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Document number	Imoticon-ID700-009
Revision	0.0
Author	Gareth Lloyd
Product	Imoticon ID700
Title	Imoticon ID700 PLC functionality set-up
Summary	This document gives information on how to set up the Imoticon ID700 PLC functionality – Menu 4

NOTE: Please read this document in conjunction with the Imoticon ID700 Easy Start Guide and Imoticon ID700 Advanced User Manual.

If an application requires a certain speed profile, this can be set up in **Menu 4 – Preset speeds and PLC functionality**.

See Menu 4 in the Imoticon ID700 Advance User Manual for further features within this menu.

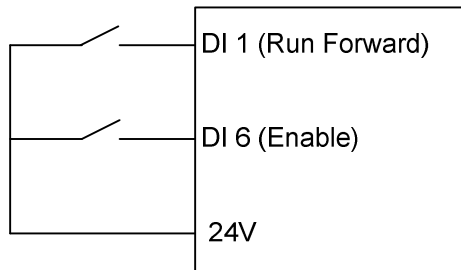
Example 1

It is required that a drive & motor, when enabled, should run for 30 minutes in the forward direction of rotation at 50Hz and then 5 minutes in the reverse direction of rotation at -50Hz. This cycle should continue until the drive is stopped / disabled.

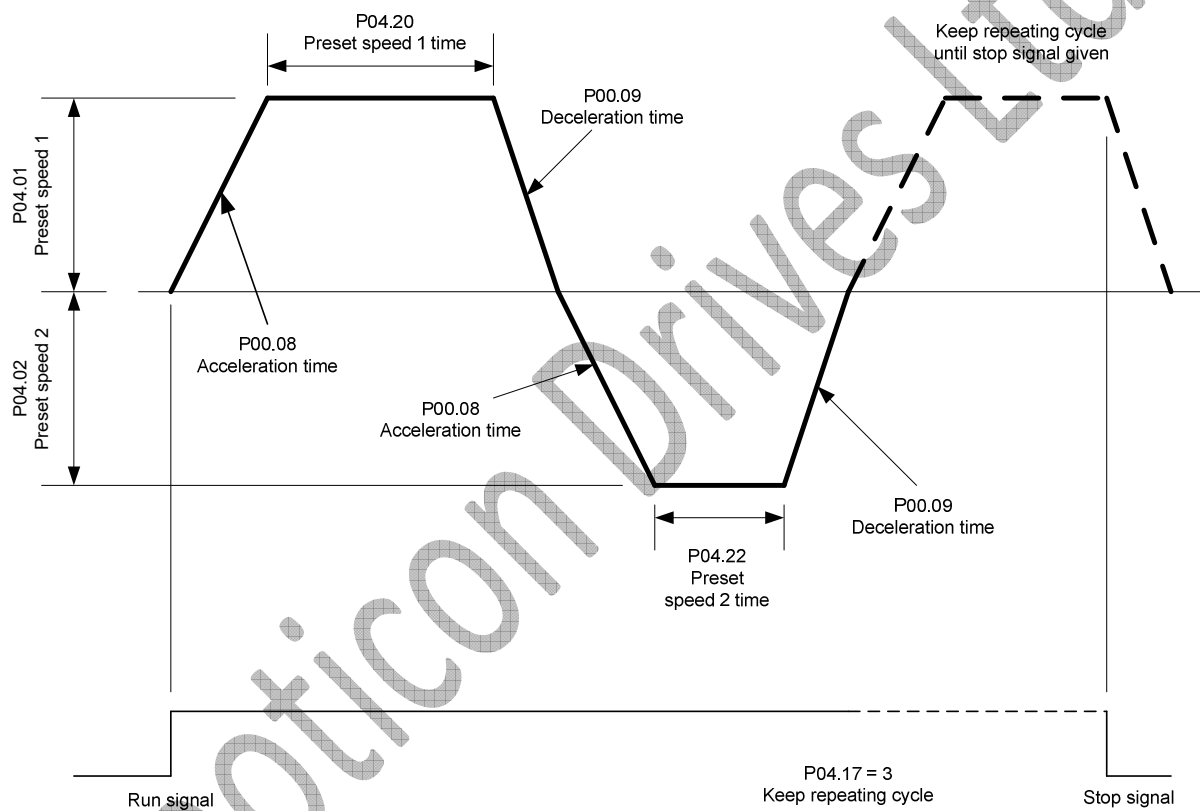
Imoticon ID700 Set-up

Parameter	Value	Description
P00.02	User set	Motor rated current
P00.04	1	Control mode – terminal mode
P00.05	7	Reference source selector – PLC control
P00.08	User set	Acceleration ramp time
P00.09	User set	Deceleration ramp time
P00.23	1	Extended menu access available
P04.01	50.00	Preset speed 1 to 50Hz
P04.02	-50.00	Preset speed 2 to -50Hz
P04.17	3	PLC mode – keep repeating the cycle
P04.20	1800	Preset speed 1 run time = 1800s (30 minutes)
P04.22	300	Preset speed 2 run time = 300s (5 minutes)

Terminal connections



Speed profile



NOTE: If the Run Forward switch is opened during the cycle, the drive will ramp to a stop. When the Run Forward switch is closed again, the cycle will start will again from the beginning.

Example 2

It is required that a drive & motor, when enabled, should run for 5 minutes in the forward direction of rotation at 50Hz, then 2 minutes in the forward direction of rotation at 30Hz and then 10 minutes in the reverse direction of rotation at -40Hz.

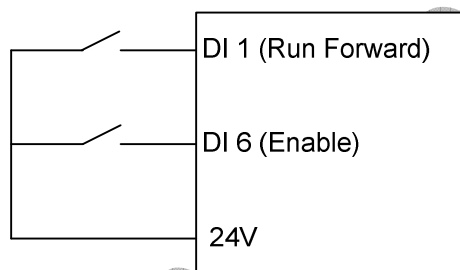
Each speed should have their own acceleration and deceleration ramps.

This cycle should run once and then stop.

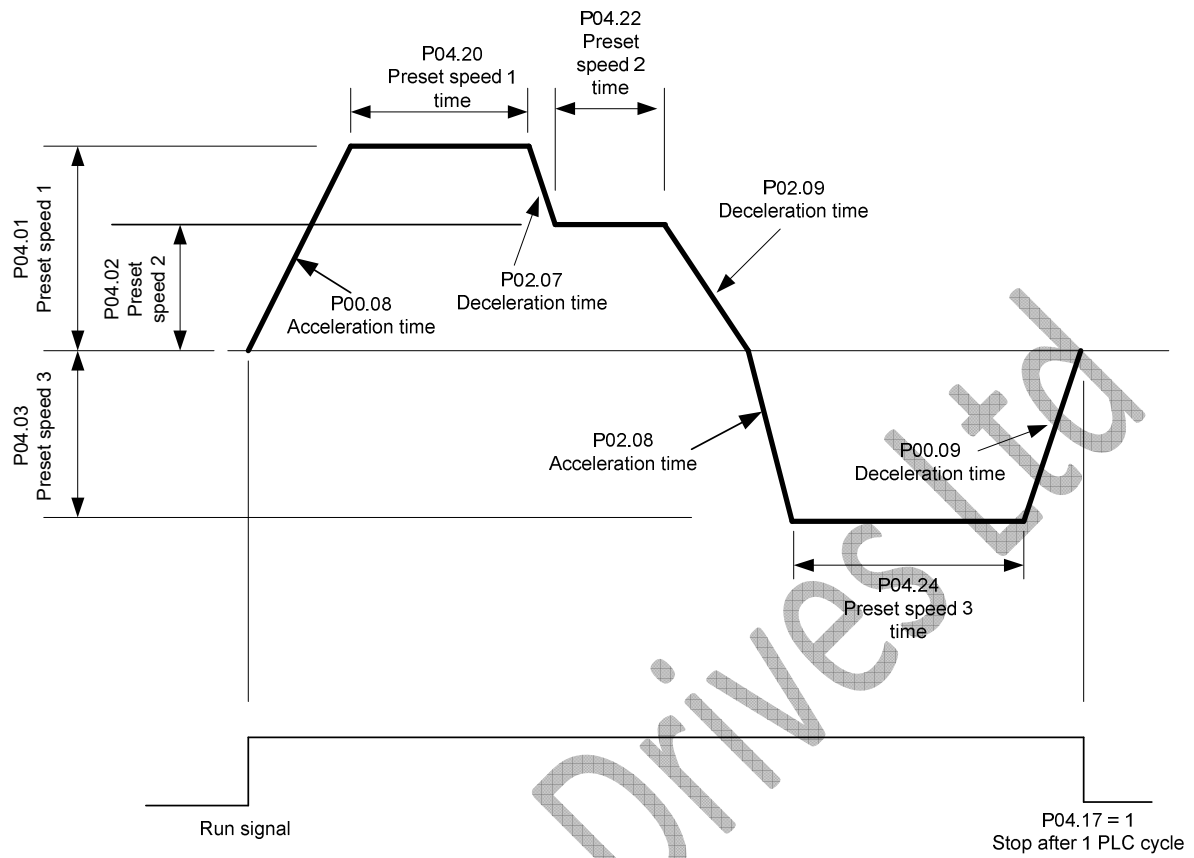
Imoticon Set-up

Parameter	Value	Description
P00.02	User set	Motor rated current
P00.04	1	Control mode – terminal mode
P00.05	7	Reference source selector – PLC control
P00.08	User set	Acceleration ramp time
P00.09	User set	Deceleration ramp time
P00.23	1	Extended menu access available
P04.01	50.00	Preset speed 1 to 50Hz
P04.02	30.00	Preset speed 2 to 30Hz
P04.03	-40.00	Preset speed 3 to -40Hz
P04.17	1	PLC mode – Stop after 1 PLC cycle
P04.20	300	Preset speed 1 run time = 300s (5 minutes)
P04.22	120	Preset speed 2 run time = 120s (2 minutes)
P04.23	1	PLC step 2 uses P02.06 accel ramp and P02.07 decel ramp
P04.24	600	Preset speed 3 run time = 600s (10 minutes)
P04.25	2	PLC step 3 uses P2.08 accel ramp and P2.09 decel ramp

Terminal connections



Speed profile

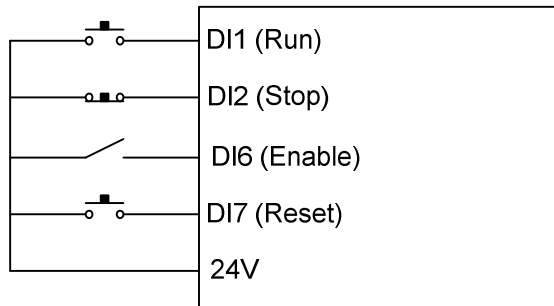


NOTE: If the Run Forward switch is opened during the cycle, the drive will ramp to a stop. When the Run Forward switch is closed again, the cycle will start will again from the beginning.

Terminal set-up

It is possible to change the terminal configuration as below so that momentary terminals can be used rather than latching terminals:

Set parameter P00.14 = 2



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