Example 1. Smooth acceleration and braking of an induction motor

Purpose.

This configuration is intended for smooth acceleration/braking. Start/stop is performed with the buttons on the local control panel (keypad), and speed is adjusted with the built-in potentiometer.

Control algorithm.

1) The motor is started by pressing the START button on the front panel
2) The motor speed is adjusted with the built-in potentiometer
3) The motor is stopped by pressing the STOP/RESET button on the front panel

Parameter list.

Table 1. Parameter list.

No.	Code	Name	Value	Note
1	F01.01	Start signal source	0	Start and stop from the operator's front panel
2	F01.02	Frequency reference source	1	Built-in potentiometer
5	F01.22	Acceleration time	5	Seconds. Set individually
6	F01.23	Deceleration time	5	Seconds. Set individually
7	F02.00	Motor type		According to the motor
8	F02.01	Number of poles		According to the motor
9	F02.02	Motor rated power		According to the motor
10	F02.03	Motor rated frequency		According to the motor
11	F02.04	Motor rated rotation speed		According to the motor
12	F02.05	Motor rated voltage		According to the motor
13	F02.06	Motor rated current		According to the motor