Question 2	(6 marks)
Muestion 7	10 111

A tram is powered by four identical electric motors. Each motor has a maximum power output of 30.0 kW. The motors are connected in parallel and powered by  $6.00 \times 10^2$  V DC from overhead power lines. When the motors are operating at maximum power output there is a back emf of  $5.20 \times 10^2$  V with an internal resistance of  $1.39 \Omega$ .

Calculate the current drawn by each motor w	hen operating at maximum po	wer output.
		(4 marks
	Answer	
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