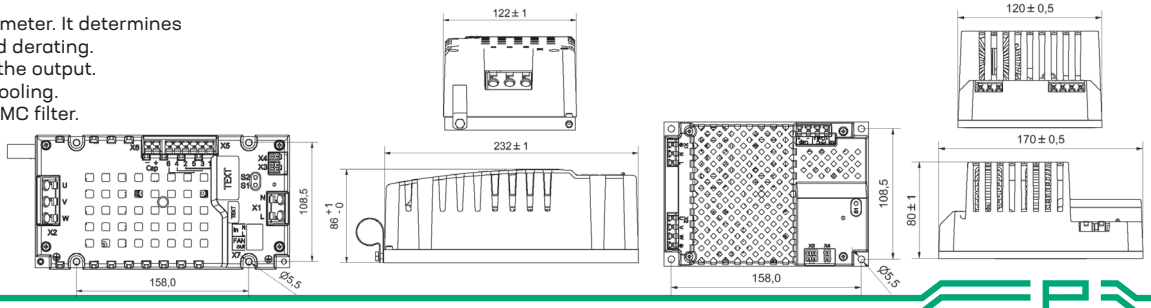
eltwin

EC

PURE drives / single phase input

Type	PURE-2200	PURE-2900	PURE-4400	PURE-8000
OUTPUT				
Nominal Power	2.2 kW	2.9 kW	4.4 kW	8 kW
Nominal Current	8.1 Arms	10.8 Arms	16.2 Arms	24 Arms
Voltage Amplitude Range	0 - 230 V_{rms}			
Voltage Frequency Range	0 - 400 Hz			
Motor Type	3 phase permanent magnet synchronous motor (FOC mode), 3 phase induction motor (V/F mode)			
Control Method	Sensorless Field Oriented Control (FOC)			
INPUT				
Supply Range	1 x 208 - 230 $^{+10}_{-15}$ % V_{rms} 50/60 Hz			1 x 208 - 230 $^{+10}_{-15}$ % V_{rms} 50/60 Hz
Nominal input current	10.3 Arms	13.4 Arms	20.6 Arms	42 Arms
PFC Filter Type	Active (PF > 0.99)			
PROTECTION				
Max. input current(1)	10.3 Arms	13.4 Arms	20.6 Arms	43.0 - 37.1 Arms
Max. output current(1)	8.9 Arms	11.9 Arms	17.8 Arms	26.4 Arms
Max. output power (1)	2.2 kW	2.9 kW	4.4 kW	8 kW
INV PM Gate Kill (2)	25 Apk	33.3 Apk	50 Apk	55 Apk
PFC PM Gate Kill (2)	25.0	33.0	50.0	34.0
PFC-INV PM Over-Temp 1(1)	194 °F (90 °C)			
PFC-INV PM Over-Temp 2(2)	230 °F (110 °C)			
Max. input voltage(2)	approx. 264 V_{rms}			
Min. input voltage(2)	approx. 178 V_{rms}			
Safety Shutdown Input(2)	Yes			
GENERAL				
Efficiency at full load	> 92 %	> 92 %	> 92 %	> 92 %
Working ambient temperature	-13 °F (-25 °C) to +150 °F(3) (+65 °C(3))			
Storage temp	-40 °F (-40 °C) to +158 °F (+70 °C)			
Working humidity	0 - 95 % RH Non condensing			
Storage humidity	0 - 95 % RH Non condensing			
Protection class	IP 20			
Inrush current	Limited Max 5 A			85 Apk (duration <0.9 ms, 253 Vrms)
CE - UL/CSA	2014/35/EU (LVD) - 2014/30/EU (EMC) - 2015/863/EU (RoHS3) - UL60730-1			
Line filter	Included			Not included (4)
Leakage current	< 3.5 mA			
Size	170 x 120 x 80 mm	170 x 120 x 80 mm	170 x 120 x 80 mm	233 x 122 x 86 mm
Weight	0.9 kg	0.9 kg	0.9 kg	1.6 kg
Cover	PC/ABS BLACK			
Baseplate and mounting holes	6 mm ALU slightly convex - 4 x Ø5.5 mm (0.21")			12 mm ALU flat - 4 x Ø5.5 mm (0.21")
Supply- and Motor terminals type	Cage clamp max 4 mm^2 (AWG 12)			16 mm^2 (max AWG 6)
PFC terminal type	Cage clamp max 4 mm^2 (AWG 12)			6 mm^2 (max AWG 10)
Modbus connection	4 pole Mini-Fit Jr. plug			
Safety input connection	2 pole Mini-Fit Jr. plug			
LED indication	2 color LED multiple purpose - software controlled			
Modbus - default	RTU : 9600 - 8 bit - 1 stop bit - even parity - address 1			
Modbus	Configurable - See product manual			
Cooling	Mounting of 6 mm alu baseplate on external heatsink e.g. heat exchanger for proper cooling is mandatory			

(1) Software configurable parameter. It determines when the Drive starts speed derating.
(2) If exceeded, the drive stop the output.
(3) With sufficient baseplate cooling.
(4) Eltwin can provide related EMC filter.



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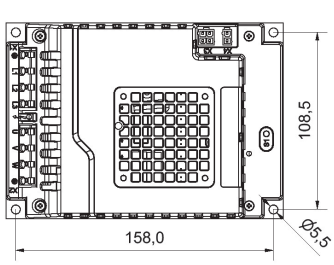
R290

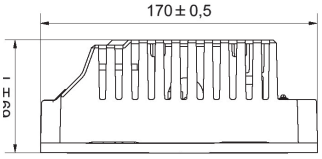
EC

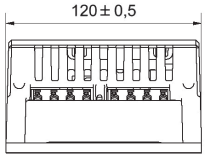
PURE drives / three phase input

Type	PURE-5500	PURE-7500
OUTPUT		
Nominal Power	5.5 kW	7.5 kW
Nominal Current	13.5 Arms	18.9 Arms
Voltage Amplitude Range	0 - 400 V_{rms}	
Voltage Frequency Range	0 - 400 Hz	
Motor Type	Permanent Magnet Synchronous Motor, BLDC	
Control Method	Sensor less Field Oriented Control (FOC)	
INPUT		
Supply Range	3 x 380 - 400 $^{+10}_{-15}$ % V_{rms} 50/60 Hz	
Max. input current	12 A	16 A
PFC Filter Type	Passive filter can be added externally	
PROTECTION		
Max. input current[1]	12 A	16 A
Max. output current[1]	14.9 Arms	20.8 Arms
Max. output power [1]	5.5 kW	7.5 kW
INV PM Gate Kill [2]	30 Apk	43 Apk
PFC PM Gate Kill [2]	N/A	N/A
PFC-INV PM Over-Temp 1[1]	194 °F (90 °C)	
PFC-INV PM Over-Temp 2[2]	230 °F (110 °C)	
Max. input voltage[2]	approx. 465 V_{rms}	
Min. input voltage[2]	approx. 305 V_{rms}	
High Pressure Safety Input[2]	Yes	
GENERAL		
Efficiency at full load	> 96 %	
Working ambient temperature	-13 °F (-25 °C) to +150 °F[3] (+65 °C[3])	
Storage temp	-40 °F (-40 °C) to +158 °F (+70 °C)	
Working humidity	0-95 % RH Non condensing	
Storage humidity	0-95 % RH Non condensing	
Protection class	IP20 / NEMA type 1	
Inrush current	Input Filter dependent	
CE	2014/35/EU (LVD) - 2014/30/EU (EMC) - 2015/863/EU RoHS3	
Line filter	Not included [4]	
Leakage current	< 3.5 mA	
Size	170 x 120 x 69.4 mm	
Weight	0.8 kg	
Cover	PC/ABS BLACK	
Baseplate and mounting holes	6 mm ALU slightly convex - 4 x Ø5.5 mm (0.21")	
Supply terminal type	Cage clamp max 4 mm² (AWG 12)	
Motor terminal type	Cage clamp max 4 mm² (AWG 12)	
Modbus connection	4 pole Mini-Fit Jr. plug	
Safety input connection	2 pole Mini-Fit Jr. plug	
LED indication	2 color LED multiple purpose - software controlled	
Modbus - default	RTU : 9600 - 8 bit - 1 stop bit - even parity - address 1	
Modbus	Configurable - See product manual	
Cooling	Mounting of 6 mm alu baseplate on external heatsink e.g. heat exchanger for proper cooling is mandatory	

(1) Software configurable parameter. It determines when the Drive starts speed derating.
(2) If exceeded, the drive stop the output.
(3) With sufficient baseplate cooling.
(4) Eltwin can provide related EMC filter.







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