Transferring 16-bit block data (65535 points maximum)

BMOV(P)

| FX5S | FX5UJ | FX5U | FX5UC |

These instructions block transfer the 16-bit binary data of (n) number of devices starting from the one specified by (s) to the device specified by (d).

Ladder diagram	Structured text
—[▭:▬:▭] (s) (d) (n)—	ENO:=BMOV(EN,s,n,d); ENO:=BMOVP(EN,s,n,d);

FBD/LD
▭:▬:▭ EN   ENO s   d n

Setting data

■Descriptions, ranges, and data types
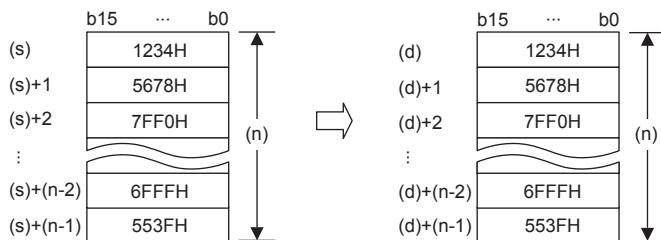
Operand	Description	Range	Data type	Data type (label)
(s)	Head device for storing the data to be transferred	—	16-bit signed binary/ 32-bit signed binary	ANY16
(d)	Head number of the transfer-destination device	—	16-bit signed binary/ 32-bit signed binary	ANY16
(n)	Number of transfers	1 to 65535	16-bit unsigned binary	ANY16
EN	Execution condition	—	Bit	BOOL
ENO	Execution result	—	Bit	BOOL

■Applicable devices

Operand	Bit	Word			Double word		Indirect specification	Constant			Others
	X, Y, M, L, SM, F, B, SB, S	T, ST, C, D, W, SD, SW, R	U□\G□	Z	LC	LZ		K, H	E	$	
(s)	○	○	○	—	○	—	○	—	—	—	—
(d)	○	○	○	—	○	—	○	—	—	—	—
(n)	○	○	○	○	—	—	○	○	—	—	—

Processing details

- These instructions block transfer the 16-bit binary data of (n) number of devices starting from the one specified by (s) to the device specified by (d).
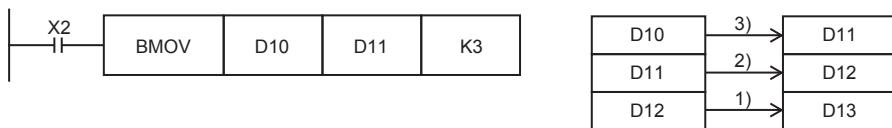
- If the device number range is exceeded, data is transferred within the possible range.
- Data can be transferred even when the device range of the transfer-source device and transfer-destination device is overlapping. To transfer data to a device having a smaller device number, transfer from (s), and to transfer data to a device having a larger device number, transfer from (s)+(n)-1.

Ex.

When transferring data to a device having a smaller device number
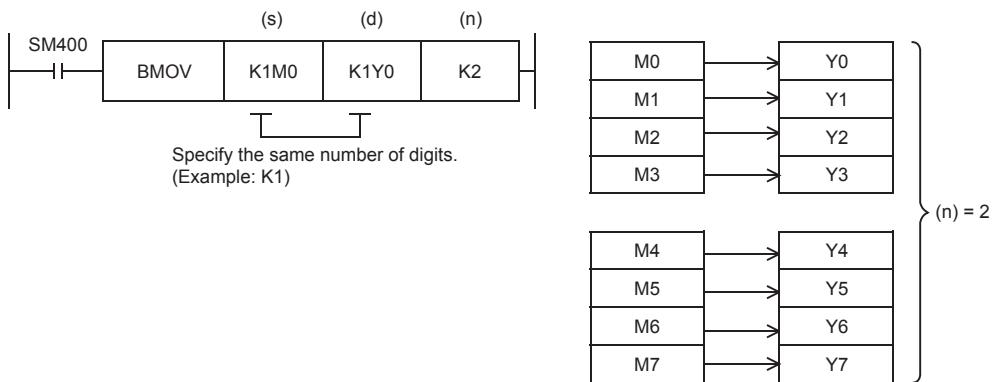

When transferring data to a device having a larger device number

Precautions

- To perform digit specification of bit device for both (s) and (d), be sure to set the same number of nibbles for (s) and (d).

- To use a module access device for (s) and (d), specify either (s) or (d).

Operation error

Error code (SD0/SD8067)	Description
3405H	The number of nibbles of the digit specification of bit device of (s) and (d) is different.
3420H	A module access device is specified for both (s) and (d).