

## Is it possible to use L7S(N) servo drive by supplying single phase AC 220V ?

- Basically, Our L7N drive series are designed for 3phase AC 220V (100W~3.5kW) and 3phase AC 400V (1.0kW ~ 3.5kW)
- If you use L7N drive with Single phase AC220V, Max. Torque – Max. Speed can be changed.
- With our R&D calculation, there will be 2 kinds of option as follows
  - ① Use bigger size of drive than STD matching
  - ② Decrease Max. Load from 300% to lower (See below table)

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Drive (L7 Series)		Unit	100W	200w	400W	800W	1kW	2kW	3.5kW
Rated Current		[Arms]	1.4	1.7	3.0	5.2	6.75	13.5	16.7
Voltage Regulation at 300% of Max. Load	3 Phase	[%]	2.9	5.4	7.8	13.0	12.8	18.5	23.0
	Single - Phase	[%]	9.11	16.53	23.94	40.14	39.39	57.04	71.07
Available Max. Load with Single Phase		[%]	300	300	300	250	250	180	150
Voltage Regulation at available Max. Load with Single Phase		[%]	9.11	16.53	23.94	30.61	30.12	30.82	30.52

- ※ When the voltage regulation is less than 30%, the motor can be controlled by servo drive. so, we limit the Max. load rate for 800W(250%), 1kW(250%), 2kW(180%) and 3kW(150%) under single phase AC 220V condition