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one step
ahead

New

Your supplier
of industrial
electronics

BIG ENOUGH TO MATTER - SMALL ENOUGH TO CARE

ECF-DOUBLE-HP

PRODUCT DATA	
ECF-DOUBLE-HP	2900 4400
Supply range	1 x 180-260V~ 50/60Hz
Supply current	13A 20A
Output current	10.8A 16.2A
Output power	2.9kW 4.4kW
PFC	Active PFC - PF >0.99
Efficiency	> 94%
Working ambient temp	-25°C to +65°C
Storage temp	-40°C to +70°C
Working humidity	0-90% RH non condensing
Protection class	IP 20
Inrush current	Limited max 5A
CE	2006/95/EC (LVD) - 2004/108/EC (EMC) - 2002/95/EC (RoHS)
Leakage current	< 3.5mA
Motor protection	Safety input from high pressure switch or else shuts down safely
Inverter protection	Motor shorts – PE Short – Motor blocked – Motor phase loss
Max voltage trip fault	approx. 265V~
Min voltage trip fault	approx. 170V~
Temperature stop	At approx. 110°C the inverter is stopped
Size	170 x 120 x 80mm
Weight	0.9 Kg
Cover	PC/ABS BLACK
Baseplate	6mm ALU slightly convex – 4 x Ø6mm mounting holes
LED indication	2 color LED multiple purpose – software controlled
Modbus - Default	RTU : 9600 - 8 bit - 1 stop bit - even parity – address 1
Cooling	Mounting of 6mm alu baseplate on external heatsink, ie heat exchanger for proper cooling is mandatory

ECF-DOUBLE-HP

Eltwin ECF series are new and unique PM motor controllers for the growing market of energy saving fans etc. It is also a SENSORLESS controller, so there are no need for positioning sensors in the PM motors. They are very compact EC drives for mounting on customers heat sink.

Permanent magnet synchronous motors are highly efficient and widely used today for fans, compressors, pumps and other applications. Compared to traditional frequency inverters and AC motors, the new EC and attached PM motor can save between 20-30% of energy.

Its a GREEN product that meets new environmental demands around the world.

Moreover, PM motors have a flat characteristic, so the torque is almost constant during the controllable speed range.

These Inverters have an efficiency of about 94-96% and the motor is controlled using FOC Sinusoidal motor currents

ECFs employs the newest technology within sensor less control of PM motors, and will be best suited for environmental demands in the future. Motors have to be matched to the controller for optimum performance and energy savings. Eltwin will optimize these inverters to match the specific motors together with the customer.