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<u>MOTOR</u>	<u>AMP/ VOLTAGE</u>	<u>WIDTH/ LENGTH</u>	<u>NO LOAD SPEED</u>	<u>STALLED CURRENT</u>	<u>DCC FRIENDLY</u>
'O' GAUGE					
Canon 1833	3.5w 12v D/E	18 x 33	11000 rpm	2 amps	Yes
This motor is the most cost effective of all the motors and provides good slow speed running and enough power to pull all but the heaviest of Expresses.					
Mashima 1824	1.5w 12v D/E	18 x 24	9200 rpm	0.9 amps	Yes
Mashima 1833	2.2w 12v D/E	18 x 33	8500 rpm	1.6 amps	Yes
A budget motor with reasonable slow speed running which provides enough power for small locomotives up to 0-6-0 with the 1824 and small and mixed traffic locomotives with the 1833.					
Maxon 110064	2w 12v S/E	16 x 26	15500 rpm	0.873 amps	Yes
Maxon 249987	2.5w 12v S/E	19 x 29	9930 rpm	0.849 amps	Yes
These are coreless motors with excellent slow speed running – the 2w is ideal for small locomotives where space is limited and the 2.5w is suitable for small and mixed traffic locomotives.					
Maxon 320206 (leadwires)	6w 12v S/E	22 x 32	10200 rpm	2.02 amps	Yes
Maxon 110143	6w 6v S/E	22 x 32	9240 rpm	2.64 amps	Yes (In series)
Maxon 110160	6w 12v D/E	22 x 32	10200 rpm	2.02 amps	Yes
Maxon 110156	6w 6v D/E	22 x 32	9240 rpm	2.64 amps	Yes (In series)
A coreless motor providing up to 30% more power than the Canon, robust, smooth with excellent slow speed running ideally suited for the larger locomotives and steeply graded railways.					
Maxon 247623 (leadwires)	10w 12v S/E	24 x 32	11000rpm	5amps	Yes
A coreless rare earth magnet motor now supplied with 150mm leadwires, providing up to 60% more power than the standard 12v 6w Maxon with exceptional smooth, slow speed running and is ideally suited for the largest locomotives pulling heavy trains and well suited for large garden railways and steep gradients.					
Maxon Surplus	2.5w 6v S/E	21 x 28	9600 rpm	N/A	No
A 6v coreless motor ideal for small and mixed traffic battery powered locomotives.					
Pittman 6313	8w 12v S/E	19 x 39	7780 rpm	2.86 amps	Yes but see DCC info page
Although 30% more powerful than the Maxon motor, this robust motor is not so smooth running at low speeds but will give ideal performance for garden railways, heavy trains and steep gradients.					
Portescap 22N	3.8w 12v S/E	22 x 32	5900 rpm	0.445 amps	Yes
The Escap motor is the quietest of all the motors and offers excellent smooth slow speed running but perhaps has insufficient power for the larger tasks.					
<u>TRACTION MOTOR</u>					
Canon DN16	1.2w 12v S/E	16 X 20	16000 rpm	0.32 amps	Yes
<u>GAUGE '1' MOTORS</u>					
Maxon 247623 (leadwires)	10w 12v S/E	24 x 32	11000rpm	5amps	Yes but see DCC info page
Maxon 110937	11w 12v S/E	26 x 45	7630 rpm	4.8 amps	Yes but see DCC info page
Maxon 236661	20w 12v S/E	32 x 60	4610 rpm	5.43 amps	Yes but see DCC info page
Please note that the Pittman 6313, the Maxon 320206 and the Maxon 247623 (10w) can also be used for smaller Gauge '1' Locomotives					

w = wattage, v = voltage, rpm = revolutions per minute, S/E = single ended, D/E = double ended