



Motor without brake

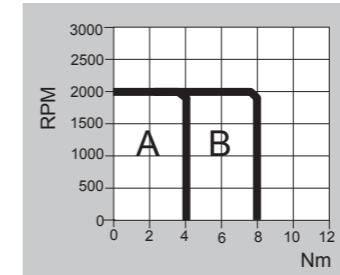


Motor with brake

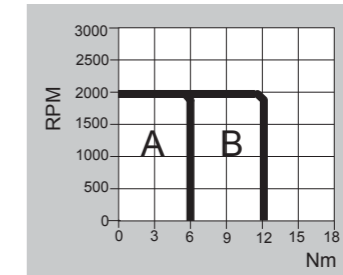
MLFB	With key Without brake	1FL5060-0AC21-0AA0	1FL5062-0AC21-0AA0	1FL5064-0AC21-0AA0	1FL5066-0AC21-0AA0												
	With key With brake	1FL5060-0AC21-0AB0	1FL5062-0AC21-0AB0	1FL5064-0AC21-0AB0	1FL5066-0AC21-0AB0												
	Without key Without brake	1FL5060-0AC21-0AG0	1FL5062-0AC21-0AG0	1FL5064-0AC21-0AG0	1FL5066-0AC21-0AG0												
	Without key With brake	1FL5060-0AC21-0AH0	1FL5062-0AC21-0AH0	1FL5064-0AC21-0AH0	1FL5066-0AC21-0AH0												
Rated power (in kW)		0.8	1.2	1.6	2.0												
Rated torque (in Nm)		4	6	7.7	10												
Rated speed (in RPM)		2000	2000	2000	2000												
Rated Current (in A)		4 A	6 A	7 A	10 A												
Rotor inertia (in kgm ²)		11.01 × 10 ⁻⁴	15.44 × 10 ⁻⁴	20.17 × 10 ⁻⁴	25.95 × 10 ⁻⁴												
Mechanical time constant (in ms)		3.660	2.789	2.710	2.071												
Max. current (in A)		8	12	14	20												
Max. torque (in Nm)		8	12	15.4	20												
Max. radial force (Fr, Fs)																	
Connector of motor winding		Terminals Number	U 2	V 3	W 4	PE 1											
Connector of encoder		Signal Number	5V 2	0V 3	A+ 4	A- 7	B+ 5	B- 8	Z+ 6	Z- 9	U+ 10	U- 13	V+ 11	V- 14	W+ 12	W- 15	PE 1
Encoder resolution (C/T)		2500 C/T															
Mechanical brake		Number	1		2		3										
		Power	24VDC (-15%~+10%)													PE	
		Parameter	Working current ≤ 0.6A; brake torque ≥ 12Nm; rotor inertia = 1.67x10 ⁻⁴ kgm ²														
Insulation class		B															
Environmental conditions		Ambient temperature: 0~40°C (operating); 5~40°C (storage; room temperature); Humidity < 90% (without condensation)															
Protection class		IP54															
Weight (in Kg)		Without brake	6.0	7.6	8.6	10.6											
		With brake	8.6	10.2	11.2	13.2											

Rated torque - speed diagram (M-n)

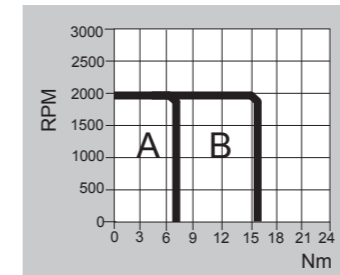
A: continual working area
B: short-term working area



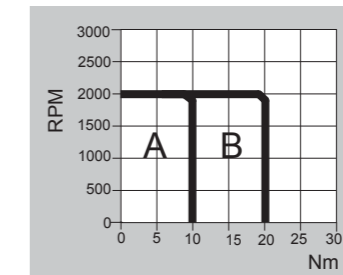
1FL5060-0AC21-0AG0
1FL5060-0AC21-0AH0
1FL5060-0AC21-0AA0
1FL5060-0AC21-0AB0



1FL5062-0AC21-0AG0
1FL5062-0AC21-0AH0
1FL5062-0AC21-0AA0
1FL5062-0AC21-0AB0

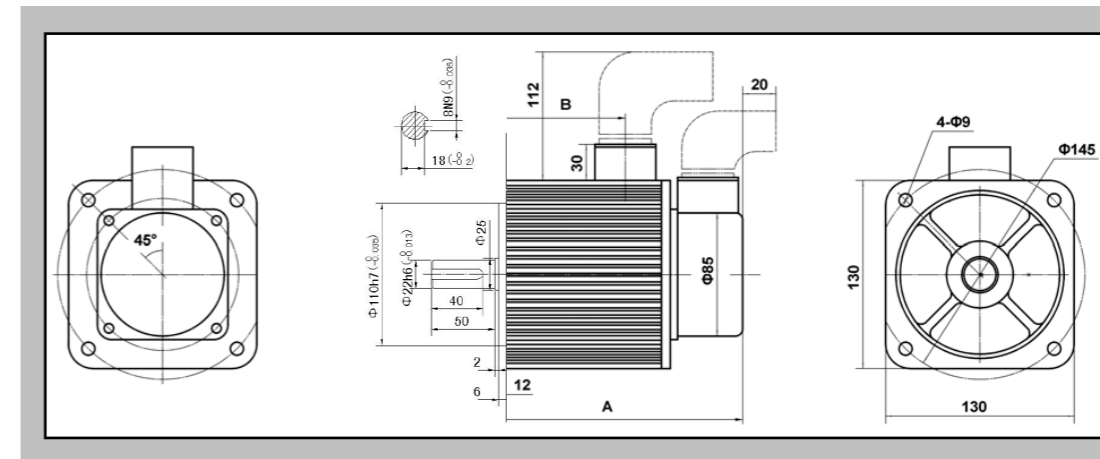


1FL5064-0AC21-0AG0
1FL5064-0AC21-0AH0
1FL5064-0AC21-0AA0
1FL5064-0AC21-0AB0



1FL5066-0AC21-0AG0
1FL5066-0AC21-0AH0
1FL5066-0AC21-0AA0
1FL5066-0AC21-0AB0

Mounting dimensions



Motor variant	A (in mm)	B (in mm)
4 Nm	163 (205)	80
6 Nm	181 (223)	98
7.7 Nm	195 (237)	112
10 Nm	219 (261)	136

NOTE: Values in brackets are the lengths of motors with brake.

Note

For motors with keys, the flat key size is as shown in the above figure.

For the key way size, refer to the national standard GB/T 1095-2003

For the flat key size, refer to the national standard GB/T 1096-2003 (key C 8X7X40)

NOTE

- Above-mentioned max. value for Fs can not be exceeded;
- No Fr should be applied to a motor with brake;
- The brake is only for holding purpose besides some occasional emergency stops;
- Do not break the cable during your installation work or machine moves. No force should be applied to the cables.

WARNING

Direct connection between the motor with a 3-phase power supply will cause damages to the motor.

WARNING

The motor can only be connected with SIEMENS SINAMICS V60 drive and relevantly designed cables, and vice versa.

DANGER

Danger of electric shock!

Voltage on motor terminals can reach 300V while the rotor is rotating.

Do shut down the motor before any electrical work. Only a qualified person is allowed to do mounting and wiring work of the motor.

No hot plugs!

Rules on electrical engineers should be strictly obeyed.