

## MSV, MSE and MTS Barrier and Motor types

Barrier Type	MSV3L-100	MSN3L-100	MSE3L-100	MSV4L-100	MSV5L-100	MTS6L-100	MTS8L-100
Boom max	3.0m	3.5m	3.5m	4.5m	6.0m	8.0m	10.0m
Weight Kg/m	1.1	1.1	1.1	1.1	1.1	2.4	2.4
Speed s	1.8	4	3	4	8	6	9
Voltage v	230	230	230	230	230	230	230
Frequency Hz	50-60	50-60	50-60	50-60	50-60	50-60	50-60
Power W	60	42	45	65	65	280	280
Torque (Nm) (with springs)	60	80	80	170	250	850	1300
<b>Drive Unit</b>	<b>SAW4L500</b>	<b>SAW8L100</b>	<b>SAW6L100</b>	<b>SAW8L500</b>	<b>SAW8L800</b>	<b>N/A</b>	<b>N/A</b>
<b>Motor Type</b>	<b>MC43S-360</b>	<b>MC83S-170</b>	<b>MC63S-170</b>	<b>MC83S-230</b>	<b>MC83S-310</b>	<b>SAM210-21</b>	<b>SAM210-32</b>
No Poles	4	8	6	8	8	12	12
Nominal rpm	1500	750	1000	750	750	500	500
Gear ratio 1:	100	100	100	100	200	100	150
time (180°) s	2	4	3	4	8	6	9
Torque (Nm)	20	20	16	32	75	100	150
Drive Cap µF	4	3	1	6	6	12	12
Hold Cap µF	3	-	-	3	3	4	4

In 1998 / 99 the old MSV, MSN & MSE barriers were replaced with the MIB range of barriers with a new motor as an integral part of the cast drive unit. Production of the MC motor continued for export markets but was reclassified as MCxxC-xxx with new housing and external capacitors. The MC83S-310 was not produced in the new style and is only available as a service replacement unit for spares. The MC83S-170 and MC63S-170 were replaced by the MC63C-170

Current motor types	MC43C-360		MC63C-170	MC83C-230		SAM210-21	SAM210-32
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From January 2002 production quantities of the MC & SAM motor will no longer be available from stock and customers should place orders for their expected annual requirements with a delivery schedule. Longer lead times are expected for the SAM motors since production of door and gate drives has ceased. EMS will hold a small stock of each motor type for spares.

**Please note:** all motors except MC63C-170 require a control unit to reduce the holding torque in the end positions.