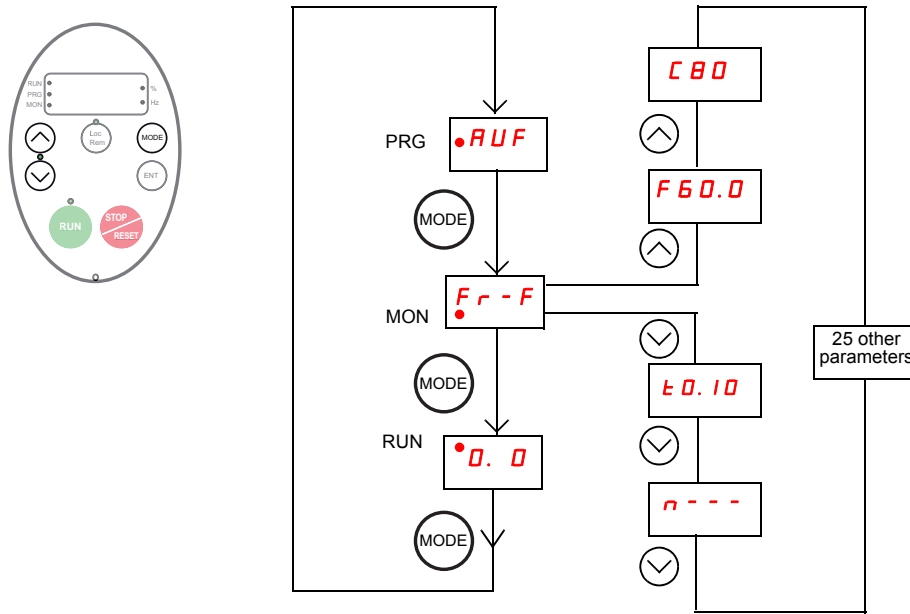
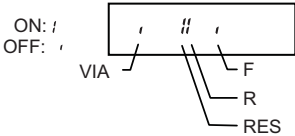



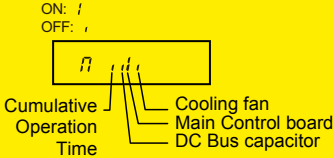
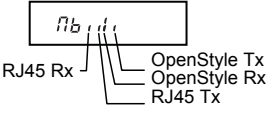
Monitoring Mode

The Monitoring mode displays drive operational data in real time. To access the Monitoring mode, press the MODE key until the MON LED is illuminated. Then use the UP and DOWN keys to view up to 30 different types of data.



Monitoring Mode Displays

Display example	Display on graphic terminal	Description
<i>Fr - F</i>	[Direction]	<i>Fr - F</i> = [Forward] <i>Fr - r</i> = [Reverse]
<i>F 60.0</i>	[Speed reference]	Command frequency to drive, displayed either as Hz or in custom unit set by parameter [Customized freq val] (<i>F 702</i>)
<i>C 80</i>	[Motor current]	The average of the 3 phases of motor current displayed either as amperes or as a percentage of the drive's nameplate-rated output current. Select % or A with parameter [Unit value selection] (<i>F 701</i>).
<i>Y 100</i>	[Line voltage]	The average of the 3 phases of line to line input voltages displayed either in volts or as a percentage of the drive's rated input voltage (200 V for 208/240 V models - 400 V for 480 V models). Select % or volts with parameter [Unit value selection] (<i>F 701</i>).
<i>P 100</i>	[Motor voltage]	The average of the 3 phases of line to line output voltages displayed either in volts or as a percentage of the drive's rated output voltage (200 V for 208/240 V models - 400 V for 480 V models). Select % or volts with parameter [Unit value selection] (<i>F 701</i>).
<i>q 60</i>	[Motor torque %]	Estimated motor torque as a percentage of the motor's rated torque
<i>c 90</i>	[Torque current]	The average of the 3 phases of torque-producing motor current displayed either as amperes or as a percentage of the motor's rated torque-producing current. Select % or A with parameter [Unit value selection] (<i>F 701</i>).
<i>L 70</i>	[Drive load %]	The motor current as a percentage of the drive's rated output current, which may be reduced from the drive's nameplate current rating by adjustments in switching frequency.
<i>h 80</i>	[Input power KW]	drive input power displayed in accordance with parameter [Power cons. unit] (<i>F 749</i>).
<i>H 75</i>	[Output power KW]	drive output power displayed in accordance with parameter [Power cons. unit] (<i>F 749</i>).
<i>o 60.0</i>	[Motor frequency]	Motor operating frequency, displayed either as Hz or in custom unit set by parameter [Customized freq val] (<i>F 702</i>)
<i>. . 11</i>	[Logic input map]	 <p>The bar representing VIA is displayed only if <i>F 109</i> = 1 or 2</p>

Display example	Display on graphic terminal	Description
D. 1	[Relay map]	ON: / OFF: , 
u 10 1	[CPU CTRL ver.]	CTRL version 101
uc 0 1	[CPU MMI ver.]	MMI version 1.0
uE 0 1	[Memory ver.]	Version of memory
d 50. 0	[PID feedback]	Level of PID feedback, displayed either as Hz or in custom unit set by parameter [Customized freq val] (F 702)
b 70. 0	[PID computed ref.] speed reference	Speed reference command to drive as computed by the PID function, displayed either as Hz or in custom unit set by parameter [Customized freq val] (F 702)
h 85	[Total input power]	Accumulated input power consumed by the drive displayed in kWh
H 75	[Total motor power]	Accumulated output power supplied by the drive displayed in kWh
A 16. 5	[Drive out. rat. cur. A]	Drive nameplate rated output current in amperes
1500	[Motor speed rpm]	Motor speed in rpm
n 50	[Comm. counter 2]	Displays the counter numbers of communication through the network
n 50	[Comm. counter 1]	Displays the counter numbers of communication only at normal state in every communication through the network
nErr	[Past fault] Examples: - 1 blink Err5 - 2 blink Err5 - 3 blink CF12 - 4 blink nErr	The most recent detected fault stored in the detected fault history. If the drive is in a detected fault state, this is not the active detected fault. A detected fault is stored in the detected fault history after it is cleared by clear detected fault action. Press ENT to review drive state at time of detected fault. See "Detected fault Display and History" on page 21 and "Diagnostics and troubleshooting" on page 179 for more detail. There are 4 detected faults recorded. The detected fault 4 is cleared when a new detected fault appears.
n . . . 1	[Drive service alarm]	ON: / OFF: , 
n b . . . 1	[Mdb com stat]	ON: / OFF: , 
t 0. 10	[Drive run time 100h]	Cumulative drive run time. 0.01 = 1 hour. 1.00 = 100 hours

Detected fault display and history

When the drive detected faults, the graphic terminal displays a code. To review data about drive operation at the time of the detected fault, press the MODE key to enter the Monitoring mode. Then use the Up/Down keys to scroll through the data listed in table page 20.

Up to five detected faults can be displayed on the graphic terminal in Monitoring mode: the present detected fault (if the drive is in a detected fault state) and the previous four detected fault codes. To review drive operation data recorded at the time of detected fault for a previous detected fault, press ENT when the code for the detected fault is displayed. See table below for the available information.

When a detected fault is cleared or power is cycled to the drive, the present detected fault becomes Past detected fault 1.