

3.3 General Technical Data

Rating table

Maximum continuous shaft ratings

Model		kW at 460V	HP at 460V	HP at 500V	100% Armature Current DC Amps	100% Field Amps	Dimensions mm (force vented = fv) W x H x D
PL 2 quadrant PLX 4 quadrant							
*PL and PLX	5	5	6.6	7.5	12	8	216 x 289 x 174
*PL and PLX	10	10	13.3	15	24	8	216 x 289 x 174
*PL and PLX	15	15	20	20	36	8	216 x 289 x 174
*PL and PLX	20	20	26.6	30	51	8	216 x 289 x 174
*PL and PLX	30	30	40	40	72	8	216 x 289 x 174 fv
*PL and PLX	40	40	53.3	60	99	8	216 x 289 x 174 fv
*PL and PLX	50	50	66.6	75	123	8	216 x 289 x 174 fv
PL and PLX	65	65	90	100	155	16	216 x 378 x 218 fv
PL and PLX	85	85	115	125	205	16	216 x 378 x 218 fv
PL and PLX	115	115	155	160	270	16	216 x 378 x 218 fv
*PL and PLX	145	145	190	200	330	16	216 x 378 x 218 fv
PL and PLX	185	185	250	270	430	32 or 50	216 x 378 x 294 fv
*PL and PLX	225	225	300	330	530	32 or 50	216 x 378 x 294 fv
PL only	265	265	350	400	630	32 or 50	216 x 378 x 294 fv

3.3.1 Regenerative stopping with PL models

* Starred models: (*PL) 2 Quadrant models have electronic regenerative stopping.
See 6.5.2 STOP MODE RAMP / Stop ramp time PIN 56.

3.3.2 Supply voltages required for all models

The supplies provided must be suitable for the motor employed

Main 3 phase 50 - 60Hz

Any supply from 12 to 480V AC +/- 10% for armature power.

Auxiliary 3 phase 50 - 60Hz

Any supply from 100 to 480V AC +/- 10% for field power.

Control 1 phase 50 - 60Hz

Any supply from 110 to 240V AC +/- 10% 50VA control power

PL/X 185/225/265 models also need a 50VA 110V 50/60Hz ac fan supply

Note. The 3 phase Field and Armature supplies are input through separate terminals and may be at different levels if desired. See 14.9.1 Wiring diagram for AC supply to L1/2/3 different to EL1/2/3. (E.g. Low voltage field)
They must however, be in phase

OUTPUT VOLTAGE RANGE

Armature PL 0 to +1.1 times AC supply. PLX 0 to +/- 1.1 times AC supply.

Field 0 to 0.9 times AC supply on auxiliary terminals. (EL1, EL2, EL3)

OUTPUT CURRENT RANGE

Armature 0 to 100% continuous. 150% for 25 seconds +/- for PLX

Field programmable minimum to 100% continuous with fail alarm.

Note. There is a factory option to allow high inductance loads to be driven by the armature output.