

■ 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 SIEMENS G120
Output Power	Motor Type	Model Name	Model Name
750W	Combination type	BL2M6750CHP-□S、BL2M6750CHP-□FRS	6SL3210-1PB13-8AL0 (Single/Three-phase 200-240 V type)
	Round shaft type	BL2M6750CHP-AS	

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

■ Basic Parameter Setting

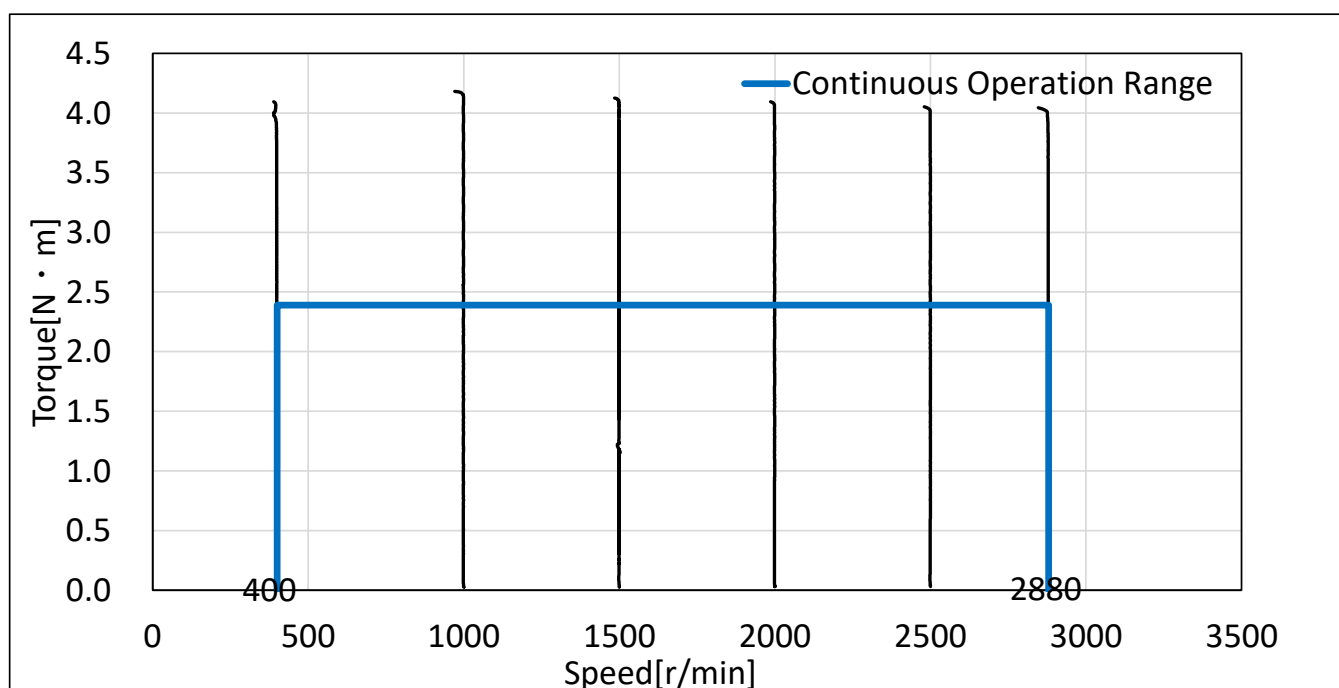
This setting assumes continuous operation of the motor (reference) and the ability to protect the motor from overheating with electronic thermal protection.

Perform auto-tuning of motor constants when combining an inverter (p1900 : 1).

Parameter	Setting Value	Content
Appl_class	p0096 2	Application class (2: Dynamic Drive Control)
Mot type sel	p0300 2	Motor type selection (2: Synchronous motor)
Mot U_rated	p0304 124	Rated motor voltage (V)
Mot I_rated	p0305 3.6	Rated motor current (A)
Mot P_rated	p0307 0.75	Rated motor power (kW)
Mot f_rated	p0310 250	Rated motor frequency (Hz)
Mot n_rated	p0311 3000.0	Rated motor speed (Hz)
Current limit	p0640 5.40	Rated motor current × 1.5 (A)

■ Speed – Torque Characteristics (Reference)

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



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