

■ Combination Data of Motor and Inverter

Here is an explanation of the settings and speed-torque characteristics when combining a brushless motor with an inverter. Set the parameters listed below.
Parameters for exhibiting the characteristics and for safe use are listed.

■ Combinations

Brushless Motor			Inverter LENZE i550
Output Power	Motor Type	Model Name	Model Name
750W	Combination type	BL2M6750CHP-□S, BL2M6750CHP-□FRS	I55AE175B1AV1107MS (Single-phase 230 V type)
	Round shaft type	BL2M6750CHP-AS	

● Enter the gear ratio in the box (□) within the model name.

■ Basic Parameter Setting

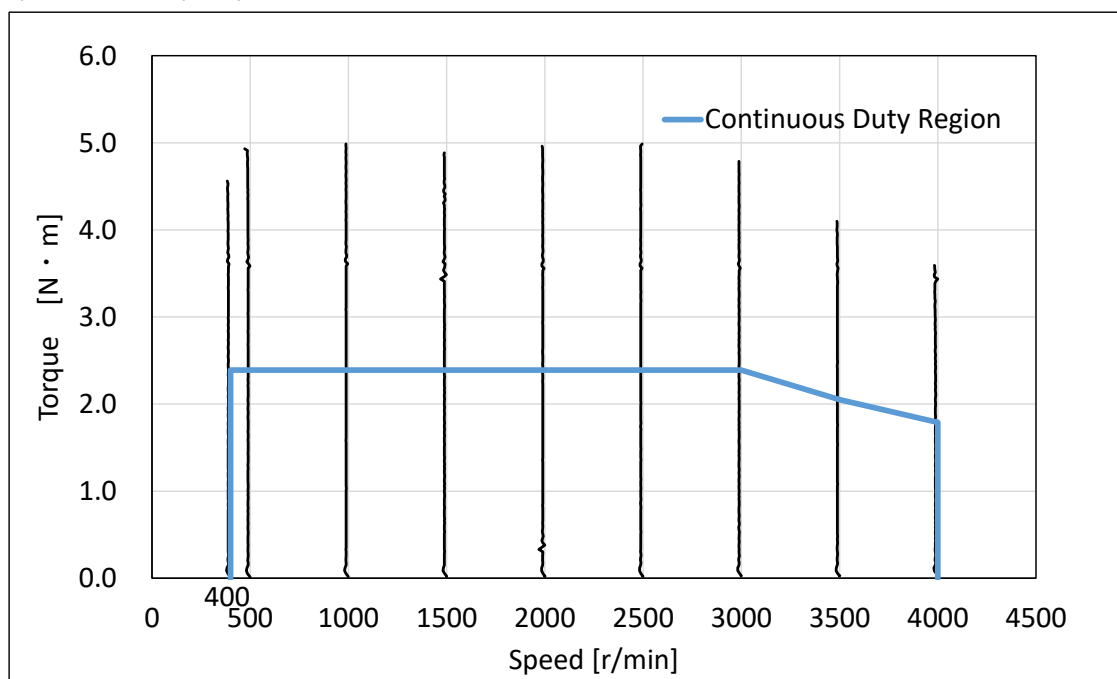
This setting assumes continuous operation of the motor (reference) and the ability to protect the motor from overheating with electronic thermal protection.

Perform auto-tuning of motor constants when combining an inverter (setting value: P327.04).

Parameter	Setting Value	Content
Max. frequency	P211.00 334	Maximum frequency (Hz)
Motor ctrl mode	P300.00 3	Motor control mode (3 : Sensorless control (SL-PSM))
Base voltage	P303.01 133	Rated(base) motor voltage (V)
Base frequency	P303.02 250	Rated(base) motor frequency (Hz)
Switching freq.	P305.00 13	Switching frequency (13 : 16kHz variable / min. Pv)
Max.load.for 60s	P308.01 150	Maximum permissible thermal motor utilisation(%)
Rated speed	P320.04 3000	Rated motor speed (r/min)
Rated frequency	P320.05 250	Rated motor frequency (Hz)
Rated power	P320.06 0.75	Rated motor power (kW)
Rated voltage	P320.07 133	Rated motor voltage (V)
Max. motor speed	P322.00 4000	Maximum motor speed (r/min)
Rated mot.curr.	P323.00 3.6	Rated motor current (A)
Max. current	P324.00 200	Maximum current of the inverter (%)
Rated mot torque	P325.00 2.39	Rated motor torque (N·m)

■ Speed – Torque Characteristics (Reference)

Characteristics when combined with an inverter whose parameter settings have been changed. (Motor output shaft)
Speed: Drive frequency x 12 [r/min]



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