

User's manual for SM400DV4

PROCEDURE FOR INITIAL SETTING

- 1) When power put in, AC6P will be shown and becomes Automatic operation mode with "AUTO" indicator.
- 2) For initial stage of installation, Program Setting should be done. Press "DOWN" key in 3 seconds and a door will open while flickering "ACL" in Indicator.
- 3) It automatically calculates opening distance and completes door closing. Then Indicator show "AUTO" to say, it is ready to move in automatic mode.
- 4) Now press, "ESC/SAVE" key to save all data and escape a programming mode.

PROCEDURE FOR PARAMETER ADJUSTMENTS

- 1) At auto mode, when press, "MODE" key, indicator shows, "C0". Then Now You can adjust up to, "C40" by "UP" key.
- 2) At each, "C0" to "C40" parameters, if you press, "MODE" key, You can see, present Data. Here you can adjust its values by scrolling them with UP/DOWN key. Once you set, you can escape by press, "MODE" key.
- 3) Once completed, You bring it down to "C0" and Press, "MODE" key. Then It comes to the "AUTO" model. All data will be saved by pressing, "ESC/SAVE" key.
- 4) If YOU DON'T Press, "ESC/SAVE" key, Data will go away without saving. Then all data will be returned to the previous data setting when power-off.
- 5) For defaults setting, Please Press, "UP" key in 3 seconds. Now indicator shows, "-- --" and Data is all default setting.

2. Pattern setting table

Code	Explanation	Range(Basic)	Contents
C1	Slow speed time at early door opening phase	10-1000(750)	Time reduces when it increases
C2	Speed at slow speed section at early door opening phase	20-200(40)	Speed increases when it increases
C3	Tilt of opening acceleration	100-4000(600)	Drastic acceleration when it increases
C4	Maximum opening speed	100-1200(470)	Speed increases when it increases
C5	Tilt of opening deceleration	100-4000(350)	Emergency deceleration when it increases
C6	Distance of slow speed section at the end of door opening	5-50(25)	No slow speed section when it increases
C7	Speed of slow speed section at door opening phase in ending.	5-100(50)	Speed increases when it increases
C8	Torque in starting position of door opening	20-50(23)	Emergency stopping when it increases
C9	Speed of slow speed at door opening phase in ending.	20-100(40)	Torque increases when it increases
C10	Torque which maintains Stopping status at the end of door opening	10-50(25)	Torque increases when it increases
C11	Torque of Jog	10-50(25)	Drastic acceleration when it increases
C12	Speed of Jog	50-200(135)	Speed increases when it increases
C13	Tilt of closing deceleration	100-4000(100)	Distance reduces when it increases
C14	Maximum closing speed	100-1200(320)	Reduces when it increases
C15	Tilt of closing acceleration	100-4000(300)	Speed increases when it increases
C16	Closing torque	10-50(25)	Delaying time reduces when it increases

C17	Distance of slow speed section at the end of door closing	5-100(80)	Speed increases when it increases
C18	Speed of slow speed section at the end of door closing	50-100(40)	Torque increases when it increases
C19	Delaying time of stopping from the end of closing sensor	100-5200(3800)	Speed increases when it increases
C20	Door Speed after closing sensor from the end of closing	5-200(20)	Reduces 밀림(?) status
C21	Stopping torque at the end of closing	10-50(35)	Drastic acceleration when it increases
C22	Slow speed torque at the end of closing	5-50(25)	Speed in case of disorder
C23	Distance of turning in the reverse direction	10-1000(20)	Torque increases when it increases
C24	Stopping torque at enforced door opening	10-50(25)	Distance of turning in the reverse direction increases when it increases
C25	Duration time at enforced door opening	10-100(20)	
C27	Tilt of reopening acceleration in reopening	100-4000(20)	
C28	Tilt of reopening deceleration in reopening		
C30	System deceleration ratio	10-100(30)	At 4 poles(47)
C33	System initialization	1= High speed 2= middle speed 3 = slow speed initialization	
C36	Torque compensation max. speed.	2-200(40)	Speed increase if increased
C37	Torque compensation max. speed	0-50(30)	
C46	Opening Instruction when a door is in intermediate Stop	0-1 (0 - NON operation)	(1 - Operation)
C50	Upon complete door closing, Indicate operation status	0-3 (0 is to enable in door opening by enforced closing torque.) (3 is to disable in door opening by enforced closing torque.)	

3. SM400D ERR code

Indication	Occasion	Check point
Sr-t	over current	Check motor short, check electric leakage
Er-b	OP/CL sensor do not work within 10 seconds	Check OP, CL sensor
S1-b	Motor go round more than 2times after checking OP/CL	Check the fixed part of motor like belt
Er-p	The phase of motor rotation and encoder is in different direction	Rotation of motor and encoder phase C27 is adjustable
Ec-s	When gauging door width, CL sensor is not detected for more than 10seconds	Discordance of direction, Jogging operation
Eo-e	Bad encoder	Jogging operation, change encoder
Er-s	Simultaneous operation of CL/OP sensor	Door stop, Check sensor, Control CLEND,OPEND

