Extended S-Curve

V7 Large HP

CIMR-V7AMXXXX-031

1. Outline

Software No. ~~VSP018050~~ VSP018051 <1>
Base Software: VSP010103 (for 5.5kW, 7.5kW)

Extend the setting range of the S-Curve time selection (n023).
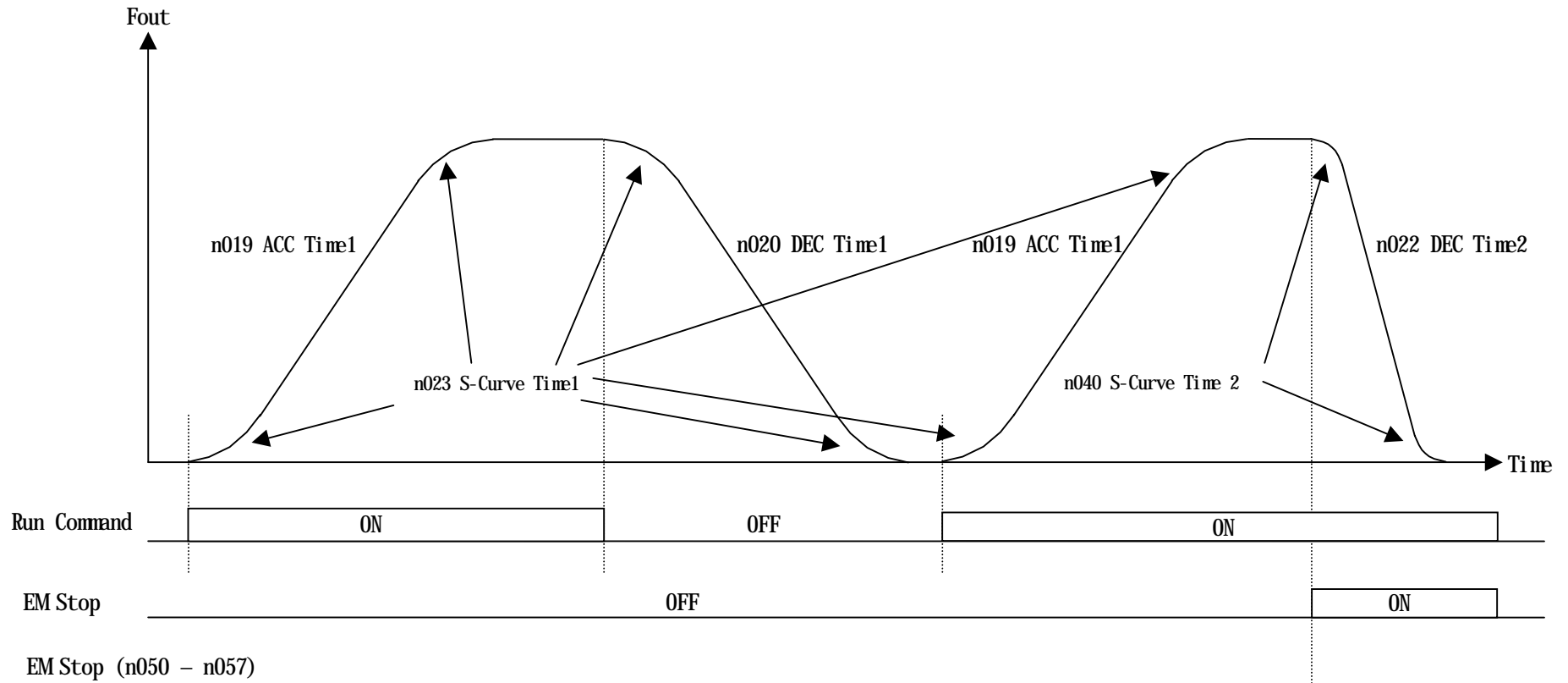Add the S-Curve time selection parameter for Fast Stop (n040: Same as n023).

2. Changed Parameters Table.

No.	Name	Units	Range	Default	Description	Other
n023	S-Curve time selection	1	0 - 9	0	0:Disable 1:0.1 Sec 2:0.2 Sec 3:0.3 Sec 4:0.5 Sec 5:1.0 Sec 6:2.0 Sec 7:3.0 Sec 8:5.0 Sec	Change the range.
n040	S-Curve time selection (For Fast Stop)	1	0 - 9	0	Same as n023	Add parameter.

Notes: n040 is effective when Fast stop input is active (n050-n056: Settings 19 or 21).

3. Time Chart of Fast Stop S-Curve.

When under normal acceleration and deceleration, the n023 S-Curve setting is active. If Fast Stop is programmed to a multi-function digital input (n050 - n056) and that terminal is closed, then the n040 S-Curve setting will be active.

Fout

n019 ACC Time1   n020 DEC Time1   n019 ACC Time1   n022 DEC Time2

n023 S-Curve Time1   n040 S-Curve Time 2

Time

Run Command   ON   OFF   ON

EM Stop   OFF   ON

EM Stop (n050 – n057)
Setting: 19 Emergency Stop fault (Normal Open contact input)
          21 Emergency Stop fault (Normal Close contact input)

Inverter stops by emergency stop signal input according to stopping method selection (n005).
When deceleration stop is selected, Inverter stops according to decel time setting 2(n022) and S-Curve time selection (n040)