

## ELWOOD | SX-Series Servo Motors

Siemens Sinamics S120 Drive Feedback

October 2019 | jh

### **Elwood SX-Series Model Number Feedback Definition for Siemens Systems:**

Winding voltage for SX-Series motors is defined by the character in the 9<sup>th</sup> position of the model number as shown below by the "◇".

Feedback type for SX-Series motors is defined by the character in the 10<sup>th</sup> position of the model number as shown below by the "□". The options represented below show feedback types for Siemens Sinamics S120 drives. The options Represented on the table below do not represent all the options available.

Model: M4xx-xxxx-◇□xx

Where ◇=

8, B or D: Windings for 230vac/325VDC Bus, 8 or D = Hazloc Class I/Zone 1, B = Class II/Zone 21

9, C or E: Windings for 460vac/650VDC Bus, 9 or E = Hazloc Class I/Zone 1, C = Class II/Zone 21

And where □ =

5: Resolver, Tamagawa

Incremental, 2-pole (1-pole pair)

0.5:1 transformation ratio

**Siemens interface module required: SMC10**

- Reference/commutation cycle required at power on

D: EnDat, Heidenhain EQN425 (Typical feedback for Siemens drives.)

Absolute, Multi-turn (4096 revs)

1Vpp Sin/Cos (incremental channel, 512cycles/rev)

**Siemens interface module required: SMC20**

S: Hiperface, Sick/Stegmann SRS50 (Typical feedback for Rockwell drives)

Absolute, Single-turn

1Vpp Sin/Cos (incremental channel, 1024cycles/rev)

**Siemens interface module required: SMC20\*\***

**\*\* Incremental signals only, no absolute functionality with, and reference/commutation cycle required at power of Siemens drives.**

T: Hiperface, Sick/Stegmann SRM50 (Typical feedback for Rockwell drives)

Absolute, Multi-turn (4096 revs)

1Vpp Sin/Cos (incremental channel, 1024cycles/rev)

**Siemens interface module required: SMC20\*\***

**\*\* Incremental signals only, no absolute functionality with, and reference/commutation cycle required at power of Siemens drives.**

**\*\* NOTE: Drive Cliq, Heidenhain (Native feedback for Siemens drives)  
(Custom option available)**

Absolute, Multi-turn (4096 revs)

Digital Interface

**Siemens interface module not required, native support**