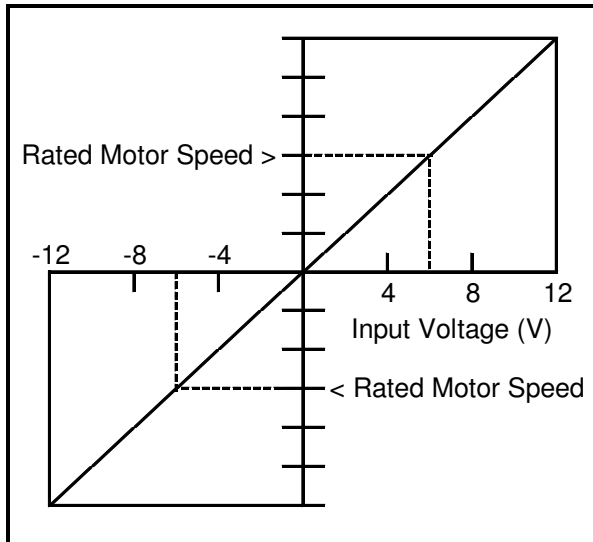


The configuration of Parameter Pn300 is the same for Linear Motor applications as it is for Rotary Motor applications. The motor speed is controlled in proportion to the input voltage between V-REF (CN1-5) and SG (CN1-6). This is depicted in the graph below:



Setting Examples:

Pn300 = 600: This means that 6V input is equivalent to rated motor speed output. This is the default setting, the table below depicts SGLFW-50A200A motor operation with various voltage inputs:

| Speed Reference Input | Travel Direction | Motor Speed | SGLFW-50A200A Linear Motor |
|-----------------------|------------------|-------------------------|----------------------------|
| +6V | Forward | Rated motor speed | 2000 mm/s |
| +1.5V | Forward | 1/4 rated motor speed | 500 mm/s |
| +12V | Forward | Twice rated motor speed | 4000 mm/s |
| -3V | Reverse | 1/2 rated motor speed | 1000 mm/s |
| -9V | Reverse | 1 1/2 rated motor speed | 3000 mm/s |

Parameter Pn300 can be used to change the voltage input range. Pn300 is adjustable from 150 to 3000 (0.01V/Rated Motor Speed). Adjust Pn300 according to the output voltage specifications of the host controller. The rated speed for the various Yaskawa Linear Motor varieties are listed below:

| Rated Speed | |
|---------------|-----|
| Model | m/s |
| SGLGW-30A050A | 1.5 |
| SGLGW-30A080A | 1.5 |
| SGLGW-40A140B | 1.5 |
| SGLGW-40A253B | 1.5 |
| SGLGW-40A365B | 1.5 |
| SGLGW-60A140B | 1.5 |
| SGLGW-60A253B | 1.5 |
| SGLGW-60A365B | 1.5 |
| SGLGW-90A200B | 1.5 |
| SGLGW-90A370B | 1.5 |
| SGLGW-90A535B | 1.5 |

| Rated Speed | |
|---------------|-----|
| Model | m/s |
| SGLFW-20A090A | 5.0 |
| SGLFW-20A120A | 3.5 |
| SGLFW-35A120A | 2.5 |
| SGLFW-35A230A | 3.0 |
| SGLFW-50A200A | 2.0 |
| SGLFW-50A380A | 2.0 |
| SGLFW-1ZA200A | 2.0 |
| SGLFW-1ZA380A | 3.0 |

| Rated Speed | |
|---------------|-----|
| Model | m/s |
| SGLTW-20A170A | 3.0 |
| SGLTW-20A320A | 3.0 |
| SGLTW-20A460A | 3.0 |
| SGLTW-35A170A | 2.5 |
| SGLTW-35A320A | 2.5 |
| SGLTW-35A460A | 2.5 |
| SGLTW-40A400A | 2.5 |
| SGLTW-40A600A | 2.5 |
| SGLTW-80A400A | 2.5 |
| SGLTW-80A600A | 2.5 |

For further information regarding adjustment of parameter Pn300, refer to the Sigma II Series Servo System User's Manual [YEA-SIA-S800-32.2] section 5.2.1.