11 FUNCTION BLOCK FUNCTION

11.1 OVERVIEW

A "function block" is a block of a ladder program defined in advance that implements a particular process (function).

You can place a defined function block in other ladder program and set required input/output parameters to execute the function.

By defining a frequently used function as a function block, you can reuse the function easily, and can reduce the time required for programming and increase the development efficiency.

In addition, program diagnosis can be performed without displaying the detailed program in the function block, which is also effective to decreases the amount of the printed maintenance ladder diagram.
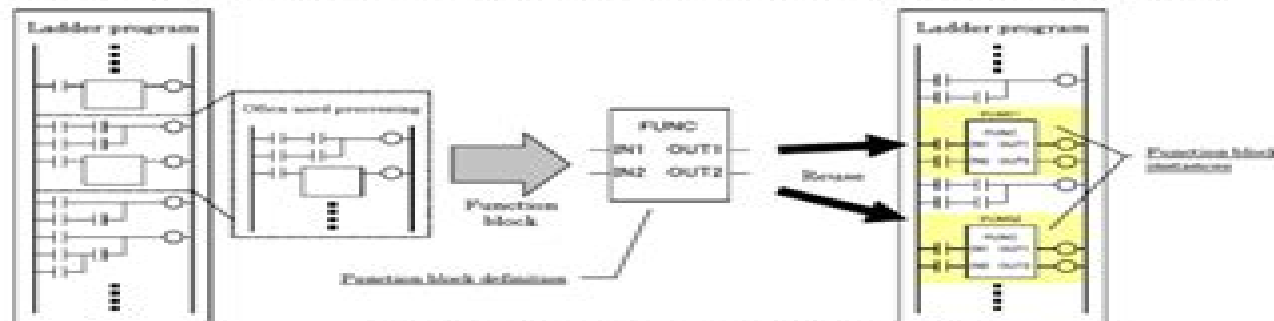

Fig. 11.1 Reusing a program using a function block

> **NOTE**
> To use the Function Block function on the series 30*i*/31*i*/32*i*/35*i*-B or the Power Motion *i*-A, its option is necessary.

Definition and instance

To create a function block, you need ladder program to implement the function and the input and output signals for the program. These are called as "function block definition." You can paste the defined function block into an actual program and specify the input and output signals to call and execute the function. Each function block pasted into a program is called a "function block instance." You can create more than one instances of the same function block in a program.

> **NOTE**
> Programming using function blocks requires FANUC LADDER-III, a PMC programmer that runs on PC. You can also use PMC screens built into the CNC to display the function block monitor and to change addresses and other items that are set as parameters.

Assignment of addresses to parameters and variables

Program a ladder program in a function block definition using variables (symbols) to which specific addresses are not assigned (symbol programming). When a program containing a function block instance is compiled, specific addresses are assigned to the parameters and variables used in the program in the function block. Different addresses are assigned to different function block instances and individual instances operate independently.

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