitable for simple voltage and frequency conversion. High power conversion efficiencies mean these floor standing models are as compact as possible. A variety of protection features are incorporated in to the design including over current, over temperature and output short circuit. The input and output are galvanically isolated from each other. At mains frequencies a clean sinewave with less than 2% distortion is produced at the output. A useful feature is that the front panel functions can be locked out. This helps to ensure that applications which require a continuously stable voltage and frequency conversion are not accidentally compromised. The standard range has models providing an output up to 15kVA per phase. The high peak current capability of up to 4 times the continuous current means that these units are suitable for almost all motor type loads. Non-standard voltage and frequency values along with higher output powers up to 250kVA are available on request.



- 3 Phase Output with Adjustable Voltage
- Front Panel Lock Out Function
- Switchable Output Frequency
- Very Fast Response Times
- High Efficiency up to 90%
- Galvanic Isolation

## Selection Table

Part Number	Input Phases	Output Voltage*	Output Current	Max Power	Dimensions (Width x Height x Depth)
EAC-STT 09T	Three	0 - 400Vrms	3 * 13A	3 * 3kVA	400 x 625 x 770mm
EAC-STT 15T	Three	0 - 400Vrms	3 * 22A	3 * 5kVA	400 x 625 x 770mm
EAC-STT 21T	Three	0 - 400Vrms	3 * 30A	3 * 7kVA	400 x 625 x 770mm
EAC-STT 30T	Three	0 - 400Vrms	3 * 43A	3 * 10kVA	600 x 1800 x 800mm
EAC-STT 45T	Three	0 - 400Vrms	3 * 65A	3 * 15kVA	600 x 1800 x 800mm

\* These are phase to phase values. Different output ranges and application/user specific options are possible. Please contact ET to discuss your requirements.



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# EAC-ST-3P 3 Phase Voltage & Frequency Converter

## Technical Data

	EAC-STT 09T	EAC-STT 15T	EAC-STT 21T	EAC-STT 30T	EAC-STT 45T
<b>Output Ratings</b>					
Max Output Power	3kVA per phase	5kVA per phase	7kVA per phase	10kVA per phase	15kVA per phase
Max True Power at 0.8 pf	2.4kW per phase	4kW per phase	5.6kW per phase	8kW per phase	12kW per phase
Max Continuous Current	3 * 13A	3 * 22A	3 * 30A	3 * 43A	3 * 65A
Peak current Capability	3 * 20A < 3 sec	3 * 33A < 3 sec	3 * 45A < 3 sec	3 * 64A < 3 sec	3 * 97A < 3 sec
Peak current Capability	3 * 52A < 2ms	3 * 88A < 2 ms	3 * 120 < 2ms	3 * 172 < 2ms	3 * 195 < 2ms
Crest Factor	4 : 1				
Voltage Range	0 - 230/400Vrms	0 - 230/400Vrms	0 - 230/400Vrms	0 - 230/400Vrms	0 - 230/400Vrms
Voltage accuracy	< ± 1Vrms				
Output Frequency	50 / 60Hz Switchable (Option /F400 for 400Hz other output frequencies on request)				
Frequency Accuracy	0.001% of nominal				

## Input Ratings

Input Voltage Range	350 - 440Vrms	350 - 440Vrms	350 - 440Vrms	350 - 440Vrms	350 - 440Vrms
No of Input Phases	3	3	3	3	3
Input Frequency Range	47 - 63Hz				

## General

Operating Temp Range	0 to +40°C
Storage Temp Range	-20 to +70°C
Distortion Factor	< 2%
Response Time	typically <1ms for 10 - 90% load change
Efficiency	Typically 90%
Front panel Meters	4 digit for V & I (accuracy ± 2%)
Analogue Interface	0 - 10Vdc (not isolated)
Protections	over current, over temperature, output short circuit

## Mechanical

Case style	Tower	Tower	Tower	Tower	Tower
Dimensions	400 x 625 x 770mm	400 x 625 x 770mm	400 x 625 x 770mm	600 x 1800 x 800mm	600 x 1800 x 800mm
Weight	82kgs	98kgs	135kgs	200kgs	275kgs

## Options Table

Code	Description
/F400.....	Fixed 400Hz output frequency
/FXXX.....	User specified output frequency
/LTRS232.....	RS232 Interface with listener and talker functions
/V500.....	Extended output voltage range 500Vrms
/V700.....	Extended output voltage range 700Vrms