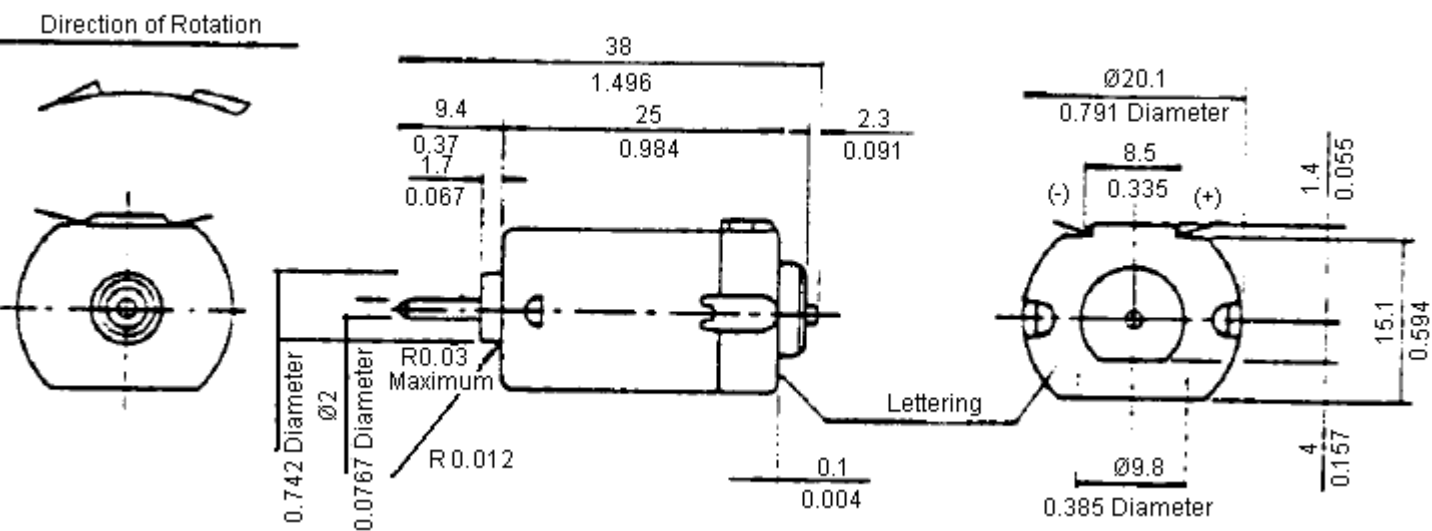


Miniature Motors



Model MM10



Dimensions : Millimetres (Inches)

Specification Table

Model	Operating Range	Approximately Weight
MM10	1.5 - 3 V	17 g

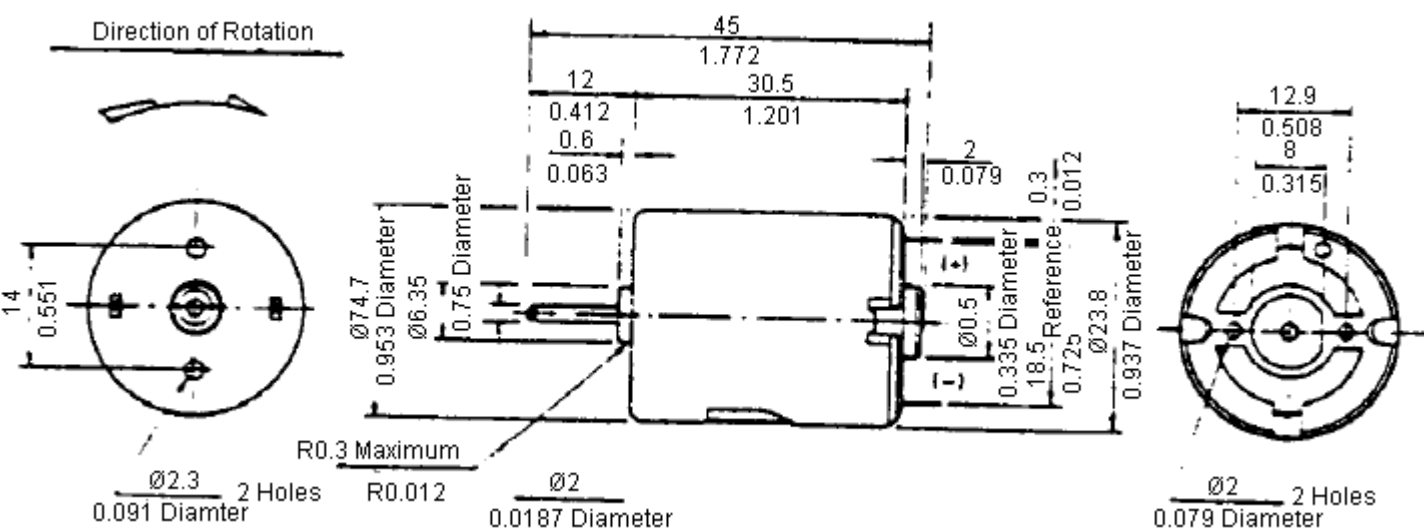
Nominal	No Load		At Maximum Efficiency					Stall Torque g-cm
Constant V	Speed rpm	Current A	Speed rpm	Current A	Torque g-cm	Output W	Efficiency %	
1.5 V	8,700	0.32	6,500	0.76	6.2	0.41	33.9	24
3 V	16,300	0.38	12,000	1.1	10	1.23	35.6	44



Miniature Motors



Model MM28



Dimensions : Millimetres (Inches)

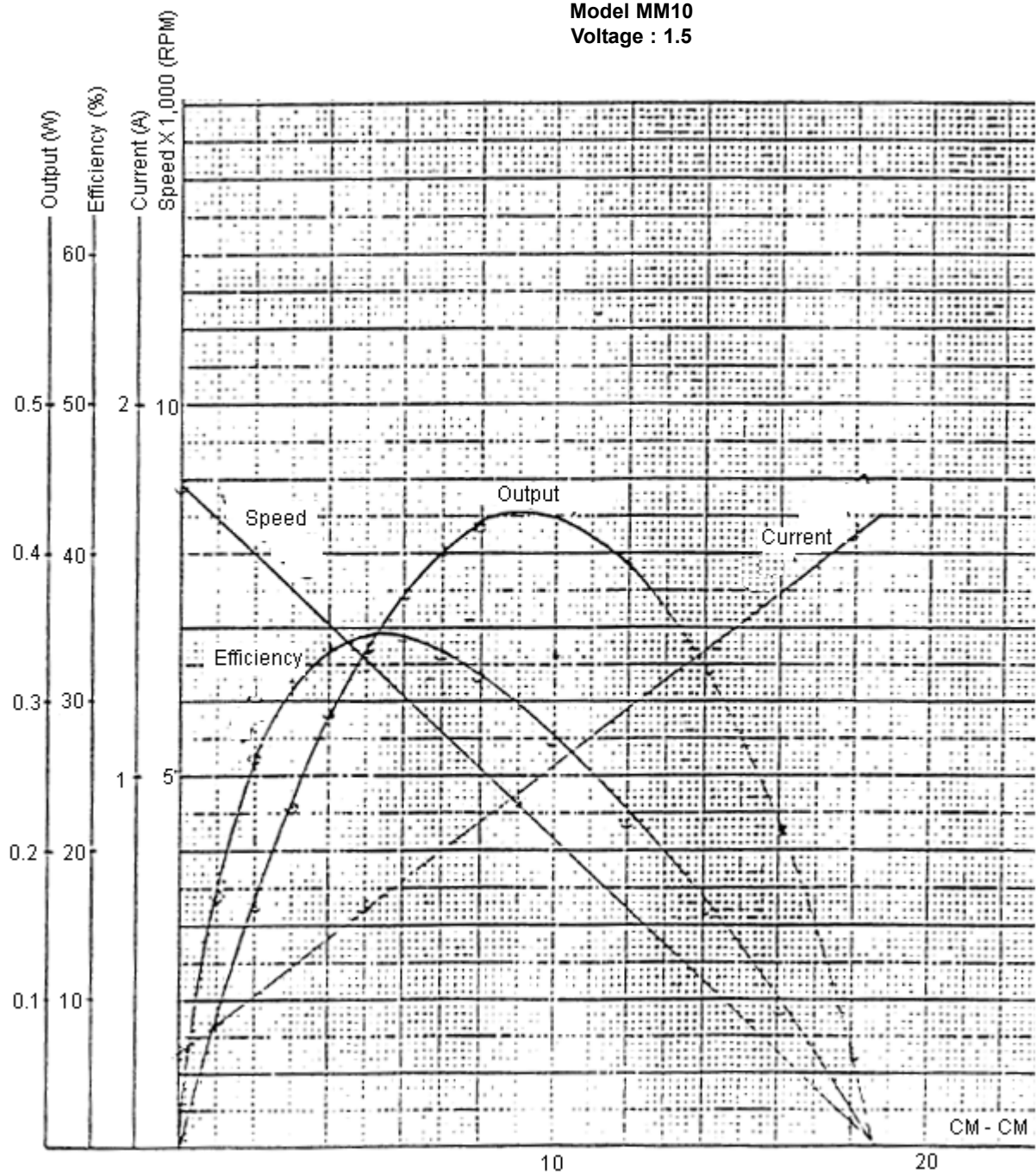
Specification Table

Model	Operating Range	Approximately Weight
MM28	3 - 6 V	42 g

Nominal Constant V	No Load		At Maximum Efficiency					Stall Torque g-cm
	Speed rpm	Current A	Speed rpm	Current A	Torque g-cm	Output W	Efficiency %	
3 V	9,600	0.22	8,000	0.99	20	1.64	55.2	112

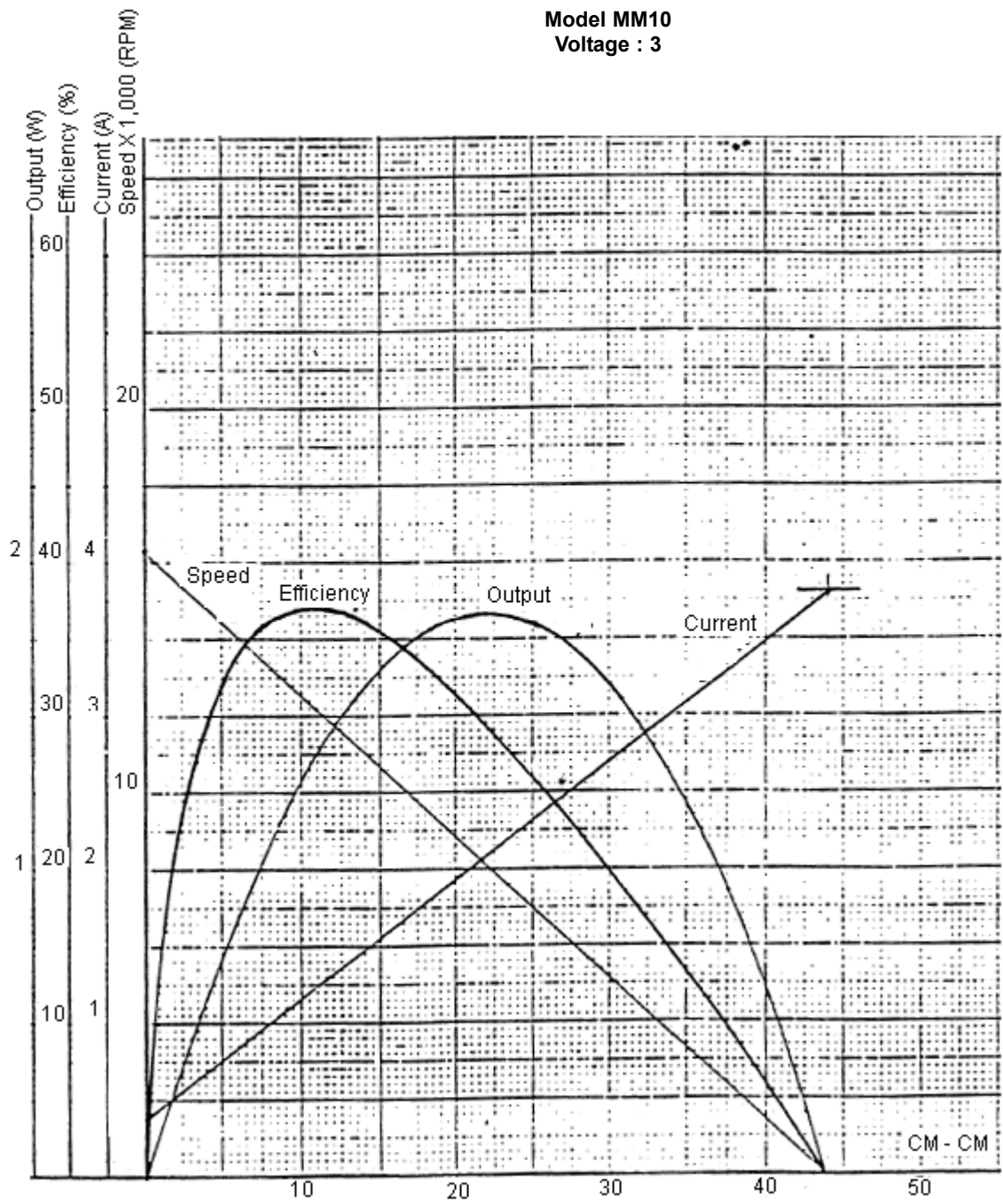


Model MM10
Voltage : 1.5



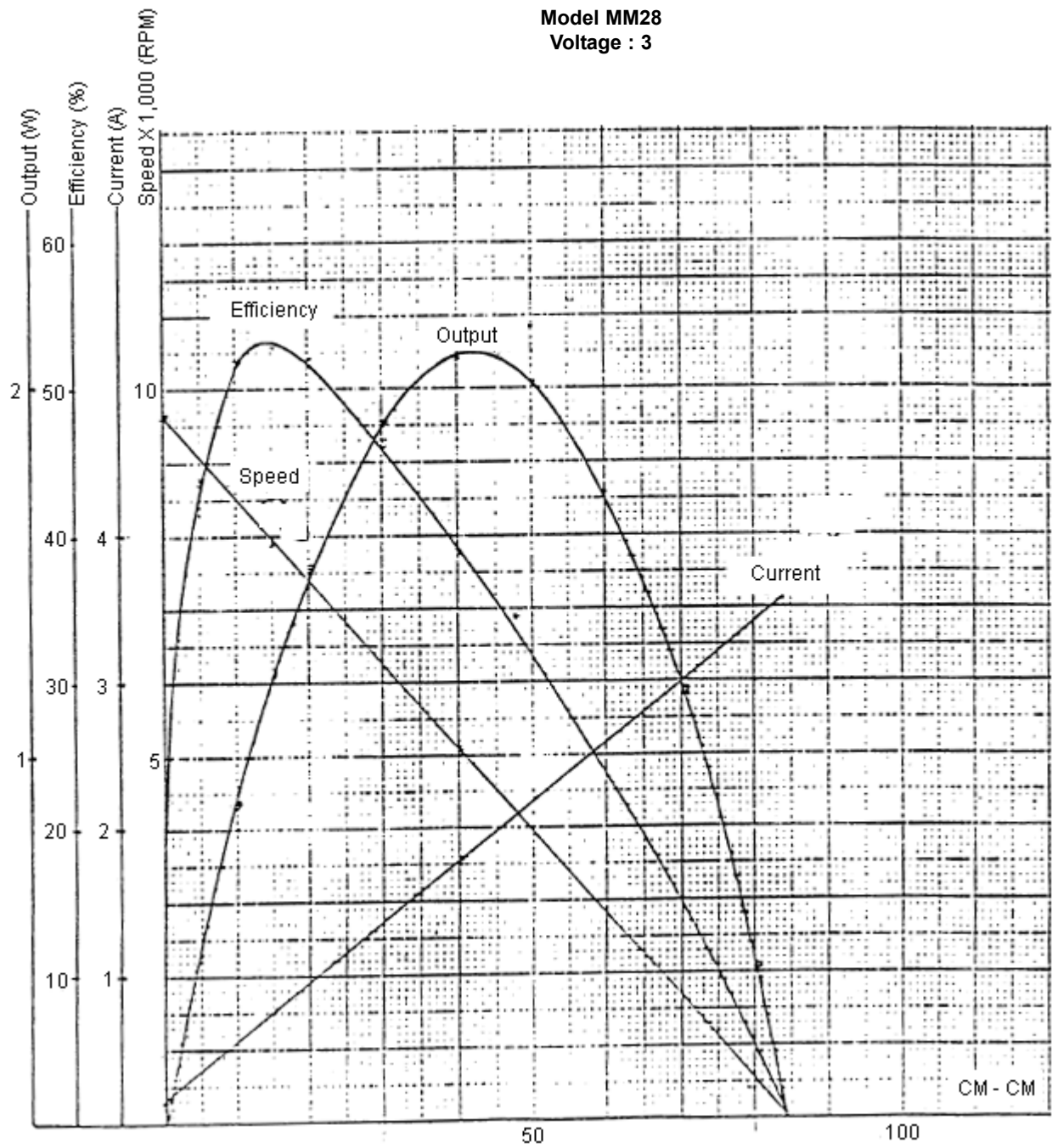
Description	Current A	Speed RPM	Torque CM - CM	Output W	Efficiency %
No Load	0.26	8,915	-	-	-
Maximum Efficiency	0.65	6,534	5	0.335	34.5
Maximum Output	0.96	4,629	9	0.427	89.8

Model MM10
Voltage : 3



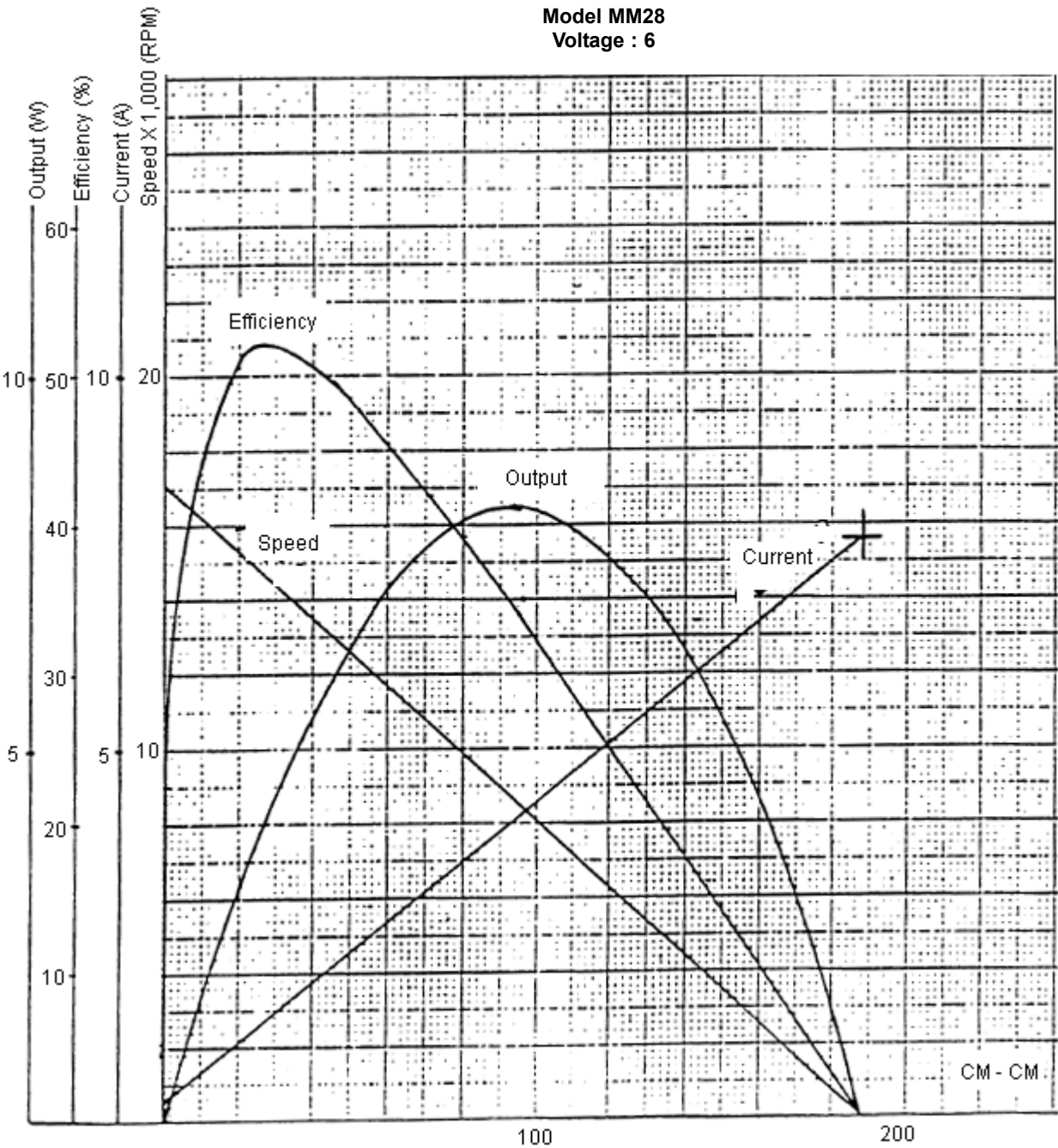
Description	Current A	Speed RPM	Torque CM - CM	Output W	Efficiency %
No Load	0.38	16,300	-	-	-
Maximum Efficiency	1.202	12,380	10.57	1.34	37.25
Maximum Output	2.09	8,150	22	1.84	29.33

Model MM28
Voltage : 3



Description	Current A	Speed RPM	Torque CM - CM	Output W	Efficiency %
No Load	0.15	9,638	-	-	-
Maximum Efficiency	0.76	7,926	15	1.22	53.3
Maximum Output	1.78	5,072	40	2.08	38.9

Model MM28
Voltage : 6



Description	Current A	Speed RPM	Torque CM - CM	Output W	Efficiency %
No Load	0.21	17,100	-	-	-
Maximum Efficiency	1.28	14,689	26.52	4	52
Maximum Output	4	8,550	94.06	8.25	34.3

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