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eltwin
Big enough to matter - Small enough to care

ECF-DOUBLE-L-HP

PRODUCT DATA			
ECF-DOUBLE-L-HP	3300	5500	7500
Supply range	3 x 310-460V~ 50/60Hz		
Supply current	7A	12A	16A
Output current	8.1A	13.5A	18.9A
Output power	3.3kW	5.5kW	7.5kW
PFC	No PFC		
Efficiency	> 96%		
Working amb.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	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 volt. Trip fault	approx. 465V~		
Min volt. Trip fault	approx. 305V~		
Temperature stop	At approx. 110°C the Inverter is stopped		
Input current limit	None		
Size	170 x 120 x 70mm		
Weight	0.8 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-L-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.