REFERENCE DATA
No.DA-51516

■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 Rockwell Automation PowerFlex525
Output Power	Motor Type	Model Name	Model Name
750 W	Combination type	BL2M6750CHP-□S, BL2M6750CHP-□FRS	25B-V4P8N104 (Single-phase 100 V type)
	Round shaft type	BL2M6750CHP-AS	

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

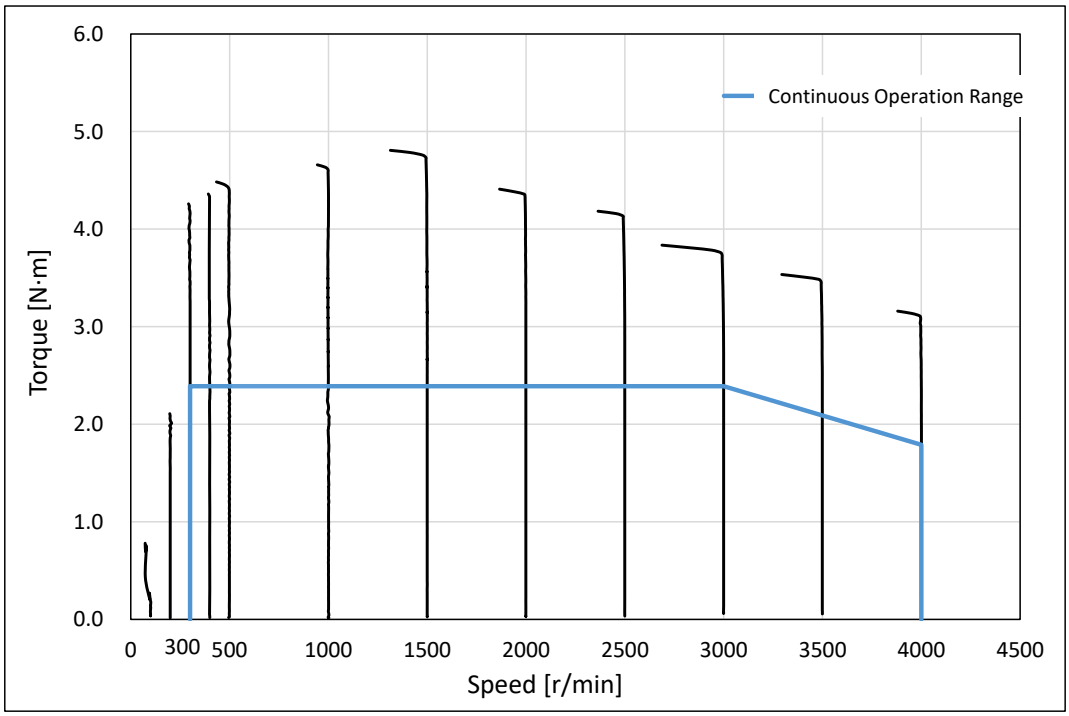
■Basic Parameter Setting

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: 1).

Parameter		Setting Value	Content
Motor rated voltage	P031	133	Rated voltage (V)
Motor rated frequency	P032	250	Frequency at rated speed (Hz)
Electronic thermal	P033	5.4	Rated currentx1.5 (A)
Rated motor current setting	P034	3.6	Rated current (A)
Number of motor poles	P035	10	Number of magnet poles
Motor rated speed	P036	3000	Rated speed (r/min)
Motor capacity	P037	0.75	Rated output power (kW)
Control method selection	P039	1	Sensorless vector control
Maximum frequency	P044	334	Maximum value of output frequency (Hz)

■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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