



7 Traveling Motors

7.1 Motor Data, MF06 Two-speed - Class I, Division 2

Duty type	Motor code	MF06LA104		MF06LA104		MF06LA104	
	Speed control	2-speed		2-speed		2-speed	
	Voltage	400 V		460 V		575 V	
	Frequency	50 Hz		60 Hz		60 Hz	
	Brake type	DC		DC		DC	
		fast	slow	fast	slow	fast	slow
	Synchronous speed RPM	3000	750	3600	900	3600	900
	Brake torque Nm	2	2	2	2	2	2
	Starting torque Nm	3.3	2.5	3.3	2.4	3.3	2.4
	Electric braking torque Nm		8/3.5		8/3.5		8/3.5
	Starting current A	5.0	1.4	5.3	1.5	4.24	1.2
	Maximum torque Nm	3.6	2.7	3.5	2.6	3.5	2.6
	Speed at max. torque RPM	1620	380	2220	530	2220	530
	80% of max. torque Nm	2.8	2.1	2.7	2.0	2.7	2.0
	Speed at 80% torque RPM	2100	530	2800	680	2800	680
	Current at 80% torque A	2.3	1.3	2.2	1.3	2.2	1.3
	Inertia kgm ²	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
	Inertia with flywheel kgm ²						
	Power factor, starting	0.92	0.93	0.91	0.92	0.91	0.92
	Weight with fan lb						
	Weight lb	17.2		17.2		17.2	
	No-load current A	1.1	1.2	1.1	1.2	0.88	0.96
	Iron losses W						
	Stator resistance at 20 °C Ω	50	175	50	175	50	175
S3-20%	Speed RPM	2760	660	3340	810	3340	810
	Power hp	0.61	0.14	0.75	0.16	0.75	0.16
	Current A	1.3	1.2	1.3	1.2	1.04	0.96
	Starting burden kgm ² /h	3		2.1		2.1	
	Power factor	0.83	0.67	0.82	0.80	0.82	0.80
	Efficiency	0.67	0.20	0.67	0.20	0.67	0.20
S3-40%	Speed RPM	2760	660	3340	810	3340	810
	Power hp	0.61	0.14	0.75	0.16	0.75	0.16
	Current A	1.3	1.2	1.3	1.2	1.04	0.96
	Starting burden kgm ² /h	2.5		1.9		1.9	
	Power factor	0.83	0.67	0.82	0.80	0.82	0.80
	Efficiency	0.67	0.20	0.67	0.20	0.67	0.20
S3-60%	Speed RPM						
	Power hp						
	Current A						
	Starting burden kgm ² /h						
	Power factor						
	Efficiency						
S3-100%	Speed RPM						
	Power hp						
	Current A						
	Starting burden kgm ² /h						
	Power factor						
	Efficiency						



7.2 Motor Data, MF07 Two-speed - Class I, Division 2

Duty type	Motor code	MF07X-104		MF07X-104		MF07X-104		
		fast	slow	fast	slow	fast	slow	
	Speed control	2-speed		2-speed		2-speed		
	Voltage	400 V		460 V		575 V		
	Frequency	50 Hz		60 Hz		60 Hz		
	Brake type	DC		DC		DC		
	Synchronous speed	RPM	3000	750	3600	900	3600	900
	Brake torque	Nm	8	8	8	8	8	8
	Starting torque	Nm	5.8	5.2	5.6	4.8	5.6	4.8
	Electric braking torque	Nm		10/9		10/9		10/9
	Starting current	A	8.0	2.4	8.0	2.3	6.4	2.3
	Maximum torque	Nm	5.9	5.2	5.7	4.8	5.7	4.8
	Speed at max. torque	RPM	1700	0	2040	0	2040	0
	80% of max. torque	Nm	4.6	4.1	4.5	3.8	4.5	3.8
	Speed at 80% torque	RPM	2400	590	2880	710	2880	710
	Current at 80% torque	A	3.9	2.3	3.6	2.3	2.88	2.3
	Inertia	kgm ²	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012
	Inertia with flywheel	kgm ²	0.0036	0.0036	0.0036	0.0036	0.0036	0.0036
	Power factor, starting		0.90	0.80	0.89	0.78	0.89	0.78
	Weight with fan	lb						
	Weight	lb	29.8		29.8		29.8	
	No-load current	A	2.2	1.7	1.9	1.7	1.52	1.36
Iron losses	W							
Stator resistance at 20 °C	Ω	23	75	23	75	23	75	
S3-20%	Speed	RPM	2720	590	3370	750	3370	750
	Power	hp	1.02	0.24	1.22	0.27	1.22	0.27
	Current	A	2.7	1.9	2.7	1.9	2.16	1.52
	Starting burden	kgm ² /h	7		4.9		4.9	
	Power factor		0.80	0.67	0.79	0.64	0.79	0.64
	Efficiency		0.57	0.24	0.62	0.26	0.62	0.26
S3-40%	Speed	RPM	2720	590	3370	750	3370	750
	Power	hp	1.02	0.24	1.22	0.27	1.22	0.27
	Current	A	2.7	1.9	2.7	1.9	2.16	1.52
	Starting burden	kgm ² /h	6.5		4.5		4.5	
	Power factor		0.80	0.67	0.79	0.64	0.79	0.64
	Efficiency		0.57	0.24	0.62	0.26	0.62	0.26
S3-60%	Speed	RPM	2720	590	3370	750	3370	750
	Power	hp	1.02	0.24	1.22	0.27	1.22	0.27
	Current	A	2.7	1.9	2.7	1.9	2.16	1.52
	Starting burden	kgm ² /h	5.8		4		4	
	Power factor		0.80	0.67	0.79	0.64	0.79	0.64
	Efficiency		0.57	0.24	0.62	0.26	0.62	0.26
S3-100%	Speed	RPM						
	Power	hp						
	Current	A						
	Starting burden	kgm ² /h						
	Power factor							
	Efficiency							