6. 12 Setting the preset-speed operation frequency

6. 12. 1   Setting the preset-speed operation frequency
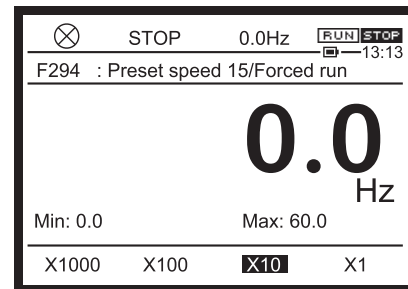
<F287: Preset speed 8>
<F288: Preset speed 9>
<F289: Preset speed 10>
<F290: Preset speed 11>
<F291: Preset speed 12>
<F292: Preset speed 13>
<F293: Preset speed 14>
<F294: Preset speed 15 / Forced run speed>
<F560: Preset speed operation style>
<F561: Operation function (1-speed)> through <F575: Operation function (15-speed)>
<F576: Operation function (0-speed)>

For details of preset speed operation, refer to [5. 3. 7].

6. 12. 2   Forced run in emergency

<F294: Preset speed 15 / Forced run speed>

■ **Function**

You can run the inverter at a specified speed (frequency) in emergencies or continue to forcibly run it during slight failure. When the input terminal with the assigned function is turned ON, the inverter runs at the frequency set with <F294: Preset speed 15 / Forced run speed> regardless of run and frequency commands.

■ **Parameter setting**

Title	Parameter name	Adjustment range	Unit	Default setting
F294	Preset speed 15 / Forced run speed	LL - UL	Hz	0.0

■ **Guideline for the setting**

Assign the function to unused input terminal.
• When the inverter runs at a specified speed in an emergency

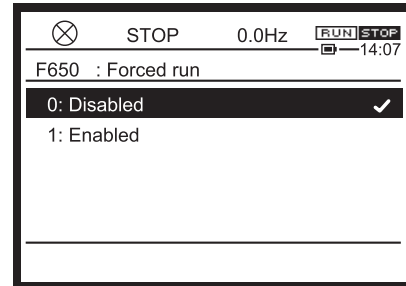 Input terminal function "58: Fire speed run"
- When the inverter continues to forcibly run even during slight failure

  Input terminal function "56: Forced run"

When the input terminal with the assigned function is turned ON, the inverter runs at the frequency set with <F294: Preset speed 15 / Forced run speed>.

6

6. 31 Forced run control in emergency

<F650: Forced run>

```
  ⊗        STOP        0.0Hz    RUN STOP
                               ▣—14:07
  F650   : Forced run
  0: Disabled                            ✓
  1: Enabled


```

■ **Function**

With the forced run control, the motor runs at the specified speed in an emergency.

■ **Parameter setting**

Title	Parameter name	Adjustment range	Unit	Default setting
F650	Forced run	0: Disabled 1: Enabled		0
F294	Preset speed 15 / Forced run speed	LL - UL	Hz	0.0

■ **Setting the parameters and input terminal**

Set <F650: forced run> = "1: Enabled"
Set any of the function to the unused input terminal. For details, refer to [7. 2. 1].
You can perform the forced run or fire speed run with the setting of <F650> = "1" and an assigned input terminal is ON.

"56: Forced run"
  • Once the input signal is ON, it is self-retained. The motor runs at the frequency set by <F294>.
  • In case of a slight failure, the motor performs the forced run, in which the operation is continued.
"58: Fire speed run"
  • Once the input signal is ON, it is self-retained. The motor performs the fire speed run at the frequency set by <F294>.

In both cases, to stop the running, the power circuit needs to be turned off.
During the forced run and the fire speed run, "FIrE" is displayed.

■ **Signal output of forced run**

Assign any of these to the unused output terminal. For details, refer to [7. 2. 2].
  "138: During forced run"
  "140: During fire speed run"

Reference	• How to operate the operation panel -> Refer to [3. 1. 1]. • How to switch display mode on the operation panel -> Refer to [3. 1. 2]. • Procedure to change parameter setting -> Refer to [4. 2. 3] • Details on operation by external signals -> Refer to [Chapter 7].

6