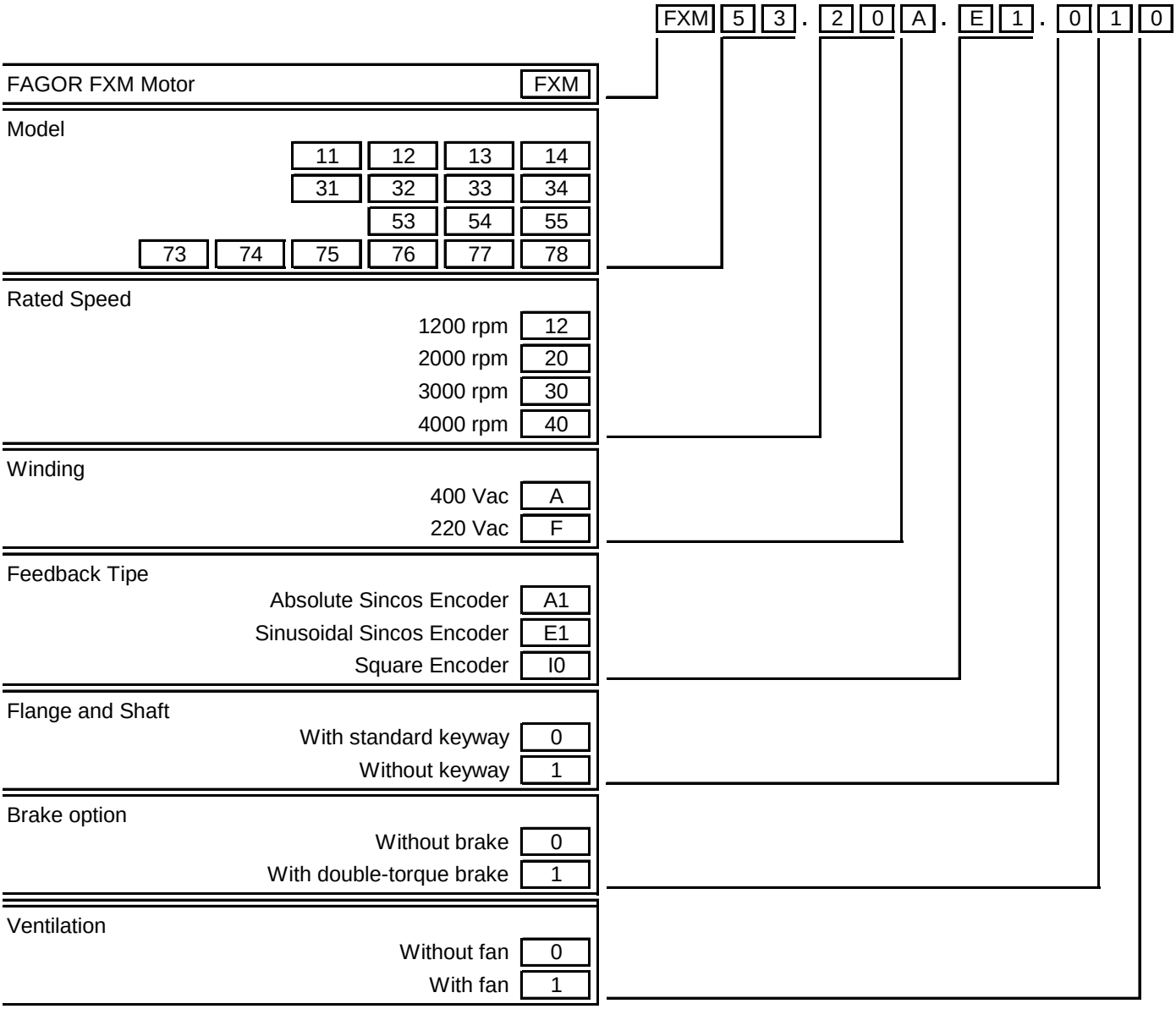
AC SERVO MOTOR -FXM-

FAGOR

ORDERING HANDBOOK

Ref. 0802

Denominations



Models and Characteristics

FXM Series. Non-ventilated with A winding (400 V AC)

Motor model (400 V AC)	n_N rpm	M_O Nm	M_N Nm	I_O A_{rms}	P_{cal} kW	Socket for power connector	**Power cable** Nr of wires x mm^2	**Power cable** with brake option
FXM 53.12A.xx.xx0.1	1200	11.9	11.1	2.8	1.5	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 54.12A.xx.xx0.1	1200	14.8	13.7	3.5	1.9	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 55.12A.xx.xx0.1	1200	17.3	15.7	2.8	1.5	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 73.12A.xx.xx0.1	1200	20.8	19.2	4.9	2.6	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 74.12A.xx.xx0.1	1200	27.3	24.9	6.6	3.4	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 75.12A.xx.xx0.1	1200	33.6	30.2	8.0	4.2	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 76.12A.xx.xx0.1	1200	39.7	35.3	9.4	5.0	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 77.12A.xx.xx0.1	1200	45.6	40.0	11.0	5.7	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 78.12A.xx.xx0.1	1200	51.1	44.3	12.6	6.4	MC 23	MPC - 4 x 2.5	MPC - 4 x 2.5 + (2x1)
FXM 11.20A.xx.xx0.1	2000	1.2	1.18	0.45	0.3	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 12.20A.xx.xx0.1	2000	2.3	2.25	0.86	0.5	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 13.20A.xx.xx0.1	2000	3.3	3.22	1.23	0.7	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 14.20A.xx.xx0.1	2000	4.1	3.98	1.53	0.9	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 31.20A.xx.xx0.1	2000	2.6	2.56	0.97	0.5	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 32.20A.xx.xx0.1	2000	5.1	5.00	1.89	1.1	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 33.20A.xx.xx0.1	2000	7.3	7.12	2.70	1.5	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 34.20A.xx.xx0.1	2000	9.3	9.02	3.40	1.9	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 53.20A.xx.xx0.1	2000	11.9	10.5	4.70	2.5	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 54.20A.xx.xx0.1	2000	14.8	12.8	5.90	3.1	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 55.20A.xx.xx0.1	2000	17.3	14.7	6.70	3.6	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 73.20A.xx.xx0.1	2000	20.8	17.7	8.20	4.4	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 74.20A.xx.xx0.1	2000	27.3	22.8	11.10	5.7	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 75.20A.xx.xx0.1	2000	33.6	27.5	13.30	7.0	MC 23	MPC - 4 x 2.5	MPC - 4 x 2.5 + (2x1)
FXM 76.20A.xx.xx0.1	2000	39.7	31.9	15.70	8.3	MC 46	MPC - 4 x 2.5	MPC - 4 x 2.5 + (2x1)
FXM 77.20A.xx.xx0.1	2000	45.6	36.0	17.80	9.6	MC 46	MPC - 4 x 4	MPC - 4 x 4 + (2x1)
FXM 78.20A.xx.xx0.1	2000	51.1	39.6	20.70	10.7	MC 46	MPC - 4 x 4	MPC - 4 x 4 + (2x1)
FXM 11.30A.xx.xx0.1	3000	1.2	1.15	0.67	0.4	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 12.30A.xx.xx0.1	3000	2.3	2.18	1.29	0.7	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 13.30A.xx.xx0.1	3000	3.3	3.10	1.85	1.0	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 14.30A.xx.xx0.1	3000	4.1	3.81	2.30	1.3	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 31.30A.xx.xx0.1	3000	2.6	2.50	1.45	0.8	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 32.30A.xx.xx0.1	3000	5.1	4.79	2.80	1.6	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 33.30A.xx.xx0.1	3000	7.3	6.72	4.10	2.3	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 34.30A.xx.xx0.1	3000	9.3	8.37	5.10	2.9	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 53.30A.xx.xx0.1	3000	11.9	9.60	7.10	3.7	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 54.30A.xx.xx0.1	3000	14.8	11.60	8.70	4.7	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 55.30A.xx.xx0.1	3000	17.3	13.10	10.30	5.4	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 73.30A.xx.xx0.1	3000	20.8	15.20	12.30	6.5	MC 23	MPC - 4 x 2.5	MPC - 4 x 2.5 + (2x1)
FXM 74.30A.xx.xx0.1	3000	27.3	19.40	16.20	8.6	MC 23	MPC - 4 x 2.5	MPC - 4 x 2.5 + (2x1)
FXM 75.30A.xx.xx0.1	3000	33.6	23.20	19.90	10.6	MC 23	MPC - 4 x 4	MPC - 4 x 4 + (2x1)
FXM 76.30A.xx.xx0.1	3000	39.7	26.60	23.60	12.5	MC 23	MPC - 4 x 6	MPC - 4 x 6 + (2x1)
FXM 77.30A.xx.xx0.1	3000	45.6	29.60	29.00	14.3	MC 46	MPC - 4 x 6	MPC - 4 x 6 + (2x1)
FXM 78.30A.xx.xx0.1	3000	51.1	32.20	28.40	16.1	MC 46	MPC - 4 x 6	MPC - 4 x 6 + (2x1)
FXM 11.40A.xx.xx0.1	4000	1.2	1.11	0.90	0.5	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 12.40A.xx.xx0.1	4000	2.3	2.09	1.72	1.0	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 13.40A.xx.xx0.1	4000	3.3	2.95	2.50	1.4	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 14.40A.xx.xx0.1	4000	4.1	3.61	3.10	1.7	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 31.40A.xx.xx0.1	4000	2.6	2.38	1.92	1.1	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 32.40A.xx.xx0.1	4000	5.1	4.49	3.80	2.1	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 33.40A.xx.xx0.1	4000	7.3	6.17	5.50	3.1	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 34.40A.xx.xx0.1	4000	9.3	7.53	6.90	3.9	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 53.40A.xx.xx0.1	4000	11.9	8.70	9.30	5.0	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 54.40A.xx.xx0.1	4000	14.8	10.20	11.80	6.2	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 55.40A.xx.xx0.1	4000	17.3	11.20	14.10	7.3	MC 23	MPC - 4 x 2.5	MPC - 4 x 2.5 + (2x1)
FXM 73.40A.xx.xx0.1	4000	20.8	11.90	16.50	8.7	MC 23	MPC - 4 x 2.5	MPC - 4 x 2.5 + (2x1)
FXM 74.40A.xx.xx0.1	4000	27.3	15.00	22.10	11.4	MC 23	MPC - 4 x 4	MPC - 4 x 4 + (2x1)
FXM 75.40A.xx.xx0.1	4000	33.6	17.60	26.60	14.1	MC 23	MPC - 4 x 6	MPC - 4 x 6 + (2x1)
FXM 76.40A.xx.xx0.1	4000	39.7	19.80	32.10	16.6	MC 46	MPC - 4 x 10	MPC - 4 x 10 + (2x1)
FXM 77.40A.xx.xx0.1	4000	45.6	21.70	36.60	19.1	MC 46	MPC - 4 x 10	MPC - 4 x 10 + (2x1)
FXM 78.40A.xx.xx0.1	4000	51.1	23.00	42.70	21.4	MC 46	MPC - 4 x 16	MPC - 4 x 16 + (2x1)

FXM Series. Ventilated with A winding (400 V AC)

Motor model (400 V AC)	n_N rpm	M_O Nm	M_N Nm	I_O A_{rms}	P_{cal} kW	Socket for power connector	**Power cable** Nr of wires x mm^2	**Power cable** with brake option
FXM 53.12A.xx.xx1.1	1200	17.8	17.0	4.2	2.2	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 54.12A.xx.xx1.1	1200	22.2	21.0	5.3	2.8	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 55.12A.xx.xx1.1	1200	25.9	24.5	6.1	3.3	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 73.12A.xx.xx1.1	1200	31.2	29.5	7.4	3.9	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 74.12A.xx.xx1.1	1200	40.9	38.5	9.8	5.1	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 75.12A.xx.xx1.1	1200	50.4	47.0	12.0	6.3	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 76.12A.xx.xx1.1	1200	59.5	55.0	14.1	7.5	MC 23	MPC - 4 x 2.5	MPC - 4 x 2.5 + (2x1)
FXM 77.12A.xx.xx1.1	1200	68.4	62.8	16.6	8.6	MC 23	MPC - 4 x 2.5	MPC - 4 x 2.5 + (2x1)
FXM 78.12A.xx.xx1.1	1200	76.6	69.8	19.0	9.6	MC 23	MPC - 4 x 4	MPC - 4 x 4 + (2x1)
FXM 53.20A.xx.xx1.1	2000	17.8	16.4	7.0	3.7	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 54.20A.xx.xx1.1	2000	22.2	20.2	8.9	4.7	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 55.20A.xx.xx1.1	2000	25.9	23.2	10.1	5.4	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 73.20A.xx.xx1.1	2000	31.2	28.1	12.3	6.5	MC 23	MPC - 4 x 2.5	MPC - 4 x 2.5 + (2x1)
FXM 74.20A.xx.xx1.1	2000	40.9	36.4	16.5	8.6	MC 23	MPC - 4 x 2.5	MPC - 4 x 2.5 + (2x1)
FXM 75.20A.xx.xx1.1	2000	50.4	44.3	20.0	10.6	MC 23	MPC - 4 x 4	MPC - 4 x 4 + (2x1)
FXM 76.20A.xx.xx1.1	2000	59.5	51.8	23.5	12.5	MC 23	MPC - 4 x 6	MPC - 4 x 6 + (2x1)
FXM 77.20A.xx.xx1.1	2000	68.4	58.8	26.8	14.3	MC 23	MPC - 4 x 6	MPC - 4 x 6 + (2x1)
FXM 78.20A.xx.xx1.1	2000	76.6	65.1	31.0	16.0	MC 23	MPC - 4 x 10	MPC - 4 x 10 + (2x1)
FXM 53.30A.xx.xx1.1	3000	17.8	15.5	10.6	5.6	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 54.30A.xx.xx1.1	3000	22.2	19.0	13.1	7.0	MC 23	MPC - 4 x 2.5	MPC - 4 x 2.5 + (2x1)
FXM 55.30A.xx.xx1.1	3000	25.9	21.8	15.4	8.1	MC 23	MPC - 4 x 2.5	MPC - 4 x 2.5 + (2x1)
FXM 73.30A.xx.xx1.1	3000	31.2	25.6	18.5	9.8	MC 23	MPC - 4 x 4	MPC - 4 x 4 + (2x1)
FXM 74.30A.xx.xx1.1	3000	40.9	33.0	24.3	12.8	MC 46	MPC - 4 x 6	MPC - 4 x 6 + (2x1)
FXM 75.30A.xx.xx1.11	3000	50.4	40.0	29.9	15.8	MC 46	MPC - 4 x 10	MPC - 4 x 10 + (2x1)
FXM 76.30A.xx.xx1.1	3000	59.5	46.4	35.3	18.7	MC 46	MPC - 4 x 10	MPC - 4 x 10 + (2x1)
FXM 77.30A.xx.xx1.1	3000	68.4	52.4	43.5	21.5	MC 46	MPC - 4 x 16	MPC - 4 x 16 + (2x1)
FXM 78.30A.xx.xx1.1	3000	76.6	57.7	42.6	24.1	MC 46	MPC - 4 x 16	MPC - 4 x 16 + (2x1)
FXM 53.40A.xx.xx1.1	4000	17.7	14.6	14.0	7.5	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 54.40A.xx.xx1.1	4000	22.2	17.6	17.7	9.3	MC 23	MPC - 4 x 2.5	MPC - 4 x 2.5 + (2x1)
FXM 55.40A.xx.xx1.1	4000	25.9	19.9	21.1	10.8	MC 23	MPC - 4 x 4	MPC - 4 x 4 + (2x1)
FXM 73.40A.xx.xx1.1	4000	31.2	22.4	24.7	13.1	MC 46	MPC - 4 x 6	MPC - 4 x 6 + (2x1)
FXM 74.40A.xx.xx1.1	4000	40.9	38.6	33.1	17.1	MC 46	MPC - 4 x 10	MPC - 4 x 10 + (2x1)
FXM 75.40A.xx.xx1.1	4000	50.4	34.4	39.9	21.1	MC 46	MPC - 4 x 10	MPC - 4 x 10 + (2x1)
FXM 76.40A.xx.xx1.1	4000	59.5	39.7	48.2	24.9	MC 80	MPC - 4 x 16	MPC - 4 x 16 + (2x1)
FXM 77.40A.xx.xx1.1	4000	68.4	44.5	55.0	28.6	MC 80	MPC - 4 x 25	MPC - 4 x 25 + (2x1)
FXM 78.40A.xx.xx1.1	4000	76.6	48.5	63.9	32.1	MC 80	MPC - 4 x 25	MPC - 4 x 25 + (2x1)

FXM Series. Non- ventilated with F winding (220 V AC)

Motor model (220 V AC)	n_N rpm	M_O Nm	M_N Nm	I_O A_{rms}	P_{cal} kW	Socket for power connector	**Power cable** Nr of wires x mm^2	**Power cable** with brake option
FXM 55.12F.xx.xx0	1200	17.3	15.8	9.1	2.2	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 7312F.xx.xx0	1200	20.8	18.9	10.7	2.6	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 74.12F.xx.xx0	1200	27.3	24.9	13.5	3.4	MC 23	MPC - 4 x 2.5	MPC - 4 x 2.5 + (2x1)
FXM 75.12F.xx.xx0	1200	29.5	29.5	15.0	4.2	MC 23	MPC - 4 x 2.5	MPC - 4 x 2.5 + (2x1)
FXM 14.20F.xx.xx0	2000	4.1	4.0	3.5	0.9	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 31.20F.xx.xx0	2000	2.6	2.5	2.2	0.5	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 32.20F.xx.xx0	2000	5.1	5.0	4.3	1.1	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 33.20F.xx.xx0	2000	7.3	7.0	6.3	1.5	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 34.20F.xx.xx0	2000	9.3	9.0	7.6	1.9	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 53.20F.xx.xx0	2000	11.9	10.5	9.9	2.5	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 54.20F.xx.xx0	2000	14.8	12.8	12.7	3.1	MC 23	MPC - 4 x 2.5	MPC - 4 x 2.5 + (2x1)
FXM 55.20F.xx.xx0	2000	17.3	14.7	15.0	3.6	MC 23	MPC - 4 x 2.5	MPC - 4 x 2.5 + (2x1)
FXM 53.30F.xx.xx0	3000	11.9	10.0	14.8	3.7	MC 23	MPC - 4 x 2.5	MPC - 4 x 2.5 + (2x1)
FXM 54.30F.xx.xx0	3000	14.8	11.6	18.4	4.7	MC 23	MPC - 4 x 4	MPC - 4 x 4 + (2x1)
FXM 11.40F.xx.xx0	4000	1.2	1.1	2.0	0.5	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 12.40F.xx.xx0	4000	2.3	2.1	3.9	1.0	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 13.40Fxx.xx0	4000	3.3	3.0	5.6	1.4	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 14.40F.xx.xx0	4000	4.1	3.5	6.9	1.7	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 31.40F.xx.xx0	4000	2.6	2.4	4.4	1.1	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 32.40F.xx.xx0	4000	5.1	4.4	8.4	2.1	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 33.40F.xx.xx0	4000	7.3	6.1	12.0	3.1	MC 23	MPC - 4 x 1.5	MPC - 4 x 1.5 + (2x1)
FXM 34.40F.xx.xx0	4000	9.3	7.6	15.0	3.9	MC 23	MPC - 4 x 2.5	MPC - 4 x 2.5 + (2x1)
FXM 53.40F.xx.xx0	4000	11.9	8.7	19.7	5.0	MC 23	MPC - 4 x 4	MPC - 4 x 4 + (2x1)

Recommended Motor - Drive Combination

The drive selecting procedure always depends on the application.

- The rated current of the drive must be higher than the rated current of the motor.
- If the application is going to demand from the motor a rated duty cycle or lower than 100%, it will suffice to have the drive provide the rated torque of the motor.
- Usually, in particular moments and during very short periods of time, a higher torque than the rated value is required (for example during a rapid approach in G00). In these cases, a drive must be selected whose peak torque is between 2 and 3 times the rated torque motor.
- The peak torque that the drive can provide must never exceed the peak torque of the motor. When this occurs, the peak torque of the drive must be limited.

The peak torque (Mp) to be provided by the drive is = Kt of the motor x peak current (Ip) of the drive, where Kt of the motor = Peak torque (Mp) of the motor / Peak current (Ip) of the motor

FXM Series. Non-ventilated (400 V AC)

	AXD								ACSD / MCS		
	1.08	1.15	1.25	1.35	2.50	2.75	3.100	3.150	04H	08H	16H
I nom. Amp.	4	7,5	12,5	17,5	23,5	31,5	50	62	2	4	8
I peak (0.5 sec.) Amp.	8	15	25	35	47	63	100	124	4	8	16

Motor model Non-ventilated (400 Vac)	Stal torque [Nm]	Peak torque [Nm]	Rated speed [RPM]	Stall current [Arms]	Peak current [Arms]	Drive Mp / Motor Mo										
						AXD								ACSD / MCS		
						1.08	1.15	1.25	1.35	2.50	2.75	3.100	3.100	04H	08H	16H
FXM 53.12 A	11,9	59	1.200	2,80	14,0	2,83									2,83	
FXM 54.12 A	14,8	74	1.200	3,50	17,6	2,27	4,26								2,27	4,55
FXM 55.12 A	17,3	86	1.200	2,80	20,0		3,73									3,98
FXM 73.12 A	20,8	104	1.200	4,90	25,0		3,00	5,00								3,20
FXM 74.12 A	27,3	135	1.200	6,60	32,0		2,32	3,86								2,47
FXM 75.12 A	33,6	165	1.200	8,00	39,0			3,15	4,41							2,01
FXM 76.12 A	39,7	195	1.200	9,40	46,0			2,67	3,74							
FXM 77.12 A	45,6	225	1.200	11,00	55,0			2,24	3,14	4,22						
FXM 78.12 A	51,1	255	1.200	12,60	63,0				2,77	3,72	4,99					
FXM 11.20 A	1,2	6	2.000	0,45	2,2	Limitar										
FXM 12.20 A	2,3	11	2.000	0,86	4,1	Limitar								4,67		
FXM 13.20 A	3,3	16	2.000	1,23	6,0	Limitar								3,23		
FXM 14.20 A	4,1	20	2.000	1,53	7,5	Limitar								2,60		
FXM 31.20 A	2,6	13	2.000	0,97	4,8	Limitar								4,17		
FXM 32.20 A	5,1	25	2.000	1,89	9,2	4,26								2,13	4,26	
FXM 33.20 A	7,3	36	2.000	2,70	13,4	2,94									2,94	
FXM 34.20 A	9,3	46	2.000	3,40	17	2,33	4,36								2,33	4,66
FXM 53.20 A	11,9	59	2.000	4,70	23,0		3,23									3,45
FXM 54.20 A	14,8	74	2.000	5,90	30,0		2,50	4,17								2,67
FXM 55.20 A	17,3	86	2.000	6,70	33,0		2,26	3,77								2,41
FXM 73.20 A	20,8	104	2.000	8,20	41,0			3,05	4,27							
FXM 74.20 A	27,3	135	2.000	11,10	55,0			2,25	3,15	4,23						
FXM 75.20 A	33,6	165	2.000	13,30	65,0				2,64	3,55	4,76					
FXM 76.20 A	39,7	195	2.000	15,70	77,0				2,23	3,00	4,02					
FXM 77.20 A	45,6	225	2.000	17,80	88,0					2,64	3,53					
FXM 78.20 A	51,1	255	2.000	20,70	103,0					2,28	3,05	4,84				
FXM 11.30 A	1,2	6	3.000	0,67	3,4	Limitar										
FXM 12.30 A	2,3	11	3.000	1,29	6,2	Limitar								3,09		
FXM 13.30 A	3,3	16	3.000	1,85	9,0	4,31								2,15	4,31	
FXM 14.30 A	4,1	20	3.000	2,30	11,2	3,48									3,48	
FXM 31.30 A	2,6	13	3.000	1,45	7,3	Limitar								2,74		
FXM 32.30 A	5,1	25	3.000	2,80	14,0	2,80									2,80	
FXM 33.30 A	7,3	36	3.000	4,10	20,0		3,70									3,95
FXM 34.30 A	9,3	46	3.000	5,10	25		2,97	4,95								3,17
FXM 53.30 A	11,9	59	3.000	7,10	35,0		2,12	3,54	4,96							2,27
FXM 54.30 A	14,8	74	3.000	8,70	44,0			2,84	3,98							
FXM 55.30 A	17,3	86	3.000	10,30	51,0			2,44	3,41	4,58						
FXM 73.30 A	20,8	104	3.000	12,30	62,0			2,02	2,82	3,79						
FXM 74.30 A	27,3	135	3.000	16,20	80,0				2,16	2,91	3,89					
FXM 75.30 A	33,6	165	3.000	19,90	98,0					2,36	3,16					
FXM 76.30 A	39,7	195	3.000	23,60	116,0						2,67	4,23				
FXM 77.30 A	45,6	225	3.000	29,00	143,0						2,17	3,45	4,28			
FXM 78.30 A	51,1	255	3.000	28,40	142,0						2,21	3,51	4,36			

	AXD								ACSD / MCS		
	1.08	1.15	1.25	1.35	2.50	2.75	3.100	3.150	04H	08H	16H
I nom. Amp.	4	7,5	12,5	17,5	23,5	31,5	50	62	2	4	8
I peak (0.5 sec.) Amp.	8	15	25	35	47	63	100	124	4	8	16

Motor model Non-ventilated (400 Vac)	Stal torque [Nm]	Peak torque [Nm]	Rated speed [RPM]	Stall current [Arms]	Peak current [Arms]	Drive Mp / Motor Mo										
						AXD								ACSD / MCS		
						1.08	1.15	1.25	1.35	2.50	2.75	3.100	3.150	04H	08H	16H
FXM 11.40 A	1,2	6	4.000	0,90	4,5	Limitar								4,44		
FXM 12.40 A	2,3	11	4.000	1,72	8,2	4,67								2,33	4,67	
FXM 13.40 A	3,3	16	4.000	2,50	12,0	3,23									3,23	
FXM 14.40 A	4,1	20	4.000	3,10	15,0	2,60	4,88								2,60	
FXM 31.40 A	2,6	13	4.000	1,92	9,6	4,17								2,08	4,17	
FXM 32.40 A	5,1	25	4.000	3,80	18,5	2,12	3,97								2,12	4,24
FXM 33.40 A	7,3	36	4.000	5,50	27,0		2,74	4,57								2,92
FXM 34.40 A	9,3	46	4.000	6,90	34		2,18	3,64								2,33
FXM 53.40 A	11,9	59	4.000	9,30	46,0			2,69	3,77							
FXM 54.40 A	14,8	74	4.000	11,80	59,0			2,12	2,97	3,98						
FXM 55.40 A	17,3	86	4.000	14,10	70,0				2,49	3,34	4,47					
FXM 73.40 A	20,8	104	4.000	16,50	82,0				2,13	2,87	3,84					
FXM 74.40 A	27,3	135	4.000	22,10	109,0					2,13	2,86	4,54				
FXM 74.40 A	33,6	165	4.000	26,60	131,0						2,36	3,75	4,65			
FXM 74.40 A	39,7	195	4.000	32,10	158,0							3,11	3,85			
FXM 74.40 A	45,6	225	4.000	36,60	181,0							2,73	3,38			
FXM 74.40 A	51,1	255	4.000	42,70	213,0							2,34	2,91			

FXM Series. Ventilated (400 V AC)

	AXD								ACSD / MCS		
	1.08	1.15	1.25	1.35	2.50	2.75	3.100	3.150	04H	08H	16H
I nom. Amp.	4	7,5	12,5	17,5	23,5	31,5	50	62	2	4	8
I peak (0.5 sec.) Amp.	8	15	25	35	47	63	100	124	4	8	16

Motor model Ventilated (400 Vac)	Stal torque [Nm]	Peak torque [Nm]	Rated speed [RPM]	Stall current [Arms]	Peak current [Arms]	Drive Mp / Motor Mo										
						AXD								ACSD / MCS		
						1.08	1.15	1.25	1.35	2.50	2.75	3.100	3.100	04H	08H	16H
FXM 53.12 A	17,8	59	1.200	4,2	14,0	1,89										
FXM 54.12 A	22,2	74	1.200	5,3	17,6		2,84									3,03
FXM 55.12 A	25,9	86	1.200	6,1	20,0		2,49									2,66
FXM 73.12 A	31,2	104	1.200	7,4	25,0		2,00	3,33								2,13
FXM 74.12 A	40,9	135	1.200	9,8	32,0			2,58								
FXM 75.12 A	50,4	165	1.200	12,0	39,0			2,10	2,94							
FXM 76.12 A	59,5	195	1.200	14,1	46,0				2,49							
FXM 77.12 A	68,4	225	1.200	16,6	55,0				2,09	2,81						
FXM 78.12 A	76,6	255	1.200	19,0	63,0					2,48	3,33					
FXM 53.20 A	17,8	59	2.000	7,0	23,0		2,16									2,31
FXM 54.20 A	22,2	74	2.000	8,9	30,0			2,78								
FXM 55.20 A	25,9	86	2.000	10,1	33,0			2,52								
FXM 73.20 A	31,2	104	2.000	12,3	41,0			2,03	2,85							
FXM 74.20 A	40,9	135	2.000	16,5	55,0				2,10	2,82						
FXM 75.20 A	50,4	165	2.000	20,0	65,0					2,37	3,17					
FXM 76.20 A	59,5	195	2.000	23,5	77,0					2,00	2,68					
FXM 77.20 A	68,4	225	2.000	26,8	88,0						2,35					
FXM 78.20 A	76,6	255	2.000	31,0	103,0						2,04	3,23				
FXM 53.30 A	17,8	59	3.000	10,6	35,0			2,37	3,31							
FXM 54.30 A	22,2	74	3.000	13,1	44,0				2,65							
FXM 55.30 A	25,9	86	3.000	15,4	51,0				2,28	3,06						
FXM 73.30 A	31,2	104	3.000	18,5	62,0					2,53						
FXM 74.30 A	40,9	135	3.000	24,3	80,0						2,60					
FXM 75.30 A	50,4	165	3.000	29,9	98,0						2,10					
FXM 76.30 A	59,5	195	3.000	35,3	116,0							2,83				
FXM 77.30 A	68,4	225	3.000	43,5	143,0							2,30	2,85			
FXM 78.30 A	76,6	255	3.000	42,6	142,0							2,34	2,91			
FXM 53.40 A	17,8	59	4.000	14,0	46,0				2,52							
FXM 54.40 A	22,2	74	4.000	17,7	59,0					2,66						
FXM 55.40 A	25,9	86	4.000	21,1	70,0					2,23	2,99					
FXM 73.40 A	31,2	104	4.000	24,7	82,0						2,56					
FXM 74.40 A	40,9	135	4.000	33,1	109,0							3,03				
FXM 75.40 A	50,4	165	4.000	39,9	131,0							2,50	3,10			
FXM 76.40 A	59,5	195	4.000	48,2	158,0							2,07	2,57			
FXM 77.40 A	68,4	225	4.000	55,0	181,0								2,25			
FXM 78.40 A	76,6	255	4.000	63,9	213,0								1,94			

FXM Series. Non-ventilated (220 V AC)

	ACSD / MCS			
	05L	10L	20L	30L
I nom. Amp.	2,5	5	10	15
I peak (0.5 sec.) Amp.	5	10	20	30

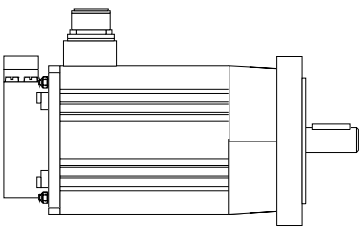
Motor model Non-ventilated (220 Vac)	Stal torque [Nm]	Peak torque [Nm]	Rated speed [RPM]	Stall current [Arms]	Peak current [Arms]	Drive Mp / Motor Mo ACSD / MCS 05L	10L	20L	30L
FXM 55.12 F	17,3	86	1.200	9,1	45,0			2,21	3,31
FXM 73.12 F	20,8	104	1.200	10,7	54,0				2,78
FXM 74.12 F	27,3	135	1.200	13,5	67,0				2,21
FXM 75.12 F	29,5	165	1.200	15,0	85,0				1,97
FXM 14.20 F	4,1	20	2.000	3,5	17,2		2,84		
FXM 31.20 F	2,6	13	2.000	2,2	11,0	2,27	4,55		
FXM 32.20 F	5,1	25	2.000	4,3	22,0		2,23	4,46	
FXM 33.20 F	7,3	36	2.000	6,3	31,0			3,18	4,77
FXM 34.20 F	9,3	46	2.000	7,6	38,0			2,60	3,90
FXM 53.20 F	11,9	59	2.000	9,9	49,0			2,02	3,04
FXM 54.20 F	14,8	74	2.000	12,7	64,0				2,34
FXM 55.20 F	17,3	86	2.000	15,0	77,0				1,94
FXM 53.30 F	11,9	59	3.000	14,8	73,0				2,04
FXM 54.30 F	14,8	74	3.000	18,4	92,0				
FXM 11.40 F	1,2	6	4.000	2,0	10,1	2,48	4,95		
FXM 12.40 F	2,3	11	4.000	3,9	19,3		2,48		
FXM 13.40 F	3,3	16	4.000	5,6	28,0			3,46	
FXM 14.40 F	4,1	20	4.000	6,9	34,0			2,87	4,30
FXM 31.40 F	2,6	13	4.000	4,4	22,0		2,27	4,55	
FXM 32.40 F	5,1	25	4.000	8,4	42,0			2,33	3,50
FXM 33.40 F	7,3	36	4.000	12,0	60,0				2,47
FXM 34.40 F	9,3	46	4.000	15,0	76,0				1,95
FXM 53.40 F	11,9	59	4.000	19,7	98,0				

Encoder - Drive Cable.

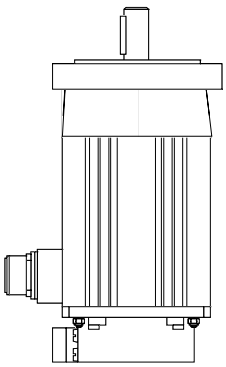
5m	10m	15m	20m	25m	30m	35m	40m	45m	50m
EEC-5	EEC-10	EEC-15	EEC-20	EEC-25	EEC-30	EEC-35	EEC-40	EEC-45	EEC-50
EEC-SP-5	EEC-SP-10	EEC-SP-15	EEC-SP-20	EEC-SP-25	EEC-SP-30	EEC-SP-35	EEC-SP-40	EEC-SP-45	EEC-SP-50
IECD-5	IECD-10	IECD-15	IECD-20	IECD-25					
REC-5	REC-10	REC-15	REC-20	REC-25					

The EEC-FM7 and EEC-SP cables are indicated for A2 and E3 encoders.
The EEC-SP cables improves more flexibility and system immunity against disturbances.
The IECD cables are indicated for I0 encoders
The REC cables are indicated for R0 resolvers
All connections cables have incorporated the HD SubD connector M26 to connect to the drive.

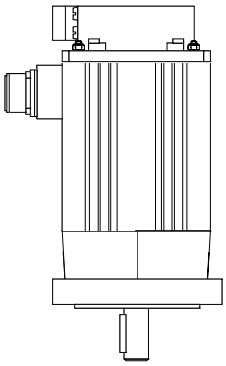
Mounting Methods Key



IM B5



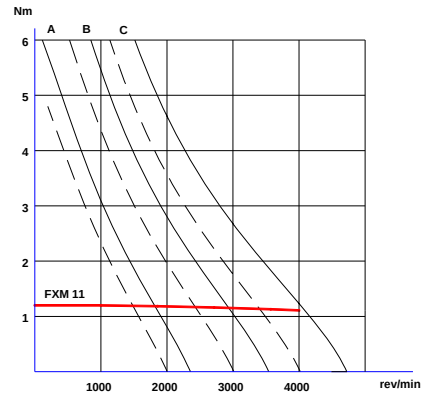
IM V3



IM V1

Torque-Speed Curves. FXM Series non-ventilated at 400 V AC

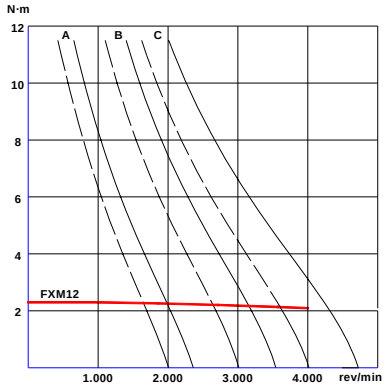
FXM11 series



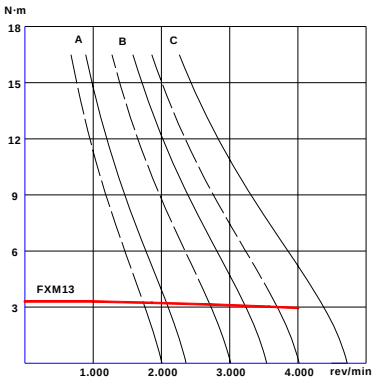
400 V
400 V - 15 %

(A) 2.000 rev/min.
(B) 3.000 rev/min
(C) 4.000 rev/min

FXM12 series



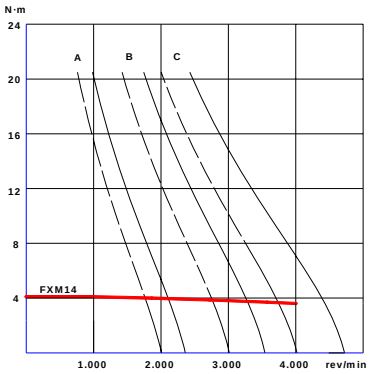
FXM13 series



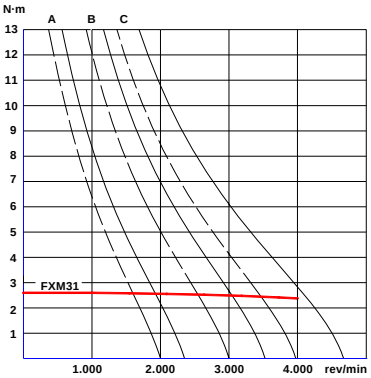
400 V
400 V - 15 %

(A) 2.000 rev/min.
(B) 3.000 rev/min
(C) 4.000 rev/min

FXM14 series



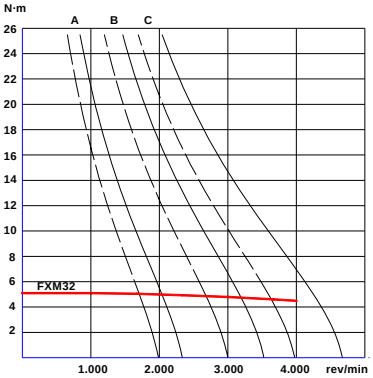
FXM31 series



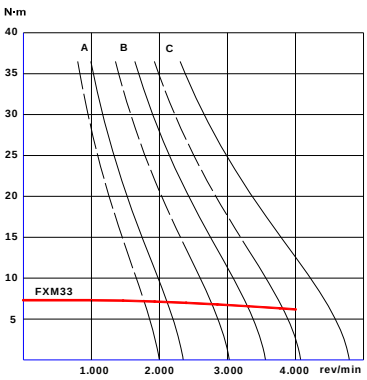
400 V
400 V - 15 %

(A) 2.000 rev/min.
(B) 3.000 rev/min
(C) 4.000 rev/min

FXM32 series



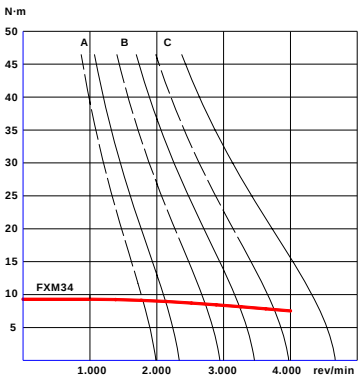
FXM33 series



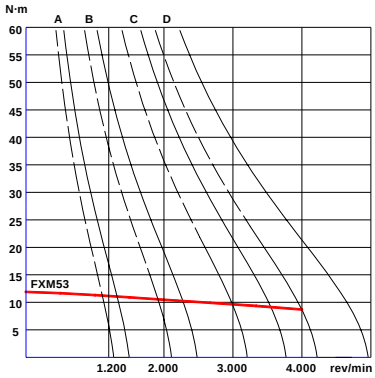
400 V
400 V - 15 %

(A) 2.000 rev/min.
(B) 3.000 rev/min
(C) 4.000 rev/min

FXM34 series



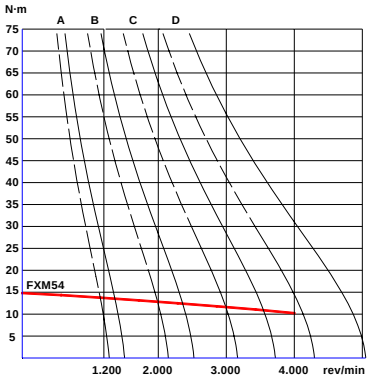
FXM53 series



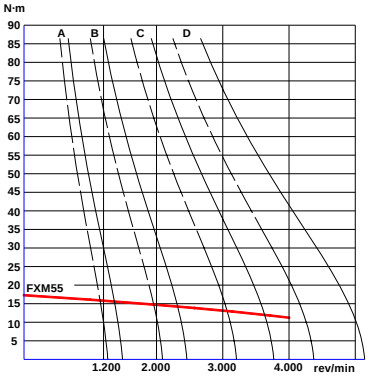
400 V
400 V - 15 %

(A) 1.200 rev/min.
(B) 2.000 rev/min
(C) 3.000 rev/min
(D) 4.000 rev/min

FXM54 series



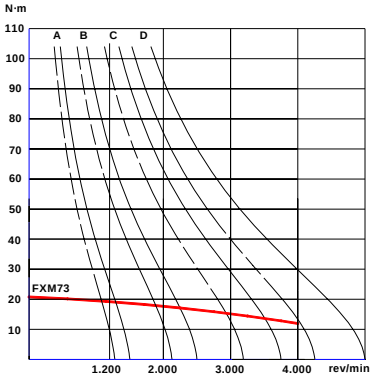
FXM55 series



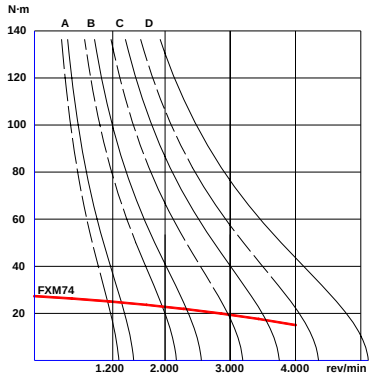
400 V
400 V - 15 %

(A) 1.200 rev/min.
(B) 2.000 rev/min
(C) 3.000 rev/min
(D) 4.000 rev/min

FXM73 series



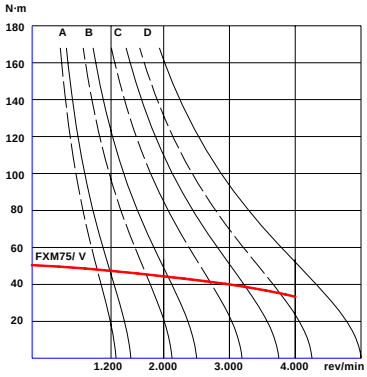
FXM74 series



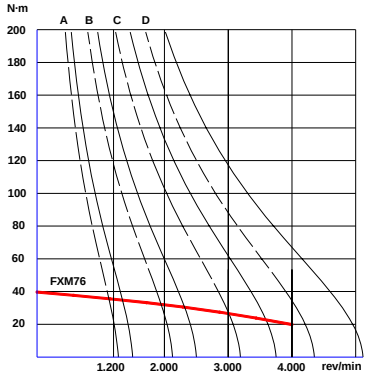
400 V
400 V - 15 %

(A) 1.200 rev/min.
(B) 2.000 rev/min
(C) 3.000 rev/min
(D) 4.000 rev/min

FXM75 series



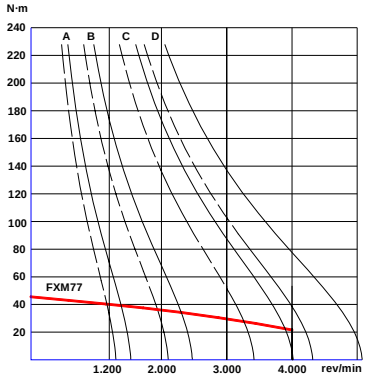
FXM76 series



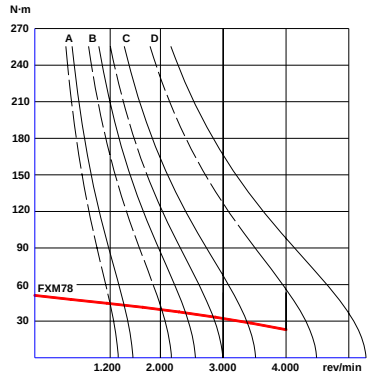
400 V
400 V - 15 %

(A) 1.200 rev/min.
(B) 2.000 rev/min
(C) 3.000 rev/min
(D) 4.000 rev/min

FXM77 series



FXM78 series

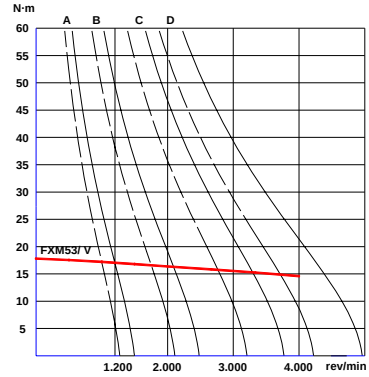


400 V
400 V - 15 %

(A) 1.200 rev/min.
(B) 2.000 rev/min
(C) 3.000 rev/min
(D) 4.000 rev/min

Torque-Speed Curves. FXM Series ventilated at 400 V AC

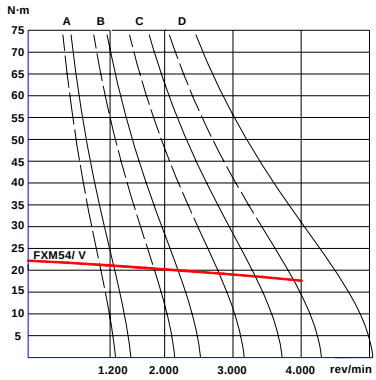
FXM53/V series



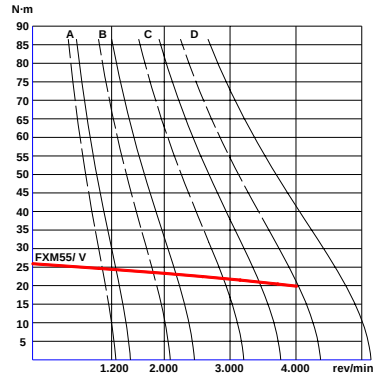
400 V
400 V - 15 %

(A) 1.200 rev/min.
(B) 2.000 rev/min
(C) 3.000 rev/min
(D) 4.000 rev/min

FXM54/V series



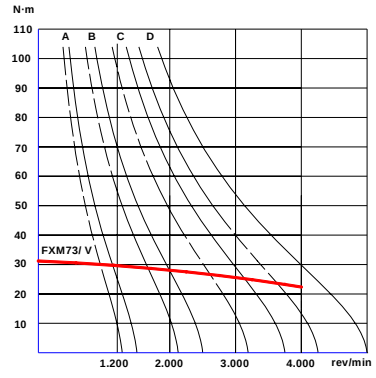
FXM55/V series



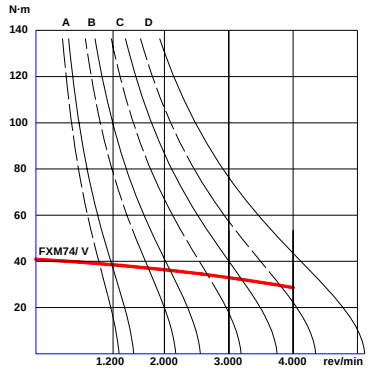
400 V
400 V - 15 %

(A) 1.200 rev/min.
(B) 2.000 rev/min
(C) 3.000 rev/min
(D) 4.000 rev/min

FXM737V series



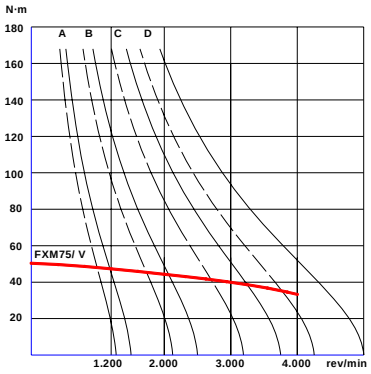
FXM74/V series



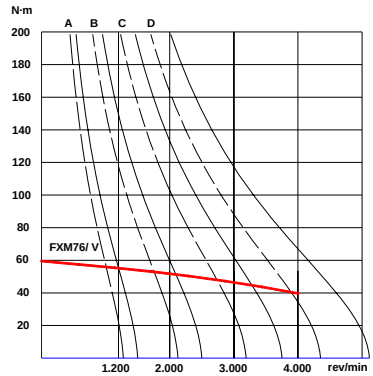
400 V
400 V - 15 %

(A) 1.200 rev/min.
(B) 2.000 rev/min
(C) 3.000 rev/min
(D) 4.000 rev/min

FXM75/V series



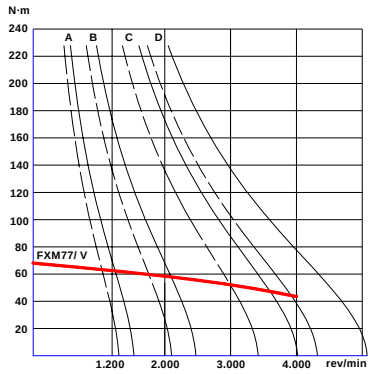
FXM76/V series



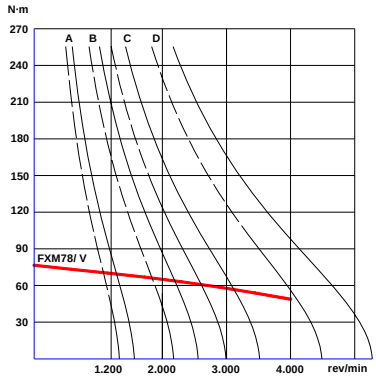
400 V
400 V - 15 %

(A) 1.200 rev/min.
(B) 2.000 rev/min
(C) 3.000 rev/min
(D) 4.000 rev/min

FXM77/V series



FXM78/V series

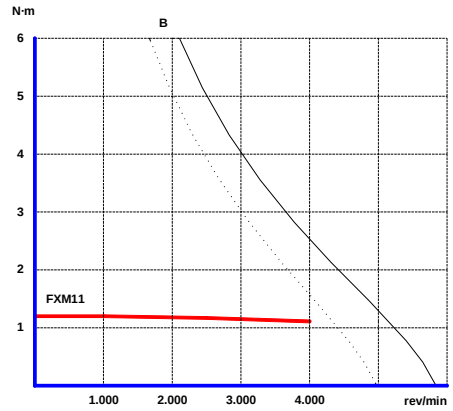


400 V
400 V - 15 %

(A) 1.200 rev/min.
(B) 2.000 rev/min
(C) 3.000 rev/min
(D) 4.000 rev/min

Torque-Speed Curves. FXM Series non-ventilated at 220 V AC

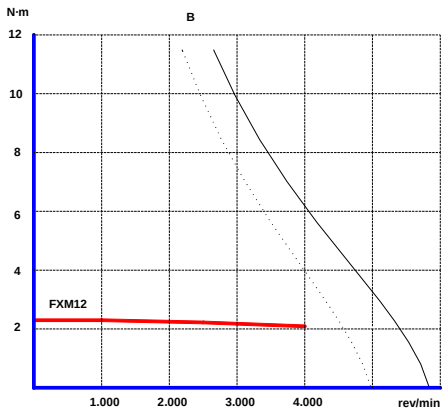
FXM 11 series



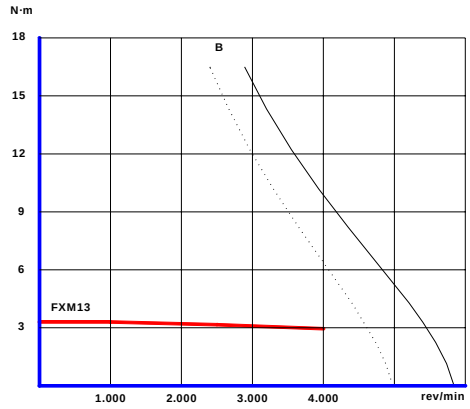
220 V
220 V - 15 %

(B) 4.000 rev/min

FXM 12 series



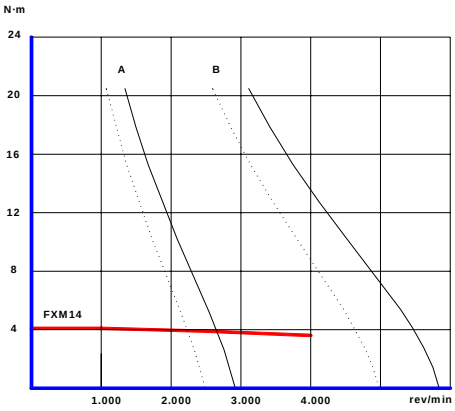
FXM 13 series



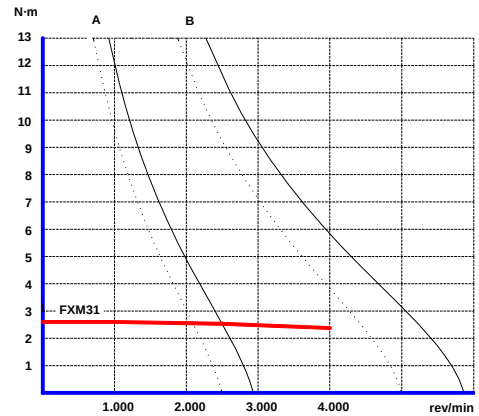
220 V
220 V - 15 %

(A) 2.000 rev/min
(B) 4.000 rev/min

FXM 14 series



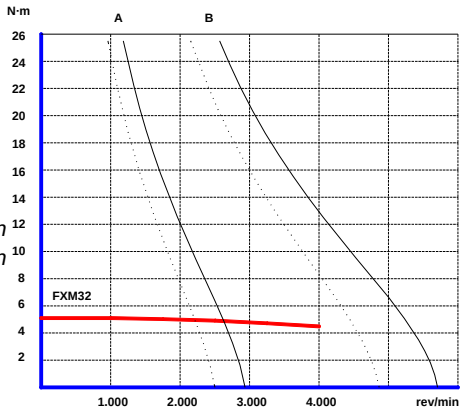
FXM 31 series



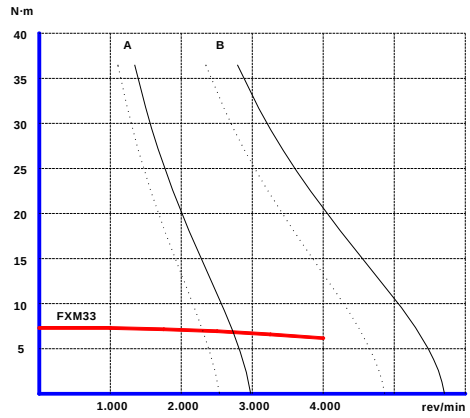
220 V
220 V - 15 %

(A) 2.000 rev/min
(B) 4.000 rev/min

FXM 32 series



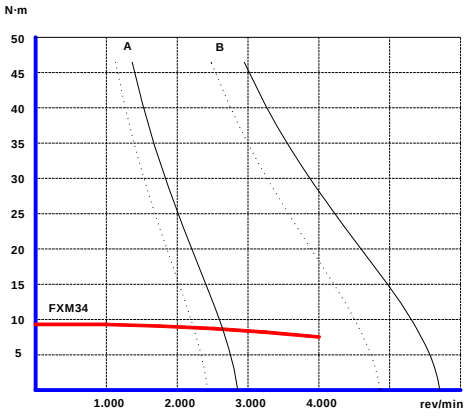
FXM 33 series



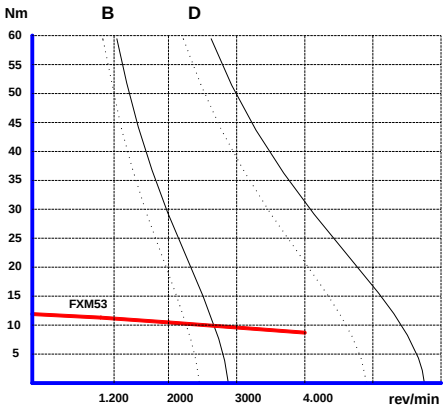
220 V
220 V - 15 %

(A) 2.000 rev/min
(B) 4.000 rev/min

FXM 34 series



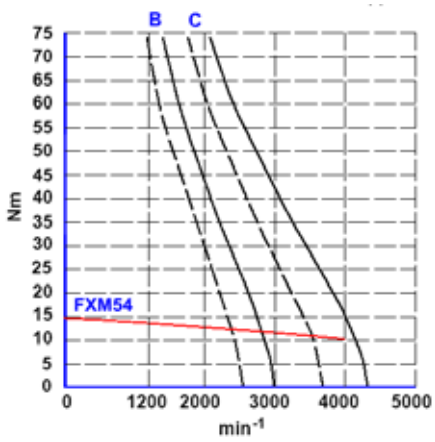
FXM 53 series



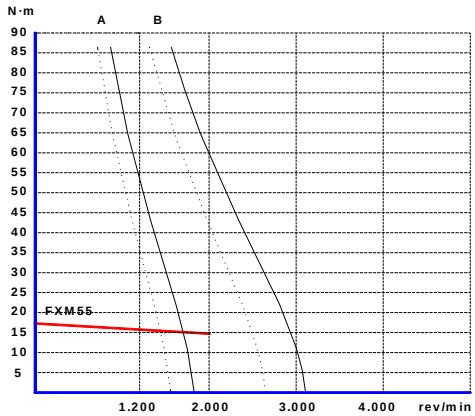
220 V
220 V - 15 %

(B) 2.000 rev/min
(C) 3.000 rev/min
(D) 4.000 rev/min

FXM 54 series



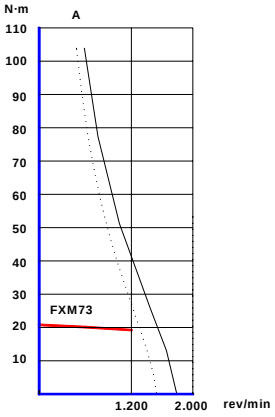
FXM 55 series



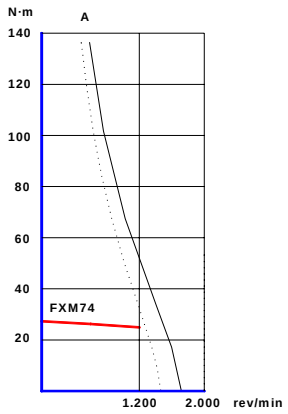
220 V
220 V - 15 %

(A) 1.200 rev/min
(B) 2.000 rev/min

FXM 73 series



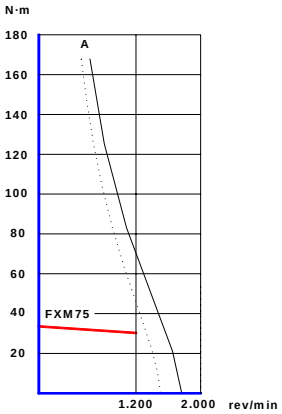
FXM 74 series



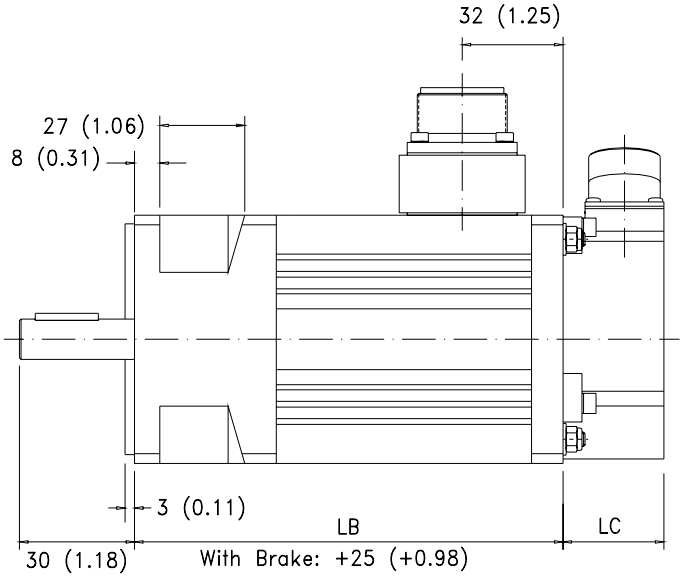
220 V
220 V - 15 %

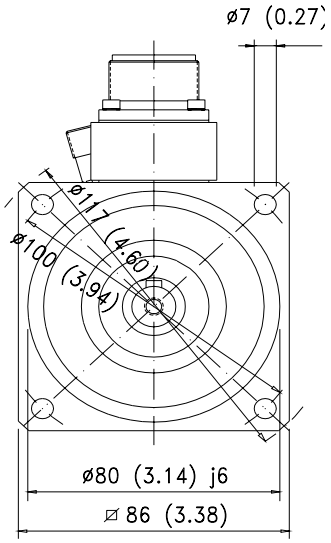
(A) 1.200 rev/min

FXM 75 series



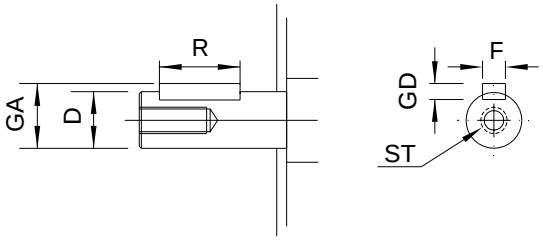
Dimensions FXM1 Series mm - [inches]



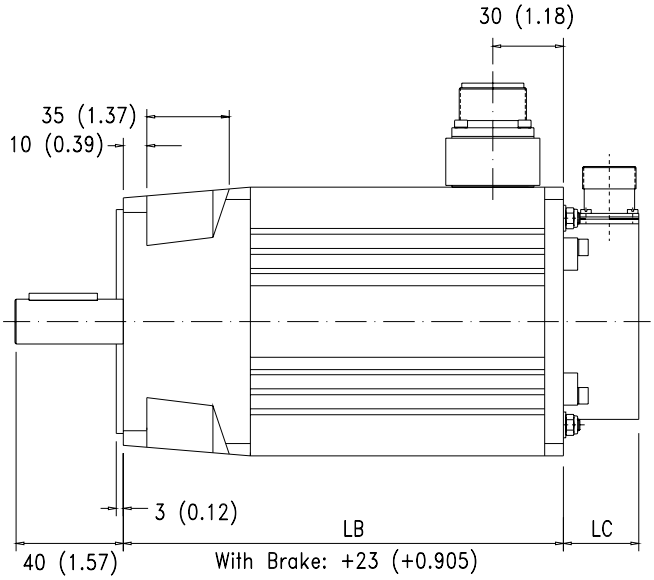


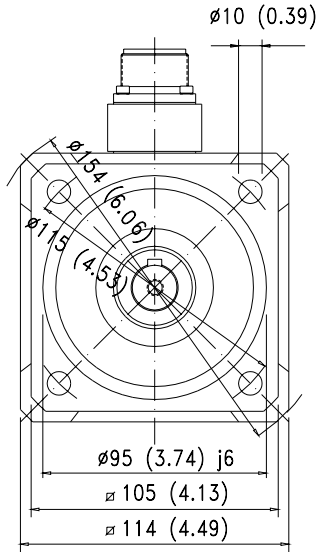
TIPO	F	GD	R	D	GA	ST
FXM1	5 [0.19]	5 [0.19]	20 [0.78]	14 [0.55] j6	16.0 [0.62]	M5 x 12.5 [0.49]

TIPO	LB	LC [RESOLVER]	LC [ENCODER]
FXM11	136 [5.35]	33.5 [1.32]	46 [1.81]
FXM12	171 [6.70]	33.5 [1.32]	46 [1.81]
FXM13	206 [8.11]	33.5 [1.32]	46 [1.81]
FXM14	241 [9.48]	33.5 [1.32]	46 [1.81]



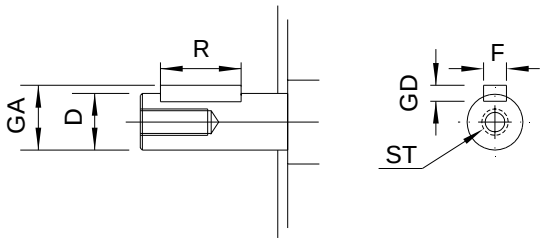
Dimensions FXM3 Series mm - [inches]



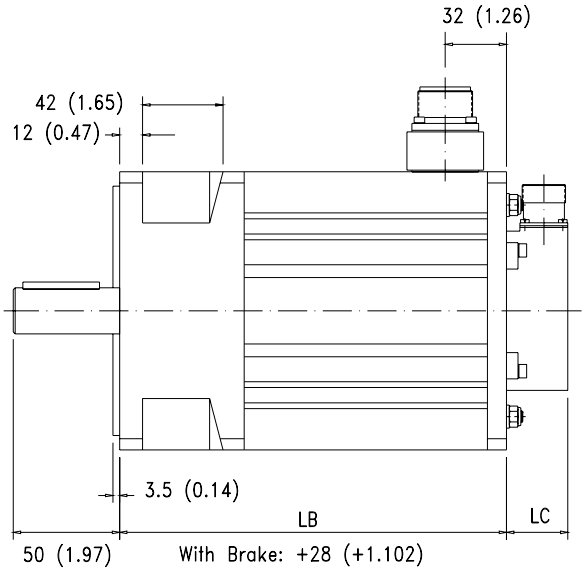


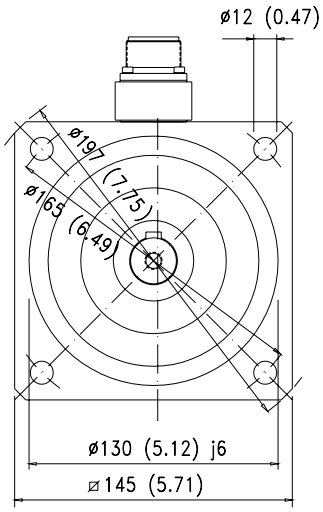
TIPO	F	GD	R	D	GA	ST
FXM3	6 [0.24]	6 [0.24]	30 [1.18]	19 [0.75] j6	21.5 [0.85]	M6 x 16.0 [0.63]

TIPO	LB	LC [RESOLVER]	LC [ENCODER]
FXM31	153 [6.02]	33.5 [1.32]	46 [1.81]
FXM32	188 [7.40]	33.5 [1.32]	46 [1.81]
FXM33	223 [8.77]	33.5 [1.32]	46 [1.81]
FXM34	258 [10.15]	33.5 [1.32]	46 [1.81]



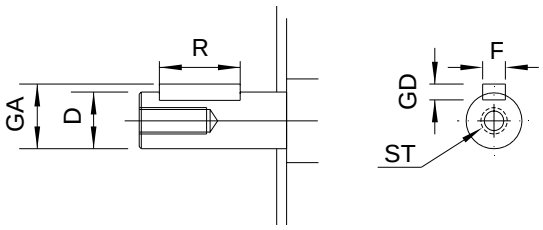
Dimensions FXM5 Series mm - [inches]



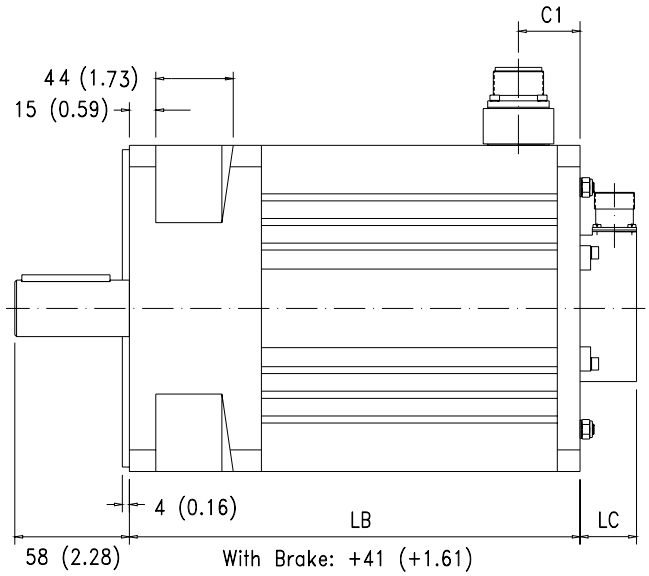


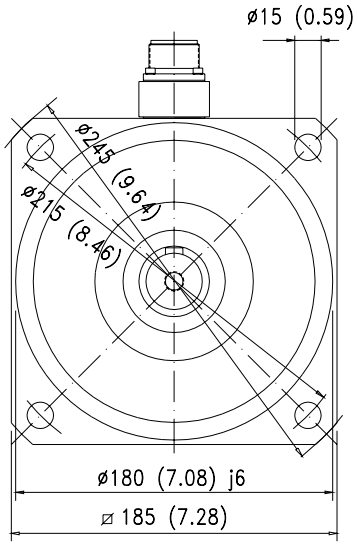
TIPO	F	GD	R	D	GA	ST
FXM5	8 [0.31]	7 [0.27]	40 [1.58]	24 [0.94] j6	27 [1.07]	M8 x 19.0 [0.75]

TIPO	LB	LC [RESOLVER]	LC [ENCODER]
FXM53	237 [9.33]	33.5 [1.32]	46 [1.81]
FXM54	272 [10.71]	33.5 [1.32]	46 [1.81]
FXM55	307 [12.09]	33.5 [1.32]	46 [1.81]

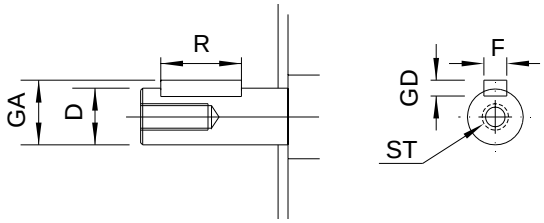


Dimensions FXM7 Series mm - [inches]



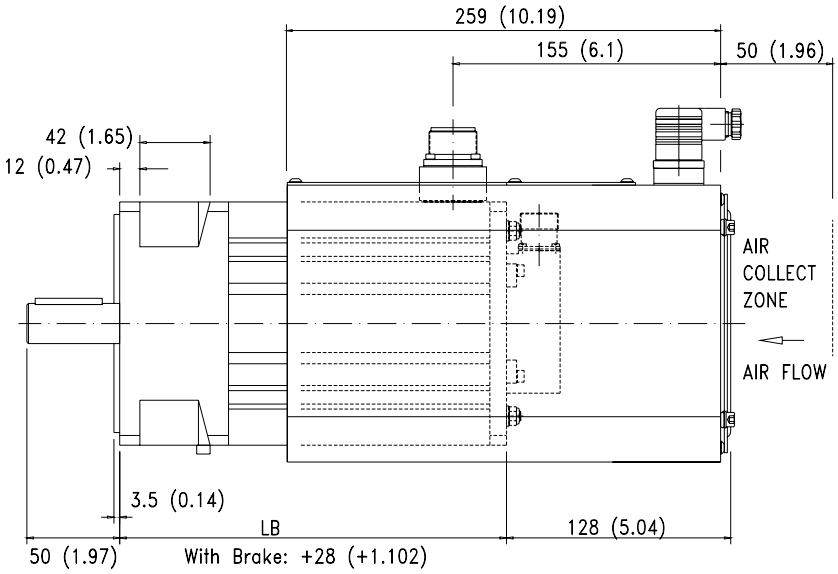


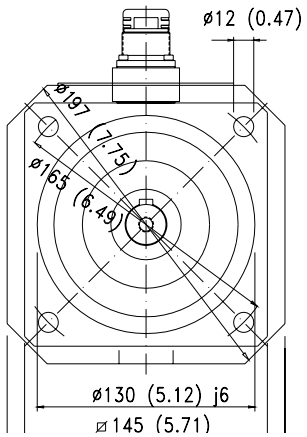
TIPO	F	GD	R	D	GA	ST
FXM7	10 [0.39]	8 [0.31]	50 [1.97]	32 [1.26] k6	35 [1.38]	M10 x 22 [0.86]



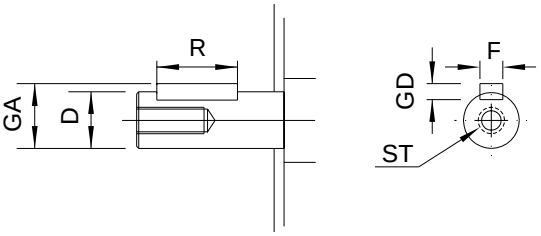
TIPO	LB	LC [RESOLVER]	LC [ENCODER]
FXM73	257 [10.11]	33.5 [1.32]	46 [1.81]
FXM74	292 [11.49]	33.5 [1.32]	46 [1.81]
FXM75	327 [12.87]	33.5 [1.32]	46 [1.81]
FXM76	362 [14.25]	33.5 [1.32]	46 [1.81]
FXM77	397 [15.63]	33.5 [1.32]	46 [1.81]
FXM78	432 [17.01]	33.5 [1.32]	46 [1.81]

Dimensions FXM5/V Series mm - [inches]



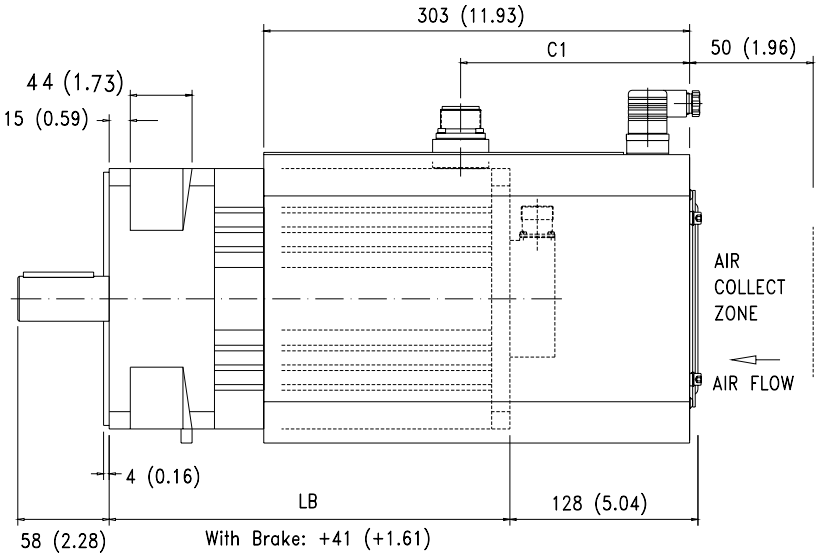


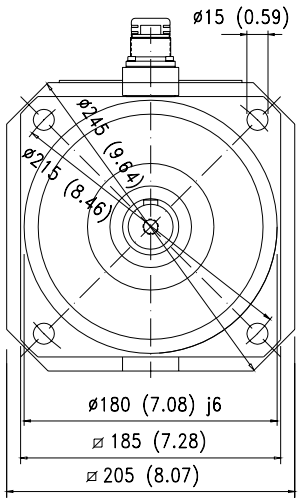
TIPO	F	GD	R	D	GA	ST
FXM5/V	8 [0.31]	7 [0.27]	40 [1.58]	24 [0.94] j6	27 [1.07]	M8 x 19.0 [0.75]



TIPO	LB
FXM53/V	237 [9.33]
FXM54/V	272 [10.71]
FXM55/V	307 [12.09]

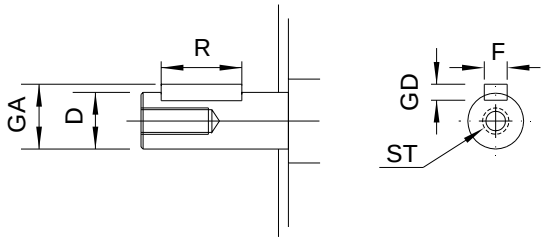
Dimensions FXM7/V Series mm - [inches]





TIPO	F	GD	R	D	GA	ST
FXM7/V	10 [0.39]	8 [0.31]	50 [1.97]	32 [1.26] k6	35 [1.38]	M10 x 22 [0.86]

TIPO	LB	LC [RESOLVER]	LC [ENCODER]
FXM73/V	257 [10.11]	33.5 [1.32]	46 [1.81]
FXM74/V	292 [11.49]	33.5 [1.32]	46 [1.81]
FXM75/V	327 [12.87]	33.5 [1.32]	46 [1.81]
FXM76/V	362 [14.25]	33.5 [1.32]	46 [1.81]
FXM77/V	397 [15.63]	33.5 [1.32]	46 [1.81]
FXM78/V	432 [17.01]	33.5 [1.32]	46 [1.81]



Fax.34-943 79 17 12