

■ Combination Data of Motor and Inverter

Here is an explanation of the settings and speed-torque characteristics when combining the 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 Schneider Electric Altivar Machine ATV320
Output Power	Model Name	Model Name
750W	BL2M6750CHP-■	ATV320U07M3C (Three-phase 200 V type)

● A character indicating the shaft type is specified where the box ■ is located in the product name.

■ Basic Parameter Setting

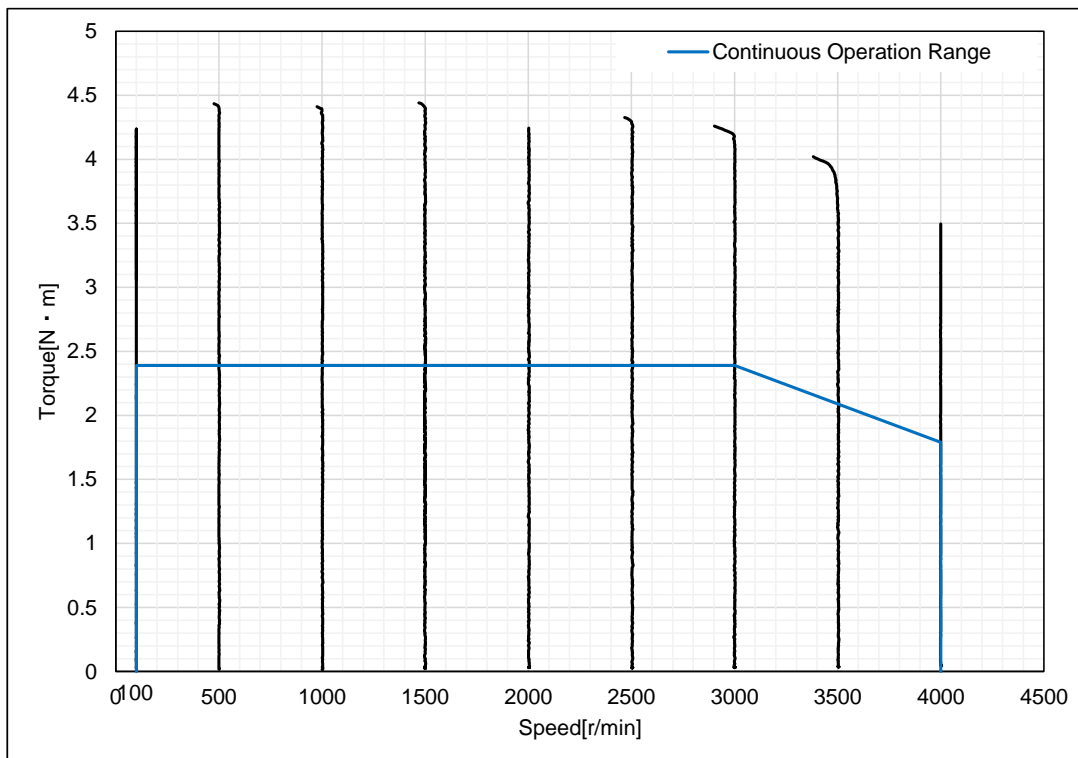
This setting assumes continuous operation of the motor (reference) and the ability to protect the motor from overheating with electronic thermal protection.

Parameter		Setpoint	Content
ACCESS LEVEL	LAC	Epr	Access level : Expert
Motor control type	Ctt	Syn	Synchronous permanent magnet motor control
Switching freq.	SFr	8.0	Switching frequency setting (kHz)
Nominal I sync.	nCrS	3.6	Rated synchronous motor current (A)
Pole pairs	PPnS	5	Number of pairs of poles
Nom motor spdsync	nSPS	3000	Rated motor speed (rpm)
Motor torque	tqS	2.4	Rated motor torque (N·m)
Auto tuning	tUn	Yes	Perform Auto tuning (press the ENT key for 2 s)
Syn.EMF constant	PHS	37.0	Synchronous motor EMF constant (mV/rpm)
Nominal freq sync.	FrSS	250	Nominal motor frequency (Hz)
Max frequency	tFr	333.4	Maximum frequency (Hz)
High speed	HSP	333.4	Maximum frequency (Hz)

■ Speed – Torque Characteristics (Reference)

This is the characteristic when the above parameters are set.

Speed : Drive frequency × 12[r/min]



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