



















Ce-DRIVE				EPSRC Engineering and Physical Sciences
Case Study	parameter	Value	Unit	comment
Cylinder Rope Sphere End stop Translator Stator Spring	Number of modules	10		10 identical 3 phase units to make one single module
	Average real power output	25	kW	
	Rated force	44	kN	Average force over electrical cycle
	Overload force	81	kN	Average force over electrical cycle
	Amplitude of oscillation	1.375	M	(i.e.2.75m peak to peak)
	V _{phase} output	240	V _{rms}	Limit of DC voltage
	Current density	3.5	A/mm ²	RMS over full mechanical cycle
		7	A/mm ²	Peak value at peak of rated power
		12	A/mm ²	RMS at overload condition
		17	A/mm ²	Peak value at peak overload power
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