



ORDERING HANDBOOK

AC SERVO MOTORS - FXM -



Ref.1603

DENOMINATIONS

FXM . . .

MOTOR SERIES			
SIZE	1, 3, 5, 7		
LENGTH	1, 2, 3, 4, 5, 6, 7, 8		
RATED SPEED	12 1200 rev/min 20 2000 rev/min	30 3000 rev/min 40 4000 rev/min	
WINDING	A 400 V AC F 220 V AC		
FEEDBACK TYPE	E1 Sinusoidal SinCoder 1024 ppt A1 Absolute multi-turn SinCos 1024 ppt I0 Incremental TTL 2500 ppt		
FLANGE & SHAFT	0 With standard keyway 1 Without keyway		
BRAKE OPTION	0 Without brake 1 With standard brake (24 V DC) (Neodine type H with double torque)		
FAN OPTION	0 Without fan 1 With fan (only in sizes 5 and 7)		

Note 1.
The encoder with I0 reference will only be installed on models with "F" type winding ·220 VAC· of the FXM family. The encoders with either E1 or A1 reference will only be installed on any of the models with "A" type winding ·400 V AC· of the FKM family.

ELECTRICAL DATA AND POWER CABLE

Non-ventilated motor model with "A" winding (400 V AC)	Rated speed	Stall torque	Rated torque	Stall current	Calculation power	Poles pairs	Power connector	Power cable	
	nN	Mo	Mn	Io	Pcal	p		whitout brake	with brake
	1/min	N·m	N·m	Arms	kW			Nr wires x mm ²	Nr wires x mm ² +(2x1)
FXM53.12A.□□.□00	1200	11.9	11.1	2.8	1.5	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM54.12A.□□.□00	1200	14.8	13.7	3.5	1.9	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM55.12A.□□.□00	1200	17.3	15.7	4.1	2.2	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM73.12A.□□.□00	1200	20.8	19.2	4.9	2.6	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM74.12A.□□.□00	1200	27.3	24.9	6.6	3.4	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM75.12A.□□.□00	1200	33.6	30.2	8.0	4.2	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM76.12A.□□.□00	1200	39.7	35.3	9.4	5.0	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM77.12A.□□.□00	1200	45.6	40.0	11.0	5.7	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM78.12A.□□.□00	1200	51.1	44.3	12.6	6.4	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM11.20A.□□.□00	2000	1.2	1.1	0.4	0.3	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM12.20A.□□.□00	2000	2.3	2.2	0.8	0.5	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM13.20A.□□.□00	2000	3.3	3.2	1.2	0.7	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM14.20A.□□.□00	2000	4.1	3.9	1.5	0.9	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM31.20A.□□.□00	2000	2.6	2.5	0.9	0.5	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM32.20A.□□.□00	2000	5.1	5.0	1.8	1.1	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM33.20A.□□.□00	2000	7.3	7.1	2.7	1.5	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM34.20A.□□.□00	2000	9.3	9.0	3.4	1.9	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM53.20A.□□.□00	2000	11.9	10.5	4.7	2.5	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM54.20A.□□.□00	2000	14.8	12.8	5.9	3.1	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM55.20A.□□.□00	2000	17.3	14.7	6.7	3.6	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM73.20A.□□.□00	2000	20.8	17.7	8.2	4.4	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM74.20A.□□.□00	2000	27.3	22.8	11.1	5.7	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM75.20A.□□.□00	2000	33.6	27.5	13.3	7.0	3	MC 23	MPC-4x2.5	MPC-4x2.5+(2x1)
FXM76.20A.□□.□00	2000	39.7	31.9	15.7	8.3	3	MC 23	MPC-4x2.5	MPC-4x2.5+(2x1)
FXM77.20A.□□.□00	2000	45.6	36.0	17.8	9.6	3	MC 23	MPC-4x4	MPC-4x4+(2x1)
FXM78.20A.□□.□00	2000	51.1	39.6	20.7	10.7	3	MC 23	MPC-4x4	MPC-4x4+(2x1)
FXM11.30A.□□.□00	3000	1.2	1.1	0.6	0.4	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM12.30A.□□.□00	3000	2.3	2.1	1.2	0.7	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM13.30A.□□.□00	3000	3.3	3.1	1.8	1.0	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM14.30A.□□.□00	3000	4.1	3.8	2.3	1.3	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)

Non-ventilated motor model with "A" winding (400 V AC)	Rated speed	Stall torque	Rated torque	Stall current	Calculation power	Poles pairs	Power connector	Power cable	
	nN	Mo	Mn	Io	Pcal	p		whitout brake	with brake
	1/min	N·m	N·m	Arms	kW			Nr wires x mm ²	Nr wires x mm ² +(2x1)
FXM31.30A.□□.□00	3000	2.6	2.5	1.4	0.8	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM32.30A.□□.□00	3000	5.1	4.7	2.8	1.6	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM33.30A.□□.□00	3000	7.3	6.7	4.1	2.3	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM34.30A.□□.□00	3000	9.3	8.3	5.1	2.9	3	MC23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM53.30A.□□.□00	3000	11.9	9.6	7.1	3.7	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM54.30A.□□.□00	3000	14.8	11.6	8.7	4.7	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM55.30A.□□.□00	3000	17.3	13.1	10.3	5.4	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM73.30A.□□.□00	3000	20.8	15.2	12.3	6.5	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM74.30A.□□.□00	3000	27.3	19.4	16.2	8.6	3	MC 23	MPC-4x2.5	MPC-4x2.5+(2x1)
FXM75.30A.□□.□00	3000	33.6	23.2	19.9	10.6	3	MC 23*	MPC-4x4	MPC-4x4+(2x1)
FXM76.30A.□□.□00	3000	39.7	26.6	23.6	12.5	3	MC 23*	MPC-4x6	MPC-4x6+(2x1)
FXM77.30A.□□.□00	3000	45.6	29.6	29.0	14.3	3	MC 46	MPC-4x6	MPC-4x6+(2x1)
FXM78.30A.□□.□00	3000	51.1	32.2	28.4	16.1	3	MC 46	MPC-4x6	MPC-4x6+(2x1)
FXM11.40A.□□.□00	4000	1.2	1.1	0.9	0.5	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM12.40A.□□.□00	4000	2.3	2.0	1.7	1.0	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM13.40A.□□.□00	4000	3.3	2.9	2.5	1.4	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM14.40A.□□.□00	4000	4.1	3.6	3.1	1.7	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM31.40A.□□.□00	4000	2.6	2.3	1.9	1.1	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM32.40A.□□.□00	4000	5.1	4.4	3.8	2.1	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM33.40A.□□.□00	4000	7.3	6.1	5.5	3.1	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM34.40A.□□.□00	4000	9.3	7.5	6.9	3.9	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM53.40A.□□.□00	4000	11.9	8.7	9.3	5.0	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM54.40A.□□.□00	4000	14.8	10.2	11.8	6.2	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM55.40A.□□.□00	4000	17.3	11.2	14.1	7.3	3	MC 23	MPC-4x2.5	MPC-4x2.5+(2x1)
FXM73.40A.□□.□00	4000	20.8	11.9	16.5	8.7	3	MC 23	MPC-4x2.5	MPC-4x2.5+(2x1)
FXM74.40A.□□.□00	4000	27.3	15.0	22.1	11.4	3	MC 23	MPC-4x4	MPC-4x4+(2x1)
FXM75.40A.□□.□00	4000	33.6	17.6	26.6	14.1	3	MC 46	MPC-4x6	MPC-4x6+(2x1)
FXM76.40A.□□.□00	4000	39.7	19.8	32.1	16.6	3	MC 46	MPC-4x10	MPC-4x10+(2x1)
FXM77.40A.□□.□00	4000	45.6	21.7	36.6	19.1	3	MC 46	MPC-4x10	MPC-4x10+(2x1)
FXM78.40A.□□.□00	4000	51.1	23.0	42.7	21.4	3	MC 46	MPC-4x16	MPC-4x16+(2x1)

Ventilated motor model with "A" winding (400 V AC)	Rated speed	Stall torque	Rated torque	Stall current	Calculation power	Poles pairs	Power connector	Power cable	
	nN	Mo	Mn	Io	Pcal	p		whitout brake	with brake
	1/min	N·m	N·m	Arms	kW			Nr wires x mm ²	Nr wires x mm ² +(2x1)
FXM53.12A.□□.□01	1200	17.8	17.0	4.2	2.2	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM54.12A.□□.□01	1200	22.2	21.0	5.3	2.8	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM55.12A.□□.□01	1200	25.9	24.5	6.1	3.3	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM73.12A.□□.□01	1200	31.2	29.5	7.4	3.9	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM74.12A.□□.□01	1200	40.9	38.5	9.8	5.1	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM75.12A.□□.□01	1200	50.4	47.0	12.0	6.3	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM76.12A.□□.□01	1200	59.5	55.0	14.1	7.5	3	MC 23	MPC-4x2.5	MPC-4x2.5+(2x1)
FXM77.12A.□□.□01	1200	68.4	62.8	16.6	8.6	3	MC 23	MPC-4x2.5	MPC-4x2.5+(2x1)
FXM78.12A.□□.□01	1200	76.6	69.8	19.0	9.6	3	MC 23*	MPC-4x4	MPC-4x4+(2x1)
FXM53.20A.□□.□01	2000	17.8	16.4	7.0	3.7	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM54.20A.□□.□01	2000	22.2	20.2	8.9	4.7	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM55.20A.□□.□01	2000	25.9	23.2	10.1	5.4	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM73.20A.□□.□01	2000	31.2	28.1	12.3	6.5	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM74.20A.□□.□01	2000	40.9	36.4	16.5	8.6	3	MC 23	MPC-4x2.5	MPC-4x2.5+(2x1)
FXM75.20A.□□.□01	2000	50.4	44.3	20.0	10.6	3	MC 23*	MPC-4x4	MPC-4x4+(2x1)
FXM76.20A.□□.□01	2000	59.5	51.8	23.5	12.5	3	MC 46	MPC-4x6	MPC-4x6+(2x1)
FXM77.20A.□□.□01	2000	68.4	58.8	26.8	14.3	3	MC 46	MPC-4x6	MPC-4x6+(2x1)
FXM78.20A.□□.□01	2000	76.6	65.1	31.0	16.0	3	MC 46	MPC-4x10	MPC-4x10+(2x1)
FXM53.30A.□□.□01	3000	17.8	15.5	10.6	5.6	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM54.30A.□□.□01	3000	22.2	19.0	13.1	7.0	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM55.30A.□□.□01	3000	25.9	21.8	15.4	8.1	3	MC 23	MPC-4x2.5	MPC-4x2.5+(2x1)
FXM73.30A.□□.□01	3000	31.2	25.6	18.5	9.8	3	MC 23*	MPC-4x4	MPC-4x4+(2x1)
FXM74.30A.□□.□01	3000	40.9	33.0	24.3	12.8	3	MC 46	MPC-4x6	MPC-4x6+(2x1)
FXM75.30A.□□.□01	3000	50.4	40.0	29.9	15.8	3	MC 46	MPC-4x6	MPC-4x6+(2x1)
FXM76.30A.□□.□01	3000	59.5	46.4	35.3	18.7	3	MC 46	MPC-4x10	MPC-4x10+(2x1)
FXM77.30A.□□.□01	3000	68.4	52.4	43.5	21.5	3	MC 46	MPC-4x16	MPC-4x16+(2x1)
FXM78.30A.□□.□01	3000	76.6	57.7	42.6	24.1	3	MC 46	MPC-4x16	MPC-4x16+(2x1)

* Do not use the AMC angled terminal strip.

Ventilated motor model with "A" winding (400 V AC)	Rated speed	Stall torque	Rated torque	Stall current	Calculation power	Poles pairs	Power connector	Power cable	
	nN	Mo	Mn	Io	Pcal	p		whitout brake	with brake
	1/min	N·m	N·m	Arms	kW			Nr wires x mm ²	Nr wires x mm ² +(2x1)
FXM53.40A.□□.□01	4000	17.8	14.6	14.0	7.5	3	MC 23	MPC-4x2.5	MPC-4x2.5+(2x1)
FXM54.40A.□□.□01	4000	22.2	17.6	17.7	9.3	3	MC 23	MPC-4x4	MPC-4x4+(2x1)
FXM55.40A.□□.□01	4000	25.9	19.9	21.1	10.8	3	MC 23*	MPC-4x4	MPC-4x4+(2x1)
FXM73.40A.□□.□01	4000	31.2	22.4	24.7	13.1	3	MC 46	MPC-4x6	MPC-4x6+(2x1)
FXM74.40A.□□.□01	4000	40.9	28.6	33.1	17.1	3	MC 46	MPC-4x10	MPC-4x10+(2x1)
FXM75.40A.□□.□01	4000	50.4	34.4	39.9	21.1	3	MC 46	MPC-4x10	MPC-4x10+(2x1)
FXM76.40A.□□.□01	4000	59.5	39.7	48.2	24.9	3	MC 80	MPC-4x16	MPC-4x16+(2x1)
FXM77.40A.□□.□01	4000	68.4	44.5	55.0	28.6	3	MC 80	MPC-4x25	MPC-4x25+(2x1)
FXM78.40A.□□.□01	4000	76.6	48.5	63.9	32.1	3	MC 80	MPC-4x25	MPC-4x25+(2x1)

* Do not use the AMC angled terminal strip.

Non-ventilated motor model with "F" winding (220 V AC)	Rated speed	Stall torque	Rated torque	Stall current	Calculation power	Poles pairs	Power connector	Power cable	
	nN	Mo	Mn	Io	Pcal	p		whitout brake	with brake
	1/min	N·m	N·m	Arms	kW			Nr wires x mm ²	Nr wires x mm ² +(2x1)
FXM55.12F.□□.□00	1200	17.3	15.8	9.1	2.2	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM73.12F.□□.□00	1200	20.8	18.9	10.7	2.6	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM74.12F.□□.□00	1200	27.3	24.9	13.5	3.4	3	MC 23	MPC-4x2.5	MPC-4x2.5+(2x1)
FXM75.12F.□□.□00	1200	33.6	29.5	17.1	4.2	3	MC 23	MPC-4x2.5	MPC-4x2.5+(2x1)
FXM14.20F.□□.□00	2000	4.1	4.0	3.5	0.9	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM31.20F.□□.□00	2000	2.6	2.5	2.2	0.5	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM32.20F.□□.□00	2000	5.1	5.0	4.3	1.1	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM33.20F.□□.□00	2000	7.3	7.0	6.3	1.5	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM34.20F.□□.□00	2000	9.3	9.0	7.6	1.9	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM53.20F.□□.□00	2000	11.9	10.5	9.9	2.5	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM54.20F.□□.□00	2000	14.8	12.8	12.7	3.1	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM55.20F.□□.□00	2000	17.3	14.7	15.5	3.6	3	MC 23	MPC-4x2.5	MPC-4x2.5+(2x1)
FXM53.30F.□□.□00	3000	11.9	10.0	14.8	3.7	3	MC 23	MPC-4x2.5	MPC-4x2.5+(2x1)
FXM54.30F.□□.□00	3000	14.8	11.6	18.4	4.7	3	MC 23	MPC-4x4	MPC-4x4+(2x1)
FXM11.40F.□□.□00	4000	1.2	1.1	2.0	0.5	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM12.40F.□□.□00	4000	2.3	2.1	3.9	1.0	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM13.40F.□□.□00	4000	3.3	3.0	5.6	1.4	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM14.40F.□□.□00	4000	4.1	3.5	6.9	1.7	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM31.40F.□□.□00	4000	2.6	2.4	4.4	1.1	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM32.40F.□□.□00	4000	5.1	4.4	8.4	2.1	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM33.40F.□□.□00	4000	7.3	6.1	12.0	3.1	3	MC 23	MPC-4x1.5	MPC-4x1.5+(2x1)
FXM34.40F.□□.□00	4000	9.3	7.6	15.3	3.9	3	MC 23	MPC-4x2.5	MPC-4x2.5+(2x1)
FXM53.40F.□□.□00	4000	11.9	8.7	19.7	5.0	3	MC 23	MPC-4x4	MPC-4x4+(2x1)

RECOMMENDED MOTOR/DRIVE COMBINATION

The drive selecting procedure always depends on the application.

- The peak current of the drive must be higher than the stall current of the motor. (Ip drive > Io motor)
- If the application is going to demand from the motor a rated duty cycle or lower than 100%, it will suf-fice 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 stall torque 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 stall torque of the 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 that the drive can provide is Mp drive = Kt motor x Ip drive, where: Kt motor = Mo motor / Io motor:

		AXD								ACSD / MCS		
		1.08	1.15	1.25	1.35	2.50	2.75	3.100	3.150	04H	08H	16H
Rated current	In (Arms)	4.0	7.5	12.5	17.5	25.0	37.5	50.0	75.0	2	4	8
Peak current	Ip, 0.5 s (Arms)	8.0	15.0	25.0	35.0	50.0	75.0	100.0	150.0	4	8	16

Non-ventilated motor model with "A" winding (400 V AC)	Stall torque	Stall peak torque	Rated speed	Stall current	Peak current	Drive Mp / Motor Mo							ACSD / MCS					
						Mo	Mp	nN	Io	Ip	AXD							04H
	N·m	N·m	1/min	Arms	Arms	1.08	1.15	1.25	1.35	2.50	2.75	3.100	3.150					
FXM53.12A.□□.□□00	11.9	59	1200	2.8	14.0	2.8	4.9	-	-	-	-	-	-	-	-	2.8	4.9	4.9
FXM54.12A.□□.□□00	14.8	74	1200	3.5	17.6	2.2	4.2	5.0	-	-	-	-	-	-	-	2.2	4.5	4.5
FXM55.12A.□□.□□00	17.3	86	1200	4.1	20.0		3.6	4.9	-	-	-	-	-	-	-			3.9
FXM73.12A.□□.□□00	20.8	104	1200	4.9	25.0		3.0	5.0	-	-	-	-	-	-	-			3.2
FXM74.12A.□□.□□00	27.3	135	1200	6.6	32.0			3.8	4.9	-	-	-	-	-	-			2.4
FXM75.12A.□□.□□00	33.6	165	1200	8.0	39.0			3.1	4.3	4.9	-	-	-	-	-			2.0
FXM76.12A.□□.□□00	39.7	195	1200	9.4	46.0			2.6	3.7	4.9	-	-	-	-	-	-	-	-
FXM77.12A.□□.□□00	45.6	225	1200	11.0	55.0			2.2	3.1	4.5	4.9	-	-	-	-	-	-	-
FXM78.12A.□□.□□00	51.1	255	1200	12.6	63.0				2.7	3.9	5.0	-	-	-	-	-	-	-
FXM11.20A.□□.□□00	1.2	6	2000	0.4	2.2	5.0	-	-	-	-	-	-	-	-	-	5.0	-	-
FXM12.20A.□□.□□00	2.3	11	2000	0.8	4.1	4.7	-	-	-	-	-	-	-	-	-	4.6	4.7	-
FXM13.20A.□□.□□00	3.3	16	2000	1.2	6.0	4.8	-	-	-	-	-	-	-	-	-	3.2	4.8	-
FXM14.20A.□□.□□00	4.1	20	2000	1.5	7.5	4.8	-	-	-	-	-	-	-	-	-	2.6	4.8	-
FXM31.20A.□□.□□00	2.6	13	2000	0.9	4.8	5.0	-	-	-	-	-	-	-	-	-	4.1	5.0	-
FXM32.20A.□□.□□00	5.1	25	2000	1.8	9.2	4.2	4.9	-	-	-	-	-	-	-	-	2.1	4.2	4.9
FXM33.20A.□□.□□00	7.3	36	2000	2.7	13.4	2.9	4.9	-	-	-	-	-	-	-	-		2.9	4.9
FXM34.20A.□□.□□00	9.3	46	2000	3.4	17.0	2.3	4.3	4.9	-	-	-	-	-	-	-		2.3	4.7
FXM53.20A.□□.□□00	11.9	59	2000	4.7	23.0		3.1	4.9	-	-	-	-	-	-	-			3.4
FXM54.20A.□□.□□00	14.8	74	2000	5.9	30.0		2.5	4.2	5.0	-	-	-	-	-	-			2.7
FXM55.20A.□□.□□00	17.3	86	2000	6.7	33.0		2.2	3.7	4.9	-	-	-	-	-	-			2.3
FXM73.20A.□□.□□00	20.8	104	2000	8.2	41.0			3.0	4.2	5.0	-	-	-	-	-	-	-	-
FXM74.20A.□□.□□00	27.3	135	2000	11.1	55.0			2.7	3.2	4.6	4.9	-	-	-	-	-	-	-
FXM75.20A.□□.□□00	33.6	165	2000	13.3	65.0				2.6	3.7	4.9	-	-	-	-	-	-	-
FXM76.20A.□□.□□00	39.7	195	2000	15.7	77.0				2.2	3.1	4.7	4.9	-	-	-	-	-	-
FXM77.20A.□□.□□00	45.6	225	2000	17.8	88.0					2.8	4.2	4.9	-	-	-	-	-	-
FXM78.20A.□□.□□00	51.1	255	2000	20.7	103.0					2.4	3.6	4.9	5.0	-	-	-	-	-
FXM11.30A.□□.□□00	1.2	6	3000	0.6	3.4	5.0	-	-	-	-	-	-	-	-	-	5.0	-	-
FXM12.30A.□□.□□00	2.3	11	3000	1.2	6.2	4.7	-	-	-	-	-	-	-	-	-	3.0	4.7	-
FXM13.30A.□□.□□00	3.3	16	3000	1.8	9.0	4.3	4.8	-	-	-	-	-	-	-	-	2.1	4.3	4.8
FXM14.30A.□□.□□00	4.1	20	3000	2.3	11.2	3.5	4.8	-	-	-	-	-	-	-	-		3.4	4.8
FXM31.30A.□□.□□00	2.6	13	3000	1.4	7.3	5.0	-	-	-	-	-	-	-	-	-	2.7	5.0	-
FXM32.30A.□□.□□00	5.1	25	3000	2.8	14.0	2.8	4.9	-	-	-	-	-	-	-	-		2.8	4.9
FXM33.30A.□□.□□00	7.3	36	3000	4.1	20.0		3.6	4.9	-	-	-	-	-	-	-			3.9
FXM34.30A.□□.□□00	9.3	46	3000	5.1	25.0		2.9	4.8	4.9	-	-	-	-	-	-			3.1
FXM53.30A.□□.□□00	11.9	59	3000	7.1	35.0		2.1	3.5	4.9	-	-	-	-	-	-			2.2
FXM54.30A.□□.□□00	14.8	74	3000	8.7	44.0			2.8	4.0	5.0	-	-	-	-	-	-	-	-
FXM55.30A.□□.□□00	17.3	86	3000	10.3	51.0			2.4	3.4	4.9	5.0	-	-	-	-	-	-	-
FXM73.30A.□□.□□00	20.8	104	3000	12.3	62.0			2.0	2.8	4.1	5.0	-	-	-	-	-	-	-
FXM74.30A.□□.□□00	27.3	135	3000	16.2	80.0				2.1	3.1	4.6	4.9	-	-	-	-	-	-
FXM75.30A.□□.□□00	33.6	165	3000	19.9	98.0					2.5	3.8	4.9	-	-	-	-	-	-
FXM76.30A.□□.□□00	39.7	195	3000	23.6	116.0					2.1	3.2	4.2	4.9	-	-	-	-	-
FXM77.30A.□□.□□00	45.6	225	3000	29.0	143.0						2.2	3.5	4.9	-	-	-	-	-
FXM78.30A.□□.□□00	51.1	255	3000	28.4	142.0						2.6	3.5	5.0	-	-	-	-	-
FXM11.40A.□□.□□00	1.2	6	4000	0.9	4.5	5.0	-	-	-	-	-	-	-	-	-	4.3	5.0	-
FXM12.40A.□□.□□00	2.3	11	4000	1.7	8.2	4.5	4.7	-	-	-	-	-	-	-	-	2.3	4.6	4.7
FXM13.40A.□□.□□00	3.3	16	4000	2.5	12.0	4.3	4.8	-	-	-	-	-	-	-	-		3.2	4.8
FXM14.40A.□□.□□00	4.1	20	4000	3.1	15.0	2.5	4.7	4.8	-	-	-	-	-	-	-		2.5	4.8
FXM31.40A.□□.□□00	2.6	13	4000	1.9	9.6	4.3	5.0	-	-	-	-	-	-	-	-	2.0	4.1	5.0
FXM32.40A.□□.□□00	5.1	25	4000	3.8	18.5	2.2	4.1	4.9	-	-	-	-	-	-	-		2.0	4.1
FXM33.40A.□□.□□00	7.3	36	4000	5.5	27.0		2.6	4.4	4.9	-	-	-	-	-	-			2.9
FXM34.40A.□□.□□00	9.3	46	4000	6.9	34.0		2.2	3.7	4.9	-	-	-	-	-	-			2.3
FXM53.40A.□□.□□00	11.9	59	4000	9.3	46.0			2.7	3.8	4.9	-	-	-	-	-	-	-	-
FXM54.40A.□□.□□00	14.8	74	4000	11.8	59.0			2.2	3.0	4.4	5.0	-	-	-	-	-	-	-
FXM55.40A.□□.□□00	17.3	86	4000	14.1	70.0				2.4	3.4	4.9	-	-	-	-	-	-	-
FXM73.40A.□□.□□00	20.8	104	4000	16.5	82.0				2.1	3.1	4.7	5.0	-	-	-	-	-	-
FXM74.40A.□□.□□00	27.3	135	4000	22.1	109.0					2.2	3.3	4.4	4.9	-	-	-	-	-
FXM75.40A.□□.□□00	33.6	165	4000	26.6	131.0						2.9	3.8	4.9	-	-	-	-	-
FXM76.40A.□□.□□00	39.7	195	4000	32.1	158.0						2.3	3.0	4.5	-	-	-	-	-
FXM77.40A.□□.□□00	45.6	225	4000	36.6	181.0						2.0	2.6	3.2	-	-	-	-	-
FXM78.40A.□□.□□00	51.1	255	4000	42.7	213.0							2.3	3.5	-	-	-	-	-

Ventilated motor model with "A" winding (400 V AC)	Stall torque	Stall peak torque	Rated speed	Stall current	Peak current	Drive Mp / Motor Mo										ACSD / MCS		
						AXD										04H	08H	16H
	Mo	Mp	nN	Io	Ip	1.08	1.15	1.25	1.35	2.50	2.75	3.100	3.150					
FXM53.12A.□□.□01	17.8	59	1200	4.2	14.0		3.3	-	-	-	-	-	-	-	-	-		
FXM54.12A.□□.□01	22.2	74	1200	5.3	17.6		2.8	3.3	-	-	-	-	-	-	-	-		
FXM55.12A.□□.□01	25.9	86	1200	6.1	20.0		2.4	3.3	-	-	-	-	-	-	-	-		
FXM73.12A.□□.□01	31.2	104	1200	7.4	25.0		2.0	3.3	-	-	-	-	-	-	-	-		
FXM74.12A.□□.□01	40.9	135	1200	9.8	32.0		2.5	3.3	-	-	-	-	-	-	-	-		
FXM75.12A.□□.□01	50.4	165	1200	12.0	39.0			2.0	2.9	3.2	-	-	-	-	-	-		
FXM76.12A.□□.□01	59.5	195	1200	14.1	46.0				2.4	3.2	-	-	-	-	-	-		
FXM77.12A.□□.□01	68.4	225	1200	16.6	55.0				2.1	3.0	3.2	-	-	-	-	-		
FXM78.12A.□□.□01	76.6	255	1200	19.0	63.0					2.6	3.3	-	-	-	-	-		
FXM53.20A.□□.□01	17.8	59	2000	7.0	23.0		2.1	3.3	-	-	-	-	-	-	-	-		
FXM54.20A.□□.□01	22.2	74	2000	8.9	30.0			2.8	3.3	-	-	-	-	-	-	-		
FXM55.20A.□□.□01	25.9	86	2000	10.1	33.0			2.5	3.3	-	-	-	-	-	-	-		
FXM73.20A.□□.□01	31.2	104	2000	12.3	41.0				2.0	2.8	3.3	-	-	-	-	-		
FXM74.20A.□□.□01	40.9	135	2000	16.5	55.0				2.1	3.0	3.3	-	-	-	-	-		
FXM75.20A.□□.□01	50.4	165	2000	20.0	65.0					2.5	3.2	-	-	-	-	-		
FXM76.20A.□□.□01	59.5	195	2000	23.5	77.0					2.1	3.1	3.2	-	-	-	-		
FXM77.20A.□□.□01	68.4	225	2000	26.8	88.0						2.8	3.2	-	-	-	-		
FXM78.20A.□□.□01	76.6	255	2000	31.0	103.0						2.4	3.2	3.3	-	-	-		
FXM53.30A.□□.□01	17.8	59	3000	10.6	35.0			2.3	3.3	-	-	-	-	-	-	-		
FXM54.30A.□□.□01	22.2	74	3000	13.1	44.0				2.6	3.3	-	-	-	-	-	-		
FXM55.30A.□□.□01	25.9	86	3000	15.4	51.0				2.3	3.2	3.3	-	-	-	-	-		
FXM73.30A.□□.□01	31.2	104	3000	18.5	62.0					2.7	3.3	-	-	-	-	-		
FXM74.30A.□□.□01	40.9	135	3000	24.3	80.0					2.0	3.1	3.3	-	-	-	-		
FXM75.30A.□□.□01	50.4	165	3000	29.9	98.0						2.1	3.2	-	-	-	-		
FXM76.30A.□□.□01	59.5	195	3000	35.3	116.0						2.1	2.8	3.2	-	-	-		
FXM77.30A.□□.□01	68.4	225	3000	43.5	143.0							2.3	3.2	-	-	-		
FXM78.30A.□□.□01	76.6	255	3000	42.6	142.0							2.3	3.3	-	-	-		
FXM53.40A.□□.□01	17.8	59	4000	14.0	46.0				3.1	3.3	-	-	-	-	-	-		
FXM54.40A.□□.□01	22.2	74	4000	17.7	59.0					2.9	3.3	-	-	-	-	-		
FXM55.40A.□□.□01	25.9	86	4000	21.1	70.0						2.3	3.3	-	-	-	-		
FXM73.40A.□□.□01	31.2	104	4000	24.7	82.0					2.0	3.1	3.3	-	-	-	-		
FXM74.40A.□□.□01	40.9	135	4000	33.1	109.0						2.2	2.9	3.3	-	-	-		
FXM75.40A.□□.□01	50.4	165	4000	39.9	131.0							2.5	3.2	-	-	-		
FXM76.40A.□□.□01	59.5	195	4000	48.2	158.0							2.0	3.0	-	-	-		
FXM77.40A.□□.□01	68.4	225	4000	55.0	181.0									2.6	-	-		
FXM78.40A.□□.□01	76.6	255	4000	63.9	213.0									2.3	-	-		

		ACSD / MCS			
		05L	10L	20L	30L
Rated current	In (Arms)	2.5	5.0	10.0	15.0
Peak current	I _p , 0.5 s (Arms)	5.0	10.0	20.0	30.0

Non-ventilated motor model with "F" winding (220 V AC)	Stall torque	Stall peak torque	Rated speed	Stall current	Peak current	Drive Mp / Motor Mo			
						ACSD / MCS			
	Mo	Mp	nN	Io	Ip	05L	10L	20L	30L
FXM55.12F.□□.□00	17.3	86	1200	9.1	45.0			2.1	3.2
FXM73.12F.□□.□00	20.8	104	1200	10.7	54.0				2.7
FXM74.12F.□□.□00	27.3	135	1200	13.5	67.0				2.1
FXM75.12F.□□.□00	33.6	165	1200	17.1	85.0	-	-	-	-
FXM14.20F.□□.□00	4.1	20	2000	3.5	17.2		2.9	4.8	-
FXM31.20F.□□.□00	2.6	13	2000	2.2	11.0	2.3	4.6	5.0	-
FXM32.20F.□□.□00	5.1	25	2000	4.3	22.0		2.3	4.7	4.9
FXM33.20F.□□.□00	7.3	36	2000	6.3	31.0			3.2	4.9
FXM34.20F.□□.□00	9.3	46	2000	7.6	38.0			2.5	3.8
FXM53.20F.□□.□00	11.9	59	2000	9.9	49.0			2.0	3.0
FXM54.20F.□□.□00	14.8	74	2000	12.7	64.0				2.4
FXM55.20F.□□.□00	17.3	86	2000	15.5	77.0	-	-	-	-
FXM53.30F.□□.□00	11.9	59	3000	14.8	73.0				2.0
FXM54.30F.□□.□00	14.8	74	3000	18.4	92.0	-	-	-	-

Non-ventilated motor model with "F" winding (220 V AC)	Stall torque	Stall peak torque	Rated speed	Stall current	Peak current	Drive Mp / Motor Mo			
	Mo	Mp	nN	Io	Ip	ACSD / MCS			
FXM11.40F.□□.□00	1.2	6	4000	2.0	10.1	2.5	5.0	-	-
FXM12.40F.□□.□00	2.3	11	4000	3.9	19.3		2.6	4.7	-
FXM13.40F.□□.□00	3.3	16	4000	5.6	28.0			3.6	4.8
FXM14.40F.□□.□00	4.1	20	4000	6.9	34.0			2.9	4.3
FXM31.40F.□□.□00	2.6	13	4000	4.4	22.0		2.3	4.6	5.0
FXM32.40F.□□.□00	5.1	25	4000	8.4	42.0			2.3	3.5
FXM33.40F.□□.□00	7.3	36	4000	12.0	60.0				2.4
FXM34.40F.□□.□00	9.3	46	4000	15.3	76.0	-	-	-	-
FXM53.40F.□□.□00	11.9	59	4000	19.7	98.0	-	-	-	-

ENCODER/DRIVE CABLES

The EEC-SP-xx cables (3x2x0.14+14x0.14+2x0.5) are indicated for FXM motor with sinusoidal SinCos Stegmann encoder, 1024 ppt. It has a 26-pin male HD, Sub-D connector at one end for connecting the drive and an EOC-12 connector at the other end to connect it to the encoder of the motor.

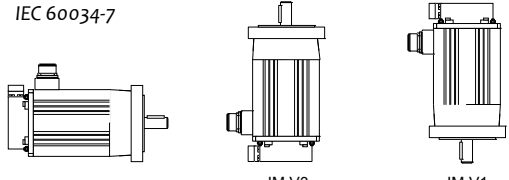
5 m	10 m	15 m	20 m	25 m	30 m	35 m	40 m	45 m
EEC-SP-05	EEC-SP-10	EEC-SP-15	EEC-SP-20	EEC-SP-25	EEC-SP-30	EEC-SP-35	EEC-SP-40	EEC-SP-45
04080020	04080021	04080022	04080023	04080024	04080060	04080061	04080062	04080063
50 m	60 m							
EEC-SP-50	EEC-SP-60							
04080064	04080065							

The IECD-xx cables (15x0.14+4x0.5) are indicated for the motor with TTL incremental encoder, 2500 ppt. It has a 26-pin male HD, Sub-D connector at one end for connecting the drive and an IOC-17 connector at the other end to connect it to the encoder of the motor.

5 m	7 m	10 m	15 m	20 m	25 m	30 m		
IECD-05	IECD-07	IECD-10	IECD-15	IECD-20	IECD-25	IECD-30		
05257001	05257007	05257002	05257003	05257004	05257005	05257006		

MOUNTING METHODS KEY

IEC 60034-7



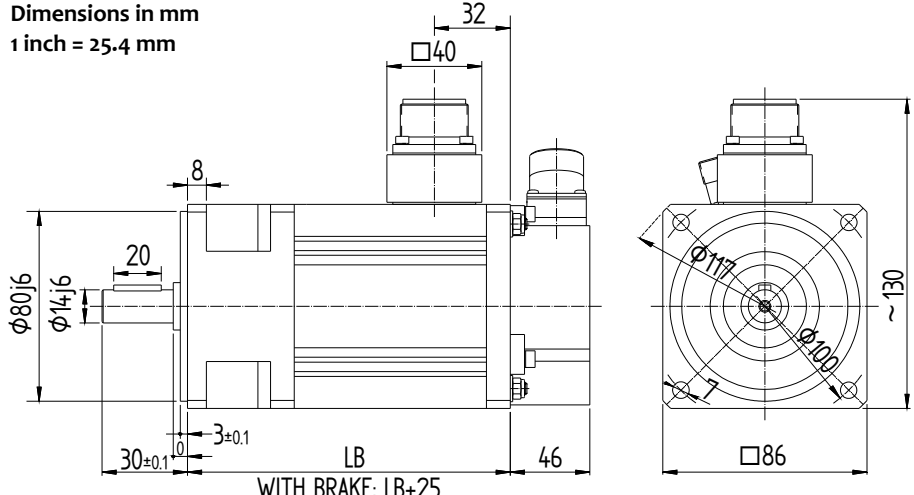
IM B5 IM V3 IM V1

Code I	Built
IM B5	Flange mounting, horizontal shaft.
IM V3	Flange mounting, vertical shaft facing up.
IM V1	Flange mounting, vertical shaft facing down.

DIMENSIONS

FXM1 series

Dimensions in mm
1 inch = 25.4 mm



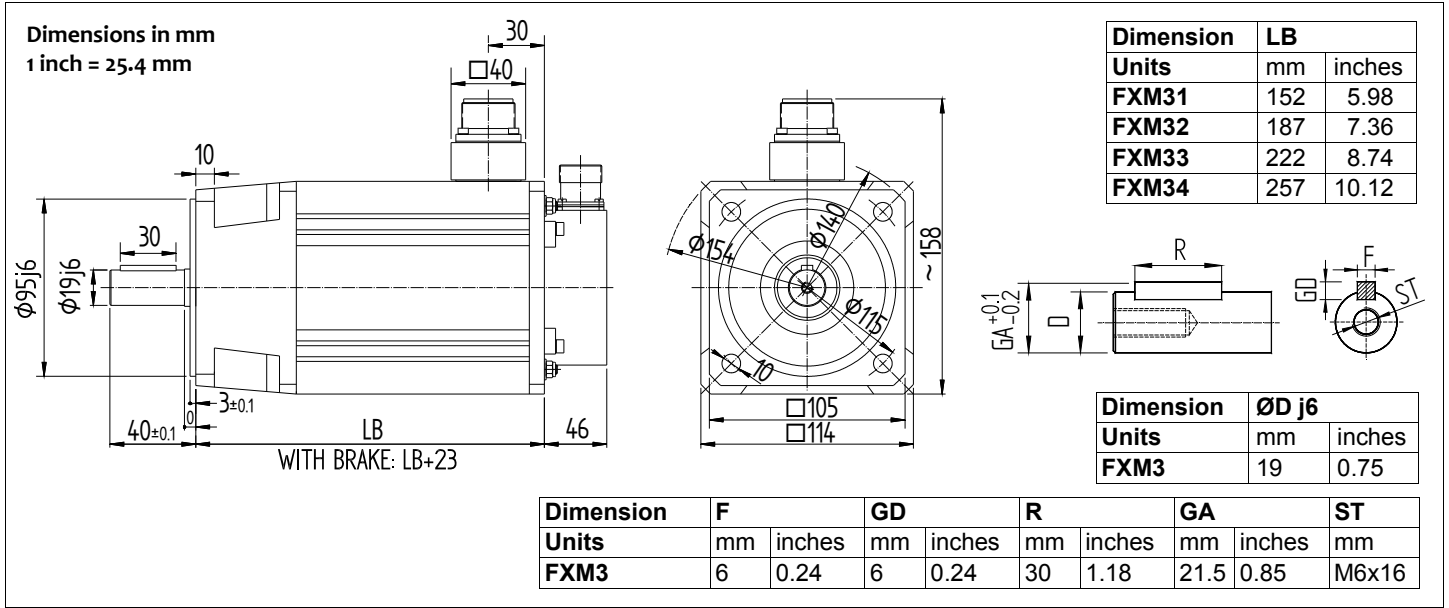
WITH BRAKE: LB+25

Dimension	LB	
Units	mm	inches
FXM11	136	5.35
FXM12	171	6.70
FXM13	206	8.11
FXM14	241	9.48

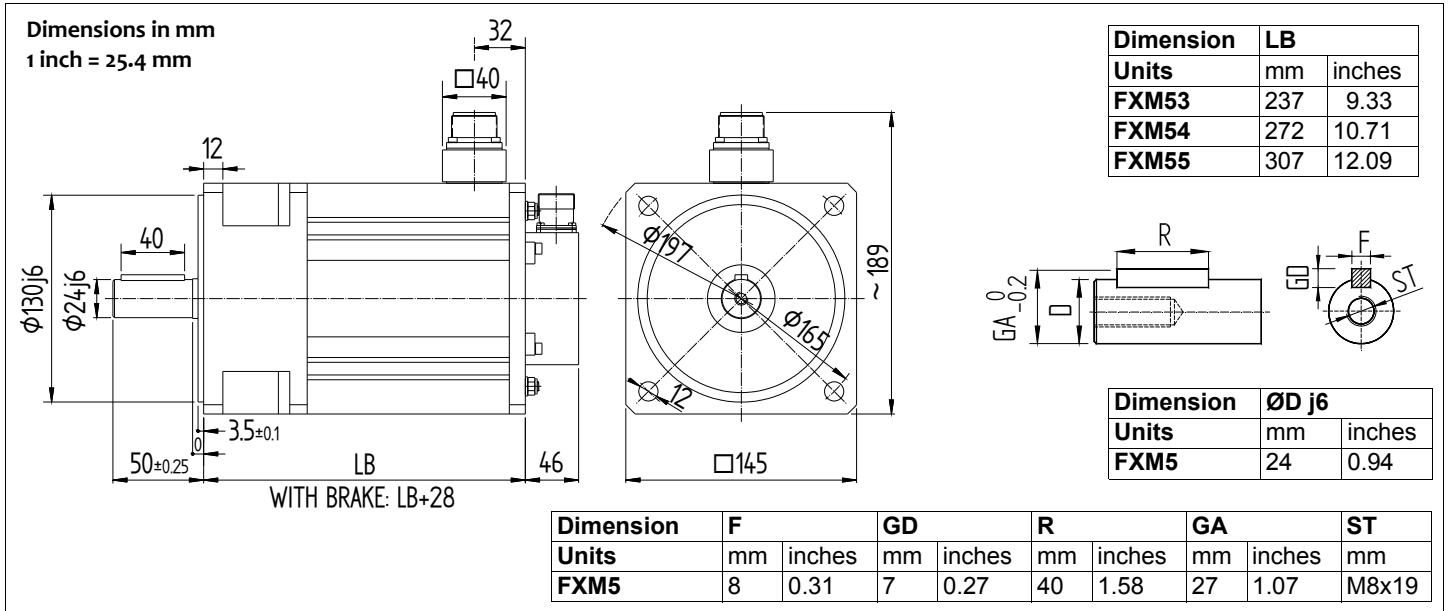
Dimension	ØD j6	
Units	mm	inches
FXM1	14	0.55

Dimension	F		GD		R		GA		ST
Units	mm	inches	mm	inches	mm	inches	mm	inches	mm
FXM1	5	0.19	5	0.19	20	0.78	16	0.62	M5x12.5

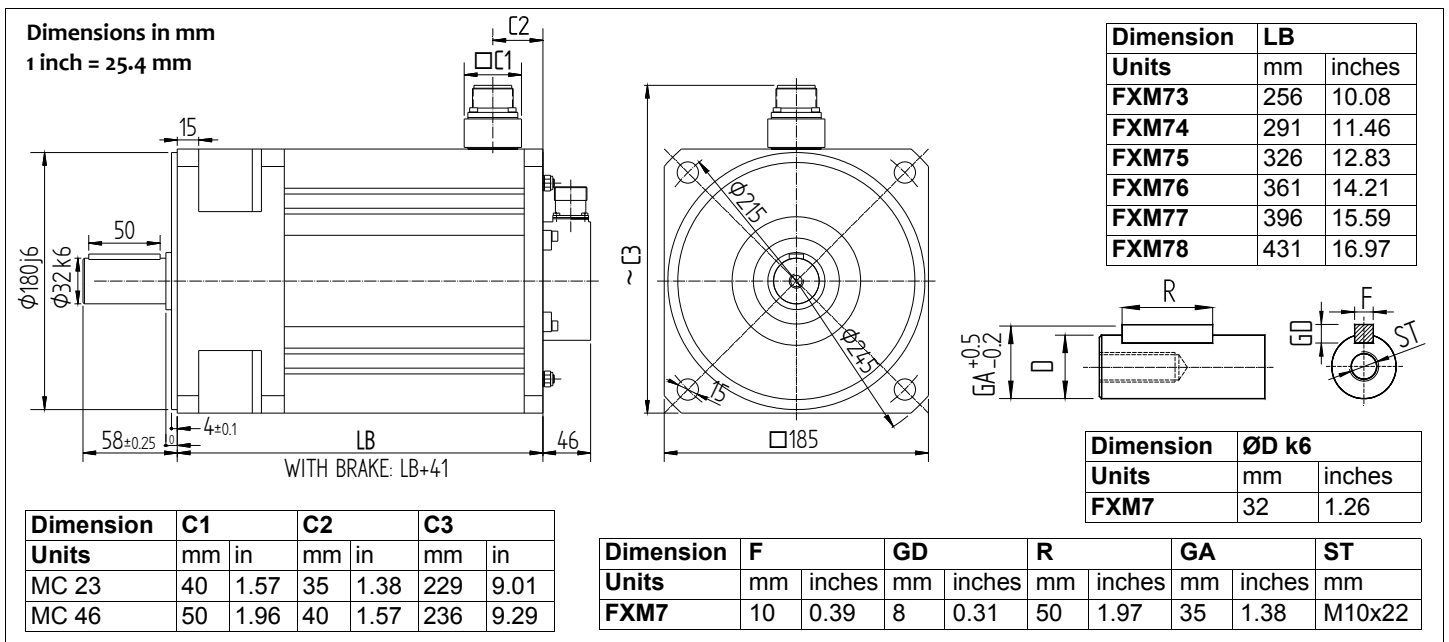
FXM3 series



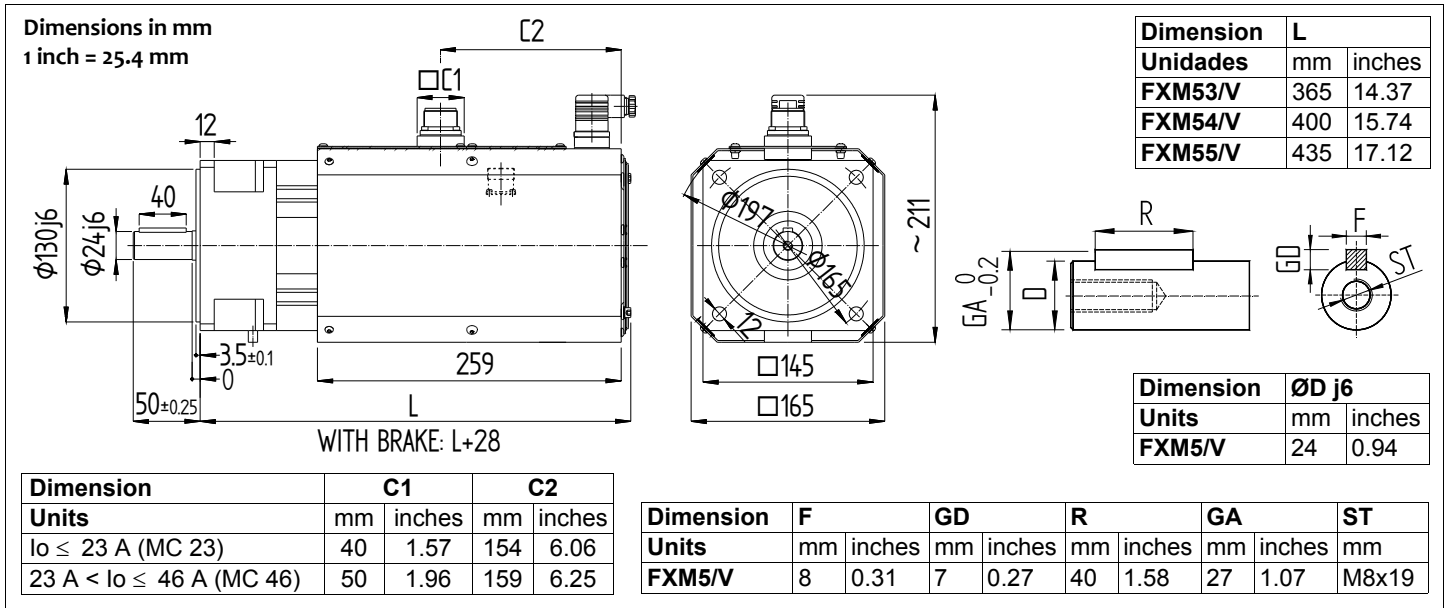
FXM5 series



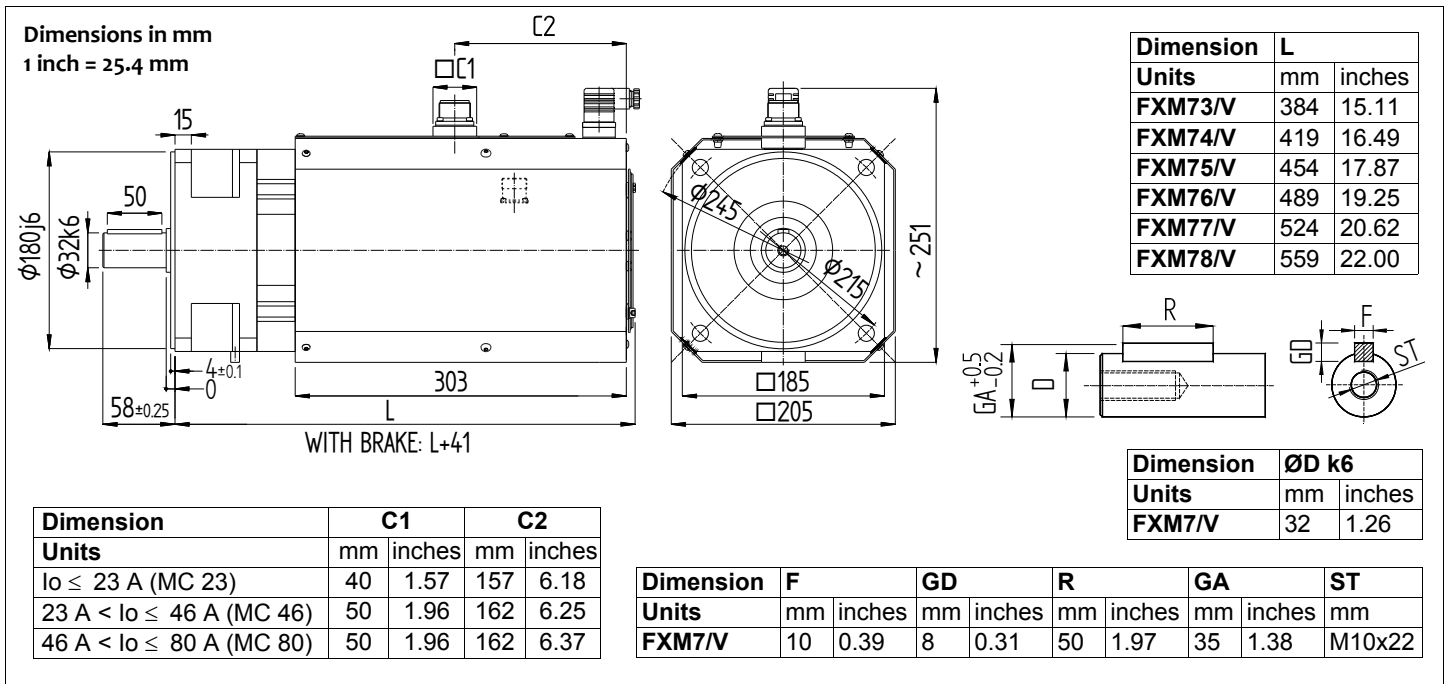
FXM7 series



FXM5/V series

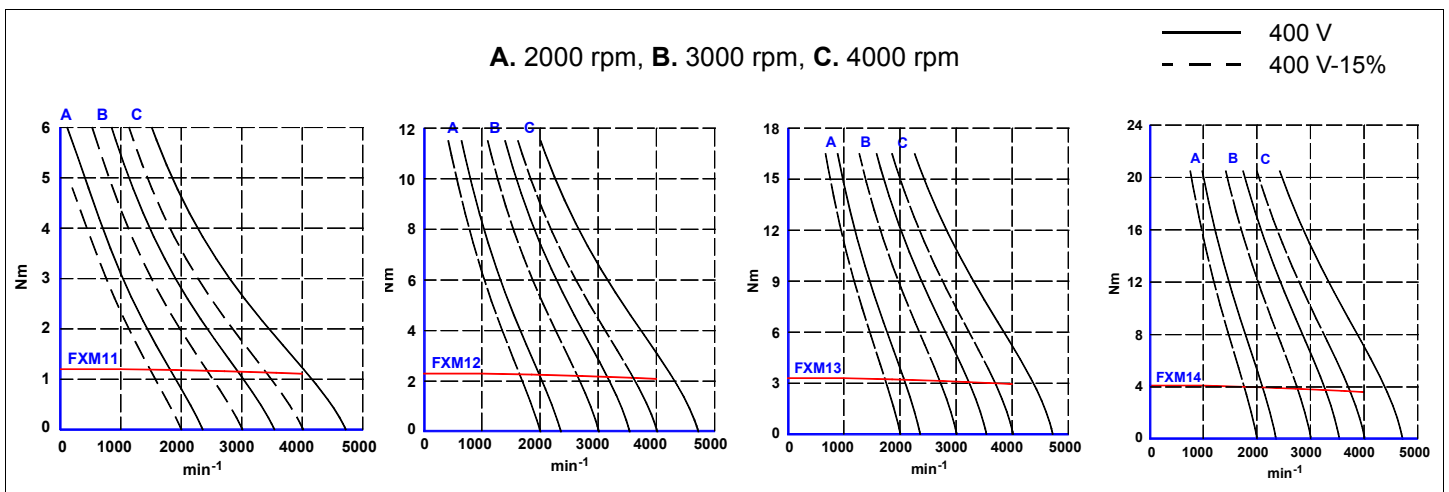


FXM7/V series



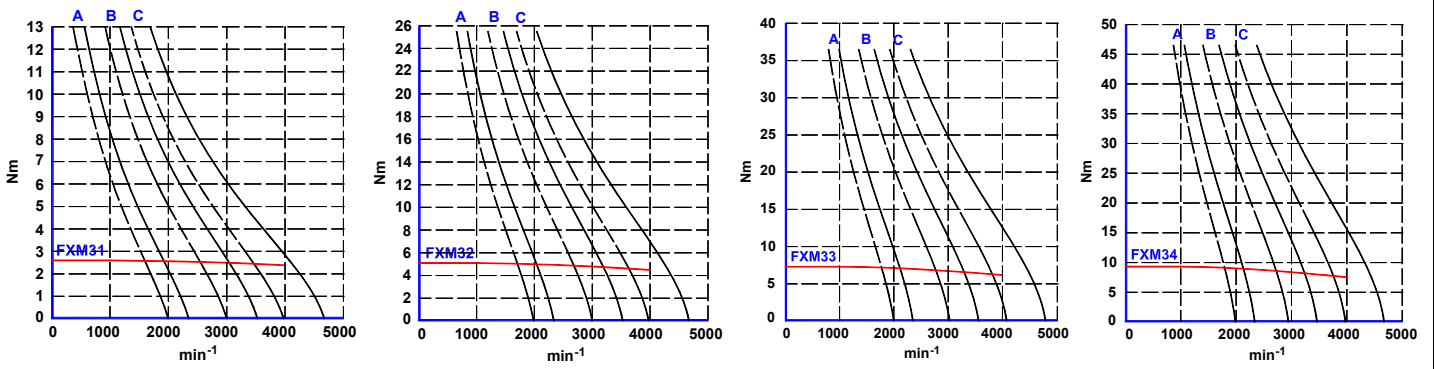
POWER/SPEED AND TORQUE/SPEED GRAPHICS

Non-ventilated FXM with "A" winding - 400 V AC -



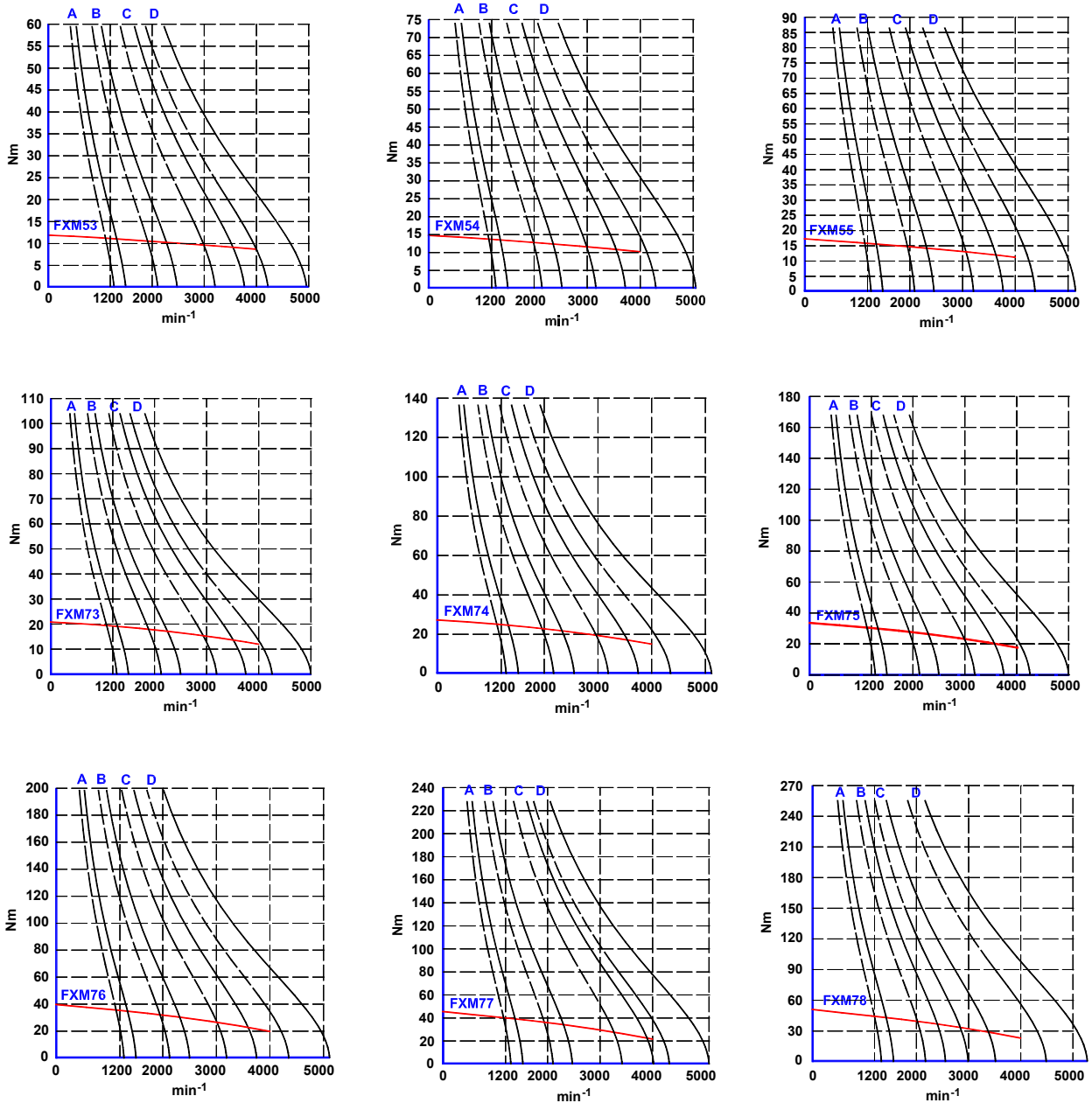
A. 2000 rpm, B. 3000 rpm, C. 4000 rpm

— 400 V
 - - - 400 V-15%

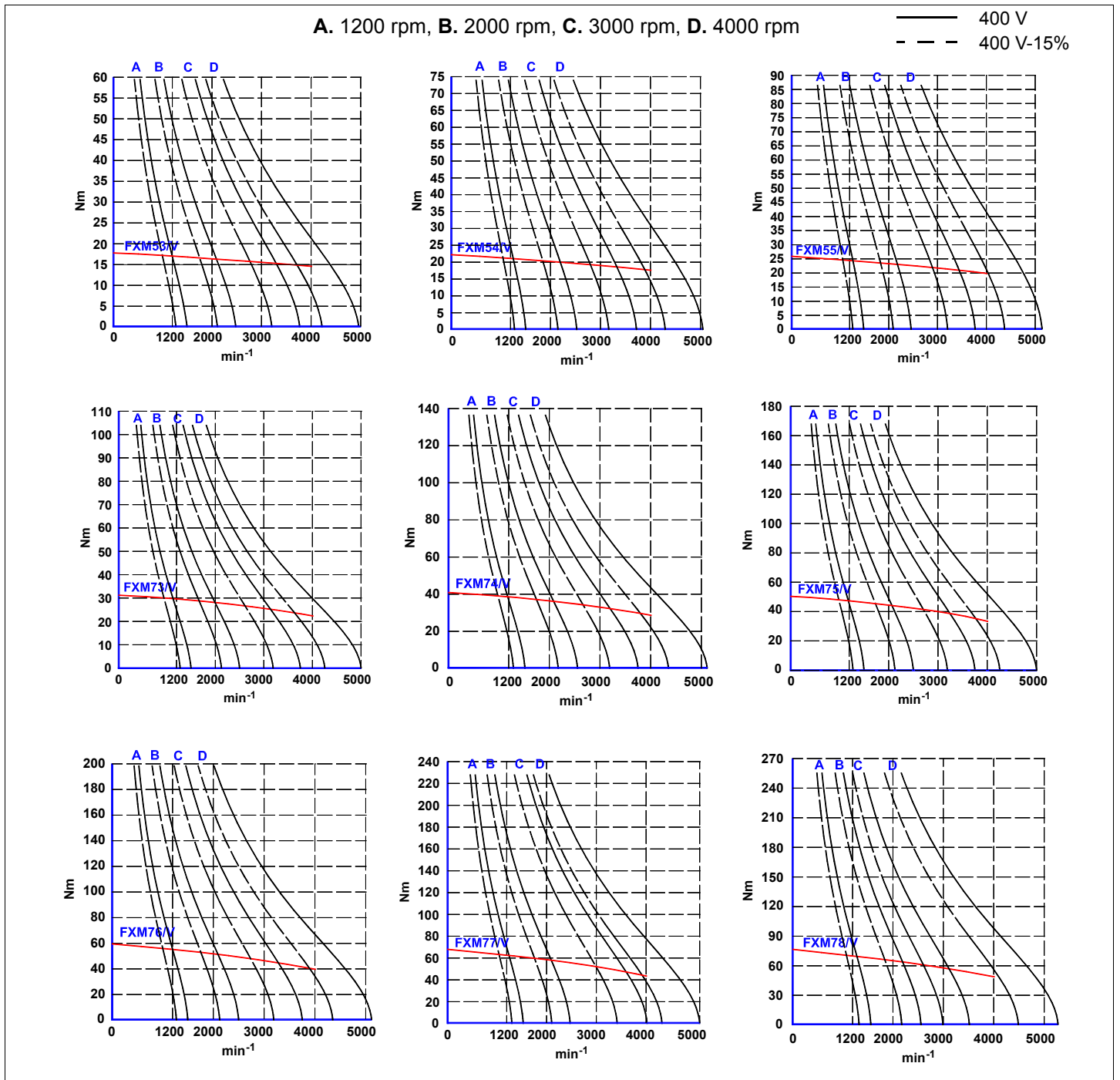


A. 1200 rpm, B. 2000 rpm, C. 3000 rpm, D. 4000 rpm

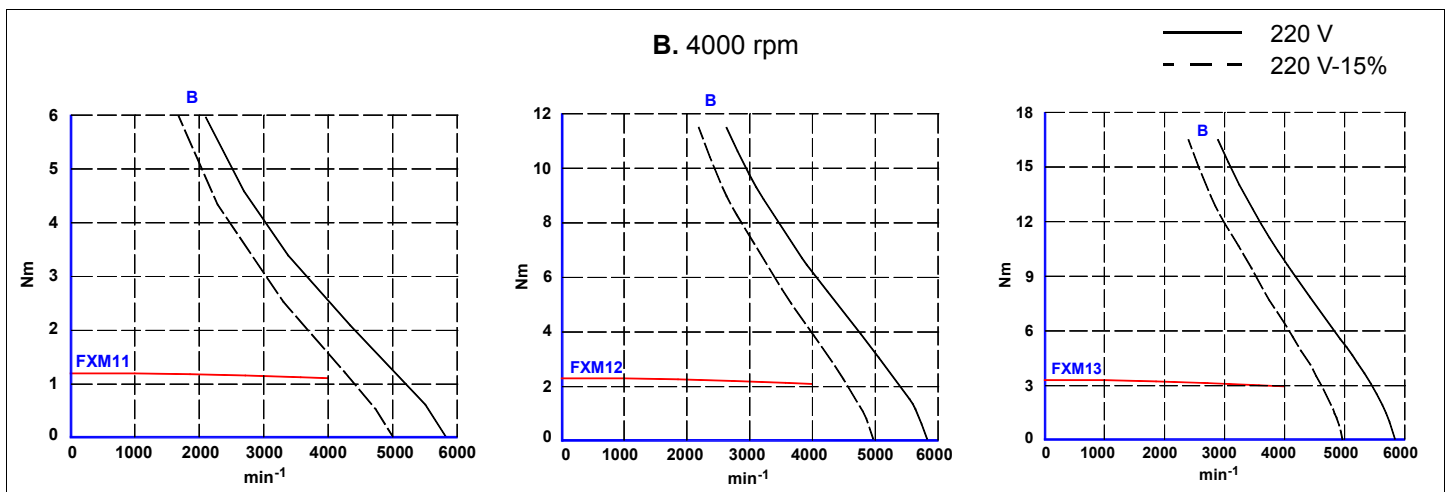
— 400 V
 - - - 400 V-15%



Ventilated FXM with "A" winding - 400 V AC -

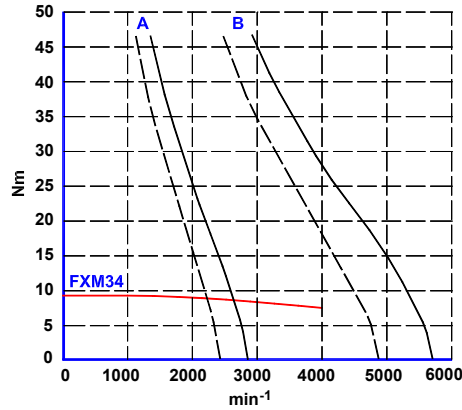
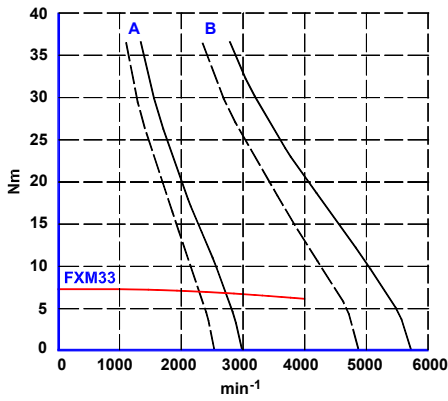
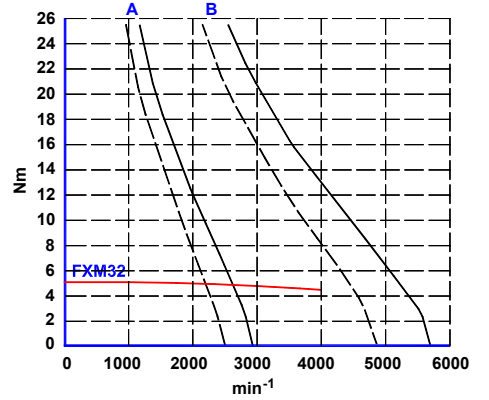
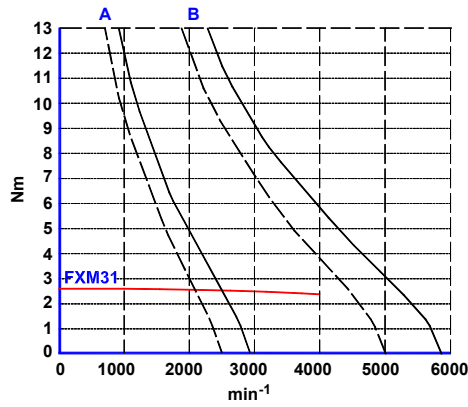
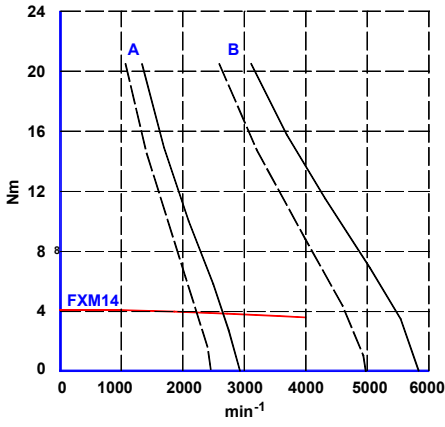


Non-ventilated FXM with "F" winding - 220 V AC -



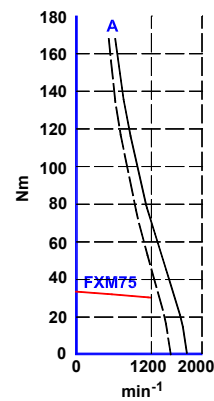
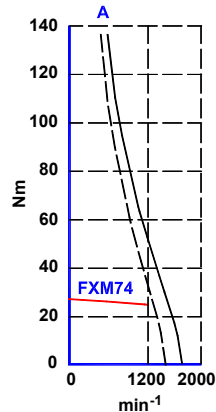
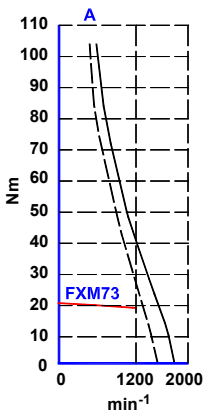
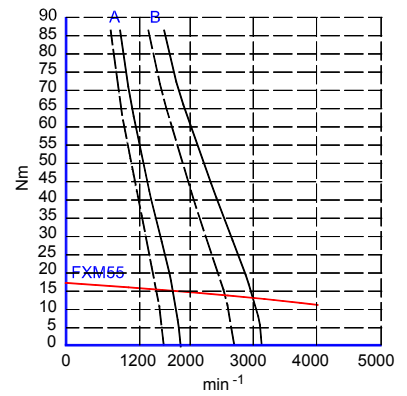
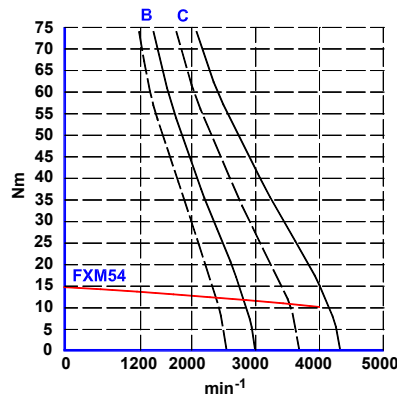
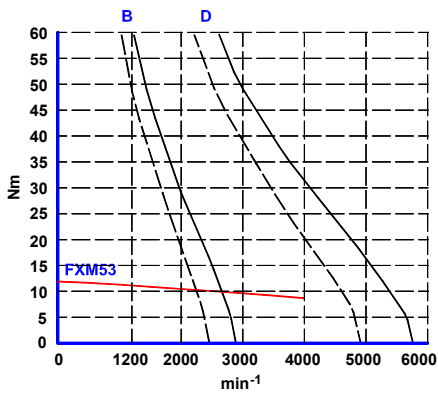
A. 2000 rpm, B. 4000 rpm

— 220 V
 - - - 220 V-15%



A. 1200 rpm, B. 2000 rpm, C. 3000 rpm, D. 4000 rpm

— 220 V
 - - - 220 V-15%



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