



ANEXOS

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Anexo 1 Especificaciones Técnicas PowerPhase Select 50

POWERPHASE® SELECT 50	POWERPHASE® SELECT 75	POWERPHASE® SELECT 125	POWERPHASE® SELECT 145	
MOTOR PERFORMANCE		CONTROLLER PERFORMANCE		
SPECIFICATIONS		OPERATING VOLTAGE		
Peak Power	67 hp	50 kW	Nominal input voltage	300-420 VDC
Continuous power	40 hp	30 kW	Operating voltage input range	240-420 VDC
Peak torque	325 lbf ft	440 Nm	Minimum voltage limit	240 VDC
Continuous torque	133 lbf ft	180 Nm	Input current limitation	400 A
Maximum efficiency	93%			
Power density	0.74 hp/lb	1.22 kW/kg		
DIMENSIONS		DIGITAL SIGNAL PROCESSOR		
Length	8.1 in	206 mm	Nominal input voltage	12 VDC
Diameter	11.0 in	279 mm	Input supply voltage range	8 to 15 VDC
Weight	90 lb	41 kg	Input supply current range	0.3 to 0.5 A
PERFORMANCE CURVE		LIQUID COOLING SYSTEM		
		Minimum coolant flow	8 l/min (50/50 water/glycol)	
		Maximum inlet temperature	131° F 55° C	
		INVERTER TYPE		
		Control type	PWM & phase advance	
		Power device	IGBT module half bridge x3	
		Switching frequency	12.5 kHz	
		Standby power	17 W	
		DIMENSIONS		
		Length	15.0 in 380 mm	
		Width	14.4 in 365 mm	
		Height	4.7 in 119 mm	
		Weight	35.0 lb 15.9 kg	

To view additional efficiency maps, please contact us.

Anexo 2 Especificaciones Técnicas PowerPhase Select 75

POWERPHASE® SELECT 50	POWERPHASE® SELECT 75	POWERPHASE® SELECT 125	POWERPHASE® SELECT 145																																																																		
<h3>MOTOR PERFORMANCE</h3> <p>SPECIFICATIONS</p> <table border="0"> <tr> <td>Peak Power</td> <td>100 hp</td> <td>75 kW</td> </tr> <tr> <td>Continuous power</td> <td>60 hp</td> <td>45 kW</td> </tr> <tr> <td>Peak torque</td> <td>176 lbf ft</td> <td>240 Nm</td> </tr> <tr> <td>Continuous torque</td> <td>110 lbf ft</td> <td>150 Nm</td> </tr> <tr> <td>Maximum efficiency</td> <td colspan="2">93%</td> </tr> <tr> <td>Power density</td> <td>1.11 hp/lb</td> <td>1.83 kW/kg</td> </tr> </table> <p>DIMENSIONS</p> <table border="0"> <tr> <td>Length</td> <td>8.1 in</td> <td>206 mm</td> </tr> <tr> <td>Diameter</td> <td>11.0 in</td> <td>279 mm</td> </tr> <tr> <td>Weight</td> <td>90 lb</td> <td>41 kg</td> </tr> </table> <p>PERFORMANCE CURVE</p> <p>CONTROLLER PERFORMANCE</p> <p>OPERATING VOLTAGE</p> <table border="0"> <tr> <td>Nominal input voltage</td> <td>240-420 VDC</td> </tr> <tr> <td>Operating voltage input range</td> <td>240-420 VDC</td> </tr> <tr> <td>Minimum voltage limit</td> <td>240 VDC</td> </tr> <tr> <td>Input current limitation</td> <td>400 A</td> </tr> </table> <p>DIGITAL SIGNAL PROCESSOR</p> <table border="0"> <tr> <td>Nominal input voltage</td> <td>12 VDC</td> </tr> <tr> <td>Input supply voltage range</td> <td>8 to 15 VDC</td> </tr> <tr> <td>Input supply current range</td> <td>0.3 to 0.5 A</td> </tr> </table> <p>LIQUID COOLING SYSTEM</p> <table border="0"> <tr> <td>Minimum coolant flow</td> <td>8 l/min (50/50 water/glycol)</td> </tr> <tr> <td>Maximum inlet temperature</td> <td>131° F 55° C</td> </tr> </table> <p>INVERTER TYPE</p> <table border="0"> <tr> <td>Control type</td> <td>PWM & phase advance</td> </tr> <tr> <td>Power device</td> <td>IGBT</td> </tr> <tr> <td>Switching frequency</td> <td>12.5 kHz</td> </tr> <tr> <td>Standby power</td> <td>17 W</td> </tr> </table> <p>DIMENSIONS</p> <table border="0"> <tr> <td>Length</td> <td>14.96 in</td> <td>380 mm</td> </tr> <tr> <td>Width</td> <td>14.37 in</td> <td>365 mm</td> </tr> <tr> <td>Height</td> <td>4.69 in</td> <td>119 mm</td> </tr> <tr> <td>Weight</td> <td>35.0 lb</td> <td>15.9 kg</td> </tr> </table> <p>To view additional efficiency maps, please contact us.</p>		Peak Power	100 hp	75 kW	Continuous power	60 hp	45 kW	Peak torque	176 lbf ft	240 Nm	Continuous torque	110 lbf ft	150 Nm	Maximum efficiency	93%		Power density	1.11 hp/lb	1.83 kW/kg	Length	8.1 in	206 mm	Diameter	11.0 in	279 mm	Weight	90 lb	41 kg	Nominal input voltage	240-420 VDC	Operating voltage input range	240-420 VDC	Minimum voltage limit	240 VDC	Input current limitation	400 A	Nominal input voltage	12 VDC	Input supply voltage range	8 to 15 VDC	Input supply current range	0.3 to 0.5 A	Minimum coolant flow	8 l/min (50/50 water/glycol)	Maximum inlet temperature	131° F 55° C	Control type	PWM & phase advance	Power device	IGBT	Switching frequency	12.5 kHz	Standby power	17 W	Length	14.96 in	380 mm	Width	14.37 in	365 mm	Height	4.69 in	119 mm	Weight	35.0 lb	15.9 kg			
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Anexo 3 Especificaciones técnicas PowerPhase Pro 100

POWERPHASE® PRO 100		POWERPHASE® PRO 135	
MOTOR PERFORMANCE		CONTROLLER PERFORMANCE	
SPECIFICATIONS			
Peak Power	134 hp	100 kW	
Continuous power	80 hp	60 kW	
Peak torque	221 lbf ft	300 Nm	
Continuous torque	118 lbf ft	160 Nm	
Maximum efficiency	95%		
Power density	1.22 hp/lb	2.0 kW/kg	
DIMENSIONS			
Length	9.2 in	233 mm	
Diameter	11.25 in	286 mm	
Weight	110 lb	50 kg	
PERFORMANCE CURVE		OPERATING VOLTAGE	
		Operating voltage input range 270-425VDC	
		Minimum voltage limit 270 VDC	
		Nominal voltage 335 VDC	
		Maximum voltage 425 VDC	
		Input current limitation 500 A	
		DIGITAL SIGNAL PROCESSOR	
		Nominal input voltage 12 VDC	
		Input supply voltage range 8 to 15 VDC	
		Input supply current range 0.3 to 0.5 A	
		LIQUID COOLING SYSTEM	
		Minimum coolant flow 8 l/min (50/50 water/glycol)	
		Maximum inlet temperature 131° F 55° C	
		INVERTER TYPE	
		Control type PWM & phase advance	
		Power device IGBT	
		Switching frequency 12.5 kHz	
		Standby power 17 W	
		DIMENSIONS	
		Length 16.6 in	421 mm
		Width 15.6 in	396 mm
		Height 7.1 in	179 mm
		Weight 61.0 lb	27.7 kg

To view additional efficiency maps, please contact us.