

**SINEE EM 730**

$\therefore 31010214$   
 $: 2021$   
 $: 100$

EM730  
SINEE.

3-

(VF)

(SVC)

WiFi

**EM 730:**

730

[www.sineedrive.com](http://www.sineedrive.com)

[www.gearos.ru](http://www.gearos.ru)

2



1.

2.



1.

2.

3.

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1.

2.

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1.

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2.

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3.

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1.

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2.

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3.

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4.

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5.

(U, V, W) .



1.

,

2.

+


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3.

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|    |       |
|----|-------|
| 4. | LC/RC |
| 5. |       |
| 6. |       |

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|  |               |
|--|---------------|
|  |               |
| 1.   | , ; (R, S, T) |
| (U, V, W)  |               |
| 2.   | ,             |

|  |  |
|--|--|
|  |  |
| 1.   |  |
| 2.   |  |

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|  |               |
|--|---------------|
|  |               |
| 1.   |               |
| 2.   | , , (R, S, T) |
| 3.   |               |
| 4.   | , ,           |



1. , ,
2. , ,

:



1. ,
2. .



1. !
2. !

:



1. , !
2. , 10 !
3. !
4. !
5. .

5 MΩ.

50

EM 730

1000

f

1.5%

50 °C,

1 °C

( 1%

100

3000 ;

60 °C).

|   |       |    |
|---|-------|----|
|   | ..... | 1  |
|   | ..... | 2  |
| 1 | ..... | 8  |
| 2 | ..... | 12 |
| 3 | ..... | 19 |
| 4 | ..... | 31 |
| 5 | ..... | 38 |
| 6 | ..... | 46 |
| 7 | ..... | 55 |
| 8 | ..... | 57 |
| 9 | ..... | 60 |

1

1.1

EM730

- 3 AC 340-460 , 1 AC 200V-240 ;
- :  
( EM730 ).  
EM730 . 1-1.  
1-1 EM730

|                |                | ( )  | (A) | "<br>" (A) |
|----------------|----------------|------|-----|------------|
| AC 200V~240V   | EM730-0R4-2B   | 0.4  | 2.8 | 3.2        |
|                | EM730-0R7-2B   | 0.75 | 4.8 | 5.0        |
|                | EM730-1R5-2B   | 1.5  | 8   | 8.5        |
|                | EM730-2R2-2B   | 2.2  | 10  | 11.5       |
| AC<br>340~460V | EM730-0R7-3B   | 0.75 | 2.5 | 3          |
|                | EM730-1R5-3B   | 1.5  | 4.2 | 4.6        |
|                | EM730-2R2-3B   | 2.2  | 5.6 | 6.5        |
|                | EM730-4R0-3B   | 4.0  | 9.4 | 10.5       |
|                | EM730-5R5-3B   | 5.5  | 13  | 15.7       |
|                | EM730-7R5-3B   | 7.5  | 17  | 20.5       |
|                | EM730-011-3B   | 11   | 25  | 28         |
|                | EM730-015-3B   | 15   | 32  | 36         |
|                | EM730-018-3B   | 18.5 | 38  | 41.5       |
|                | EM730-022-3B   | 22   | 45  | 49         |
|                | EM730-030-3/3B | 30   | 60  | 70         |
|                | EM730-037-3/3B | 37   | 75  | 85         |
|                | EM730-045-3    | 45   | 90  | 105        |
|                | EM730-055-3    | 55   | 110 | 134        |
|                | EM730-075-3    | 75   | 150 | 168        |
|                | EM730-090-3    | 90   | 176 | 200        |
|                | EM730-110-3    | 110  | 210 | 235        |
|                | EM730-132-3    | 132  | 253 | 290        |
|                | EM730-160-3    | 160  | 304 | 340        |



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EM730

1-2.

T

1-2

EM730


|  |   | 3                       | 340           | -10% | 460 | +10%,                  |
|--|---|-------------------------|---------------|------|-----|------------------------|
|  |   | 1                       | 200           | -10% | 240 | +10%; 50 ±5%;<br>: <3% |
|  |   |                         |               |      |     |                        |
|  |   | 100%                    | S1            |      |     |                        |
|  |   | 150% 60 ;               |               |      |     |                        |
|  |   | 180%                    | 10 ; 200% 2 ; |      |     |                        |
|  |   | 120% 60 ;               |               |      |     |                        |
|  |   | 150%                    | 10 ; 180% : 2 |      |     |                        |
|  |   | V/F                     | ; (SVC)       |      |     |                        |
|  |   |                         |               |      |     |                        |
|  | , |                         |               |      |     |                        |
|  |   | 0.00~600.00 /0.0~3000.0 |               |      |     |                        |
|  |   | : 0.01Hz/0.1            |               |      |     |                        |
|  |   | : 0.1%                  |               |      |     |                        |
|  |   | 1:50 (VF), 1:200 (SVC)  |               |      |     |                        |
|  |   | ±0.2%                   |               |      |     |                        |

|  |   |   |
|--|---|---|
|  |   | 0.01      600.00 / 0.1      6,000.0 / 1      60,000 |
|  | - | : 20% to 100%,<br>: 1      600 /3,000               |
|  |   | V/F .   |
|  |   | 150%/1 (VF)<br>150%/0.25 (SVC)                      |
|  |   | ±5% (SVC)   |
|  |   | ,   |
|  |   | .   |
|  |   | : 0.01<br>: 0~30<br>: 0%      150%                  |
|  |   |   |
|  |   | 10 /20 A  |
|  |   | 24 /100 A   |
|  |   | 5 : X1~X5<br>X5 ( . 100 ).                          |
|  |   | 2 :<br>AI1 : -10 to 10 ;<br>AI2 : 0 10V<br>0 20 ;   |
|  |   |   |

|  |     |   |
|--|-----|---|
|  |     | : 50 mA;<br>: 250VAC/3A    30VDC/1A,<br>EA-EC: ; EB-EC: |
|  |     | M1: 0-10 /0-20 A  |
|  | LED | .   |
|  |     | , , , ,<br>. , , .                                      |
|  |     | 1<br>,<br>1% 100 3                                      |
|  |     | -10℃ +50℃, 5% 95%<br>50 ℃, 3% 1 ℃<br>60 ℃.              |
|  |     | 0,5g  |
|  |     | -40℃ ~+70℃  |
|  |     |   |
|  |     | IP20/IP21 ( )   |
|  |     |   |

2

2.1

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|---|---|
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Преобразователь  
частоты SINEE



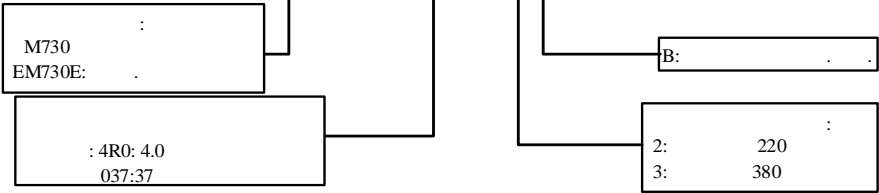
|                     |               |
|---------------------|---------------|
| Модель              | EM 730-1R5-3B |
| Входное напряжение  | 3Ф*380В       |
| Выходное напряжение | 3Ф*380В       |
| Мощность            | 1,5кВт        |



01182309112006163001100

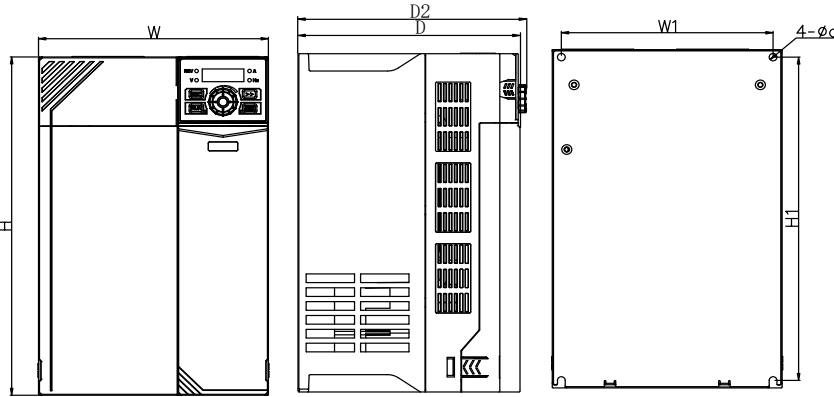
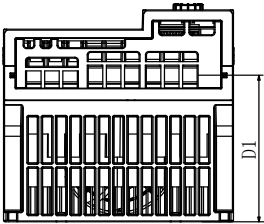
Импортер: ООО «Гирос». Адрес: Моск.обл., г. Мытищи, ул. Колпакова, д 2, к. 1, оф.227

EM730-4R0-3B



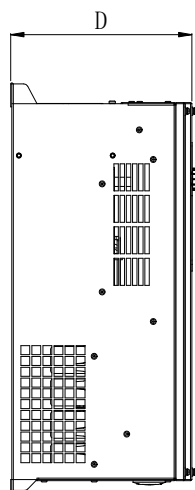
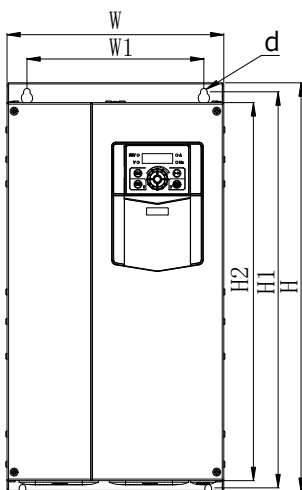
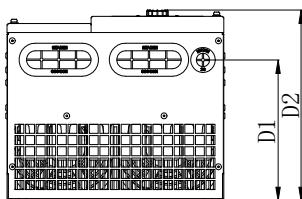
2.2

EM730 25 , 2 , 2-1 2-2.



(a)

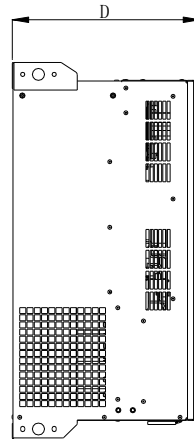
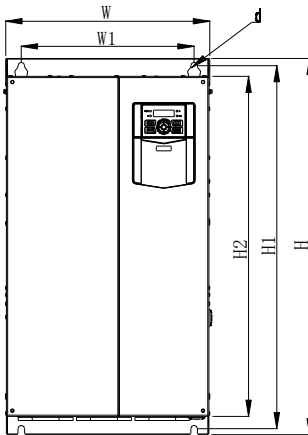
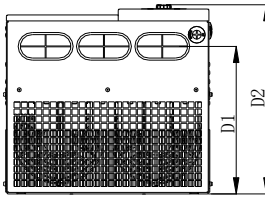
EM730-0R7-3B EM730-022-3B



(b)

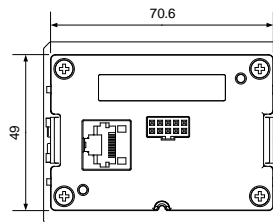
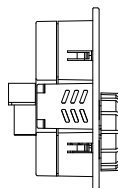
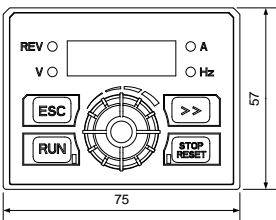
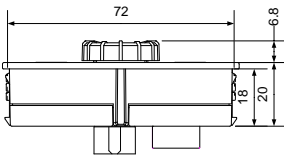
EM730-030-3B

EM730-075-3



(c)

EM730-090-3 EM730-160-3



(d)

.2-1

EM730  
EM730

EM730

2-2

EM730

|              | W   | W1  | H   | H1  | H2  | D   | D1  | D2  | d   |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| EM730-0R4-2B | 75  | 65  | 142 | 132 |     | 146 | 67  | 152 | 4.5 |
| EM730-0R7-2B |     |     |     |     |     |     |     |     |     |
| EM730-1R5-2B | 93  | 82  | 172 | 163 |     | 136 | 85  | 141 | 4.7 |
| EM730-2R2-2B |     |     |     |     |     |     |     |     |     |
| EM730-0R7-3B | 75  | 65  | 142 | 132 |     | 146 | 67  | 152 | 4.5 |
| EM730-1R5-3B |     |     |     |     |     |     |     |     |     |
| EM730-2R2-3B | 93  | 82  | 172 | 163 |     | 136 | 85  | 141 | 4.7 |
| EM730-4R0-3B |     |     |     |     |     |     |     |     |     |
| EM730-5R5-3B | 109 | 98  | 207 | 196 |     | 154 | 103 | 160 | 5.5 |
| EM730-7R5-3B |     |     |     |     |     |     |     |     |     |
| EM730-011-3B | 136 | 125 | 250 | 240 |     | 169 | 115 | 174 | 5.5 |
| EM730-015-3B |     |     |     |     |     |     |     |     |     |
| EM730-018-3B | 190 | 175 | 293 | 280 |     | 184 | 145 | 189 | 6.5 |
| EM730-022-3B |     |     |     |     |     |     |     |     |     |
| EM730-030-3  | 245 | 200 | 454 | 440 | 420 | 205 | 156 | 212 | 7.5 |
| EM730-030-3B |     |     |     |     |     |     |     |     |     |
| EM730-037-3  |     |     |     |     |     |     |     |     |     |
| EM730-037-3B |     |     |     |     |     |     |     |     |     |
| EM730-045-3  | 300 | 266 | 524 | 508 | 480 | 229 | 174 | 236 | 9   |
| EM730-055-3  |     |     |     |     |     |     |     |     |     |
| EM730-075-3  | 335 | 286 | 580 | 563 | 536 | 228 | 177 | 235 | 9   |
| EM730-090-3  | 335 | 286 | 630 | 608 | 570 | 310 | 247 | 317 | 11  |
| EM730-110-3  |     |     |     |     |     |     |     |     |     |
| EM730-132-3  | 430 | 330 | 770 | 747 | 710 | 311 | 248 | 319 | 13  |
| EM730-160-3  |     |     |     |     |     |     |     |     |     |



2.3

2.3.1

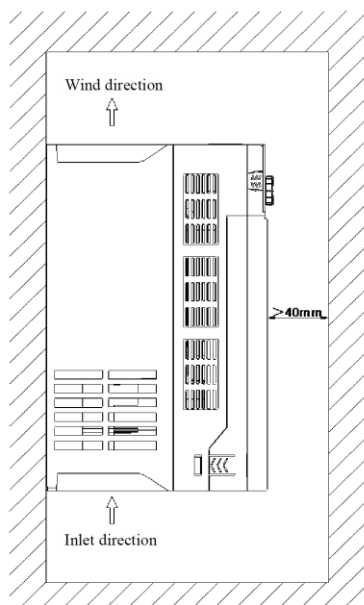
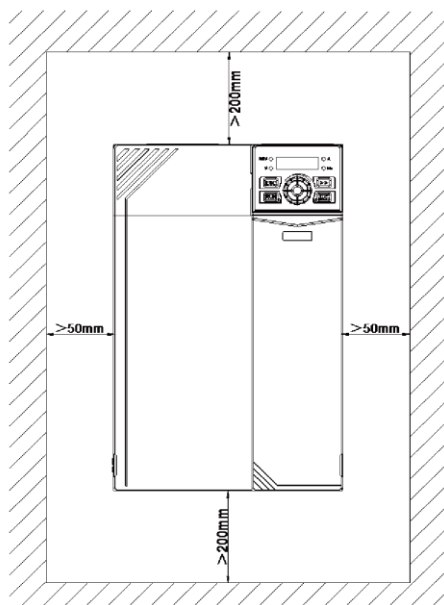
- ：
- 1.
  2. -10 50 40℃,
  3. ( 90%RH)
  - 4.
  - 5.
  - 6.
  7. ,
  - 8.

2.3.2

2.4

EM730-1R5-3B

. 2-2.



.2-2

### Глава 3 Подключение

#### 3.1 Подключение периферийных устройств

Стандартное подключение частотного преобразователя EM730 и периферийных устройств показано на рис.3- 1.

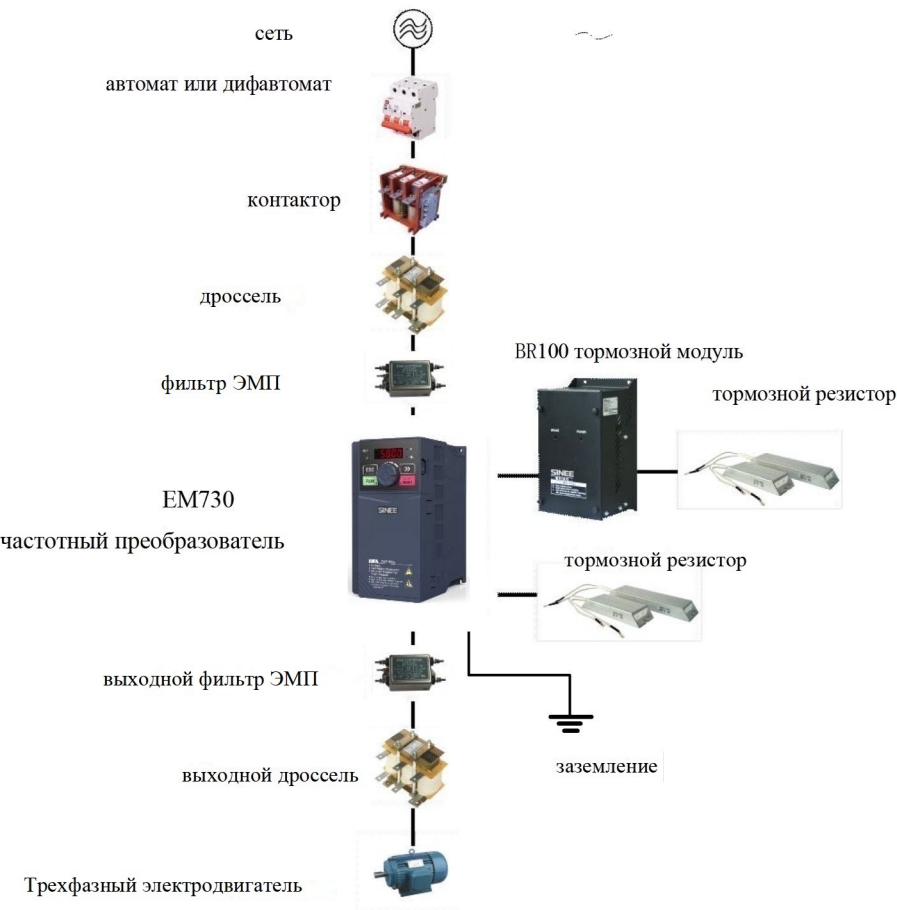
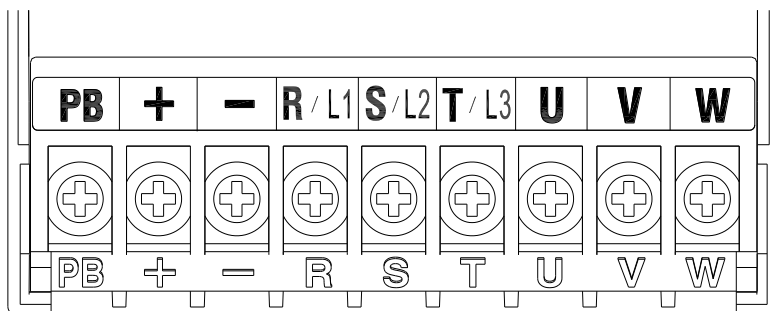


Рис .3- 1 Подключение ПЧ и периферийных устройств

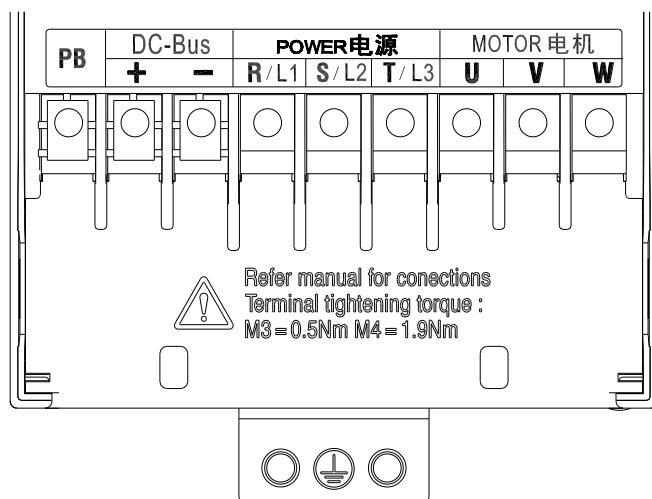
## 3.2

## 3.2.1



a)

(380 , 0.75 -1.5 )



b)

(380 , 2.2 -4.0 )

1: 45-160

PB

2: 132-160

P

3.2.2

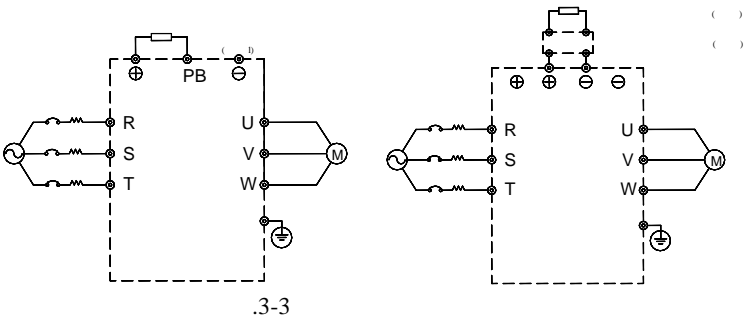
EM730

|                  |                    |
|------------------|--------------------|
|                  |                    |
| R/L1, S/L2, T/L3 | 2- 3- ) ( 3-       |
| U, V, W          | 3-                 |
| ⊕ ⊖              | ,                  |
| ⊕, PB            | PB ⊕               |
| P, ⊕             | EM730/EM730E-090-3 |
| ⊖                |                    |

3.2.3

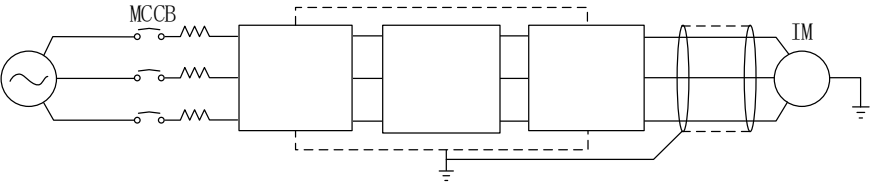
730

3.3.



3.2.4

3-4.



.3-4

3.2.5

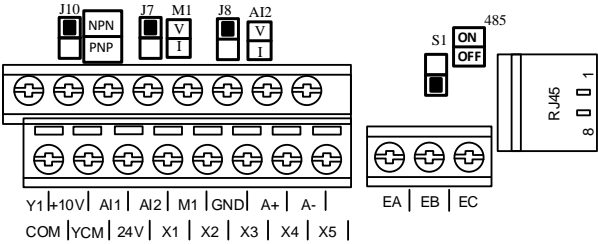
3.2.6

8

(+) PB. , (+ -) ,  
(+ -) ,  
r PB+ PB-

3.3

3.3.1



.3-11

1

: YCM Y1 , Y1 , YCM COM

3.3.2

|  |    |  |       |
|--|----|--|-------|
|  |    |  |       |
|  | 24 |  | +24 , |

|  |     |     |                                |
|--|-----|-----|--------------------------------|
|  |     |     | 100 A.                         |
|  | COM | ( ) | ( )<br>+24 ,                   |
|  | 10V |     | 10<br>: 10.5±0.5 /20 A,        |
|  | GND | ( ) | ( )                            |
|  | AI1 |     | -10 10 , 50 Ω ,                |
|  | AI2 |     | : 0/4-20 A 0-10                |
|  | M1  | /   | 0-10 /0-20 A; : ±2%            |
|  | X1  |     | PNP NPN , NPN<br>X5 c<br>100 . |
|  | X2  |     |                                |
|  | X3  |     |                                |
|  | X4  |     |                                |
|  | X5  |     |                                |
|  | Y1  |     |                                |
|  | YCM | Y   | YCM Y                          |

|  |      |       |                        |
|--|------|-------|------------------------|
|  |      |       | COM                    |
|  | A+   | RS485 | RS485                  |
|  | A-   |       | of RS485               |
|  | EA   |       | EA-EC: NO<br>EB-EC: NC |
|  | EB   |       |                        |
|  | EC   |       |                        |
|  | RJ45 |       |                        |

3.3.3

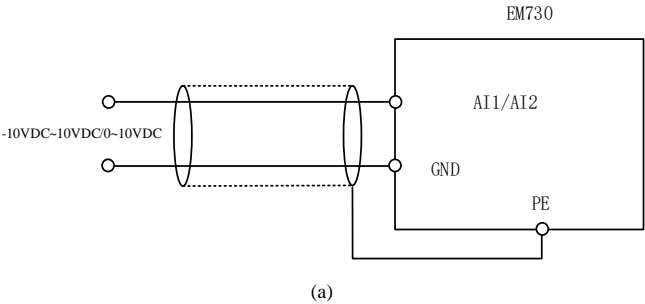
AI1 AI2 :

J8 AI2 V, . 3-11.

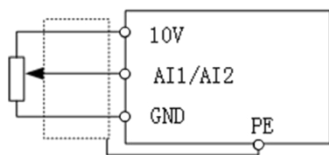
AI1 AI2 . 3-12-a.

AI1 AI2 . 3-12-b.

F02.62 ( AI1 ) F02.63 ( AI2 )  
(0: 0-10 ; 1: 4-20 A; 2: 0-20 A; 4: 0-5 ).







(b)

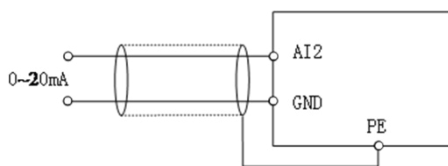
.3-12

AI1/AI2

2 :

AI2

J8



.3-13

2

### 3.3.4

EM730 series

NPN

PNP

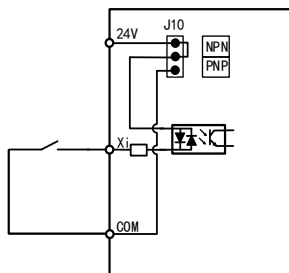
X1-X5

NPN

PNP

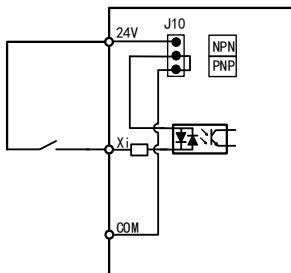
(NPN

J10



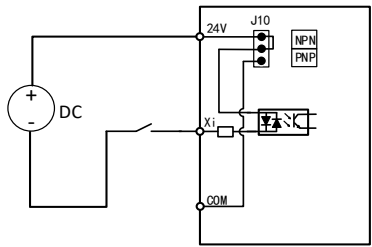
a:

NPN

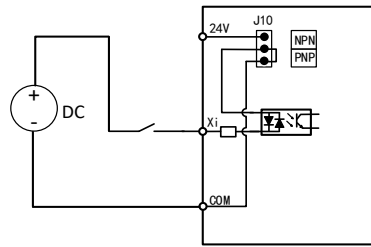


b:

PNP



c: NPN



d: PNP

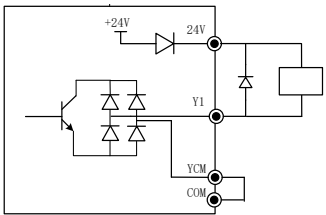
. 3-14

3.3.5

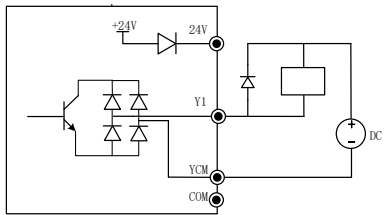
Y1

24

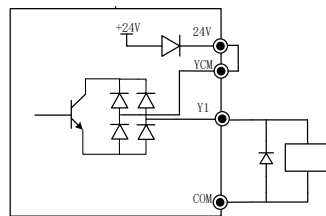
. 3-15:



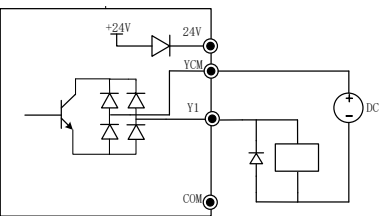
a: NPN



b: PNP



a: PNP



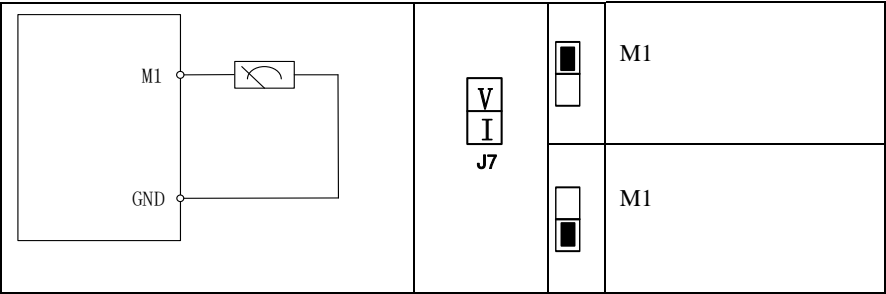
b: PNP

.3-15

: (1)

3.3.6

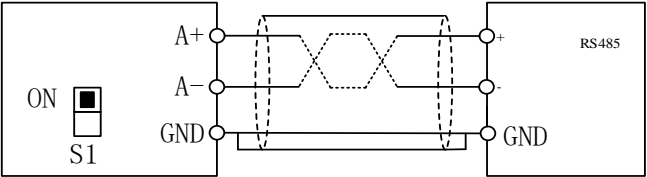
1  
J7  
(0-20 A) (0-10 ). F03.34 (0: 0-10 ; 1:  
4-20 A; 2: 0-20 A).



3.3.7

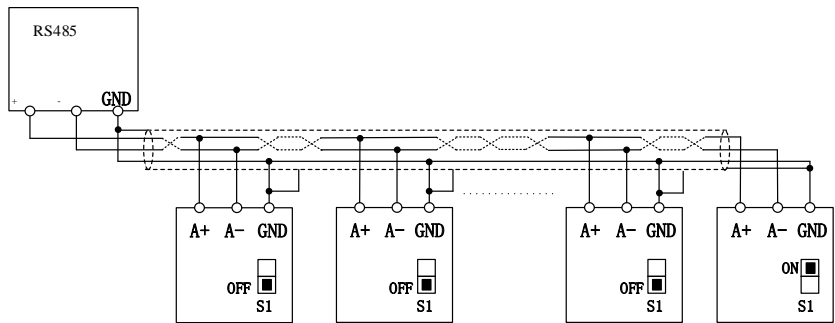
485

A+ and A- RS485  
( )  
RS485  
RS485/RS232 EM730 . 3-16, . 3-17 and . 3-18.  
● RS485:

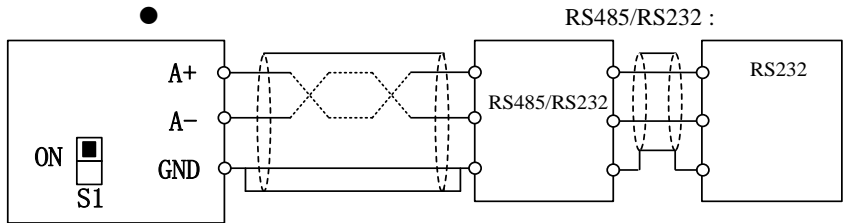


.3-16

RS485:



3-17



3-18

3.3.8

- 
- 
- 
- 
- 

EA, EB, EC, Y1

50



RJ45,

.

RJ45.

3 .

3)

Cat5E

10 .

4






4.1

4.1.1 LED EM730 - LED



. 4-1 LED

4.1.2

| Key/Indicator   |            |       |
|---|------------|-------|
|    |            |       |
|   |            |       |
|  |            |       |
|  | Stop/Reset | Reset |
|  | /          |       |
|   |            |       |
|   |            |       |

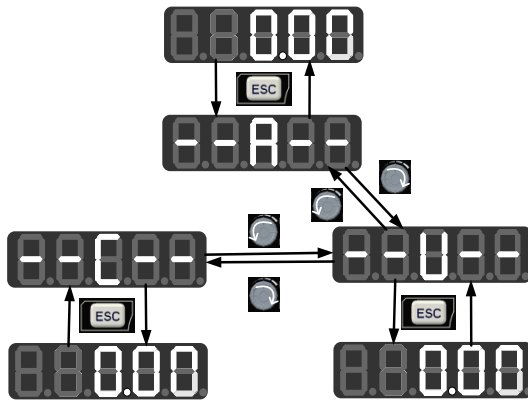
$$\begin{aligned}
 & \left( \begin{array}{c} 1) \\ 3) \end{array} \right) \quad ; \quad \left( \begin{array}{c} 0) \\ 2) \end{array} \right) \\
 & \quad ; \quad \left( \begin{array}{c} \text{---}\mathcal{R}\text{---} \end{array} \right) \\
 & \quad ; \quad \left( \begin{array}{c} \text{---}\mathcal{U}\text{---} \end{array} \right) \\
 & \quad ; \quad \text{F11}; \quad \left( \begin{array}{c} \text{---}\mathcal{L}\text{---} \end{array} \right) \\
 & \quad ; \quad \left( \begin{array}{c} \text{---}\mathcal{E}\text{---} \end{array} \right);
 \end{aligned}$$

1



32





. 4-2

## 4.2.1

(←R→)

,

ENTER   
ENTER

2 menu,

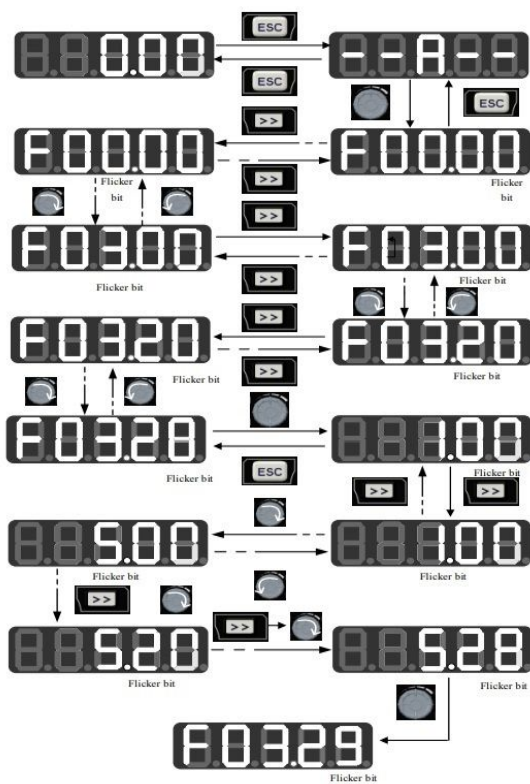
3 ,

,

.

F03.28 = 5.28

. 4-3.



. 4-3

F03.28=5.28

ENTER

:

3

ESC



#### 4.2.2

(--L--)

ENTER

2.

F00.00.



2

3



ENTER

F00.03=1 F00.07=40.00

F00.03.

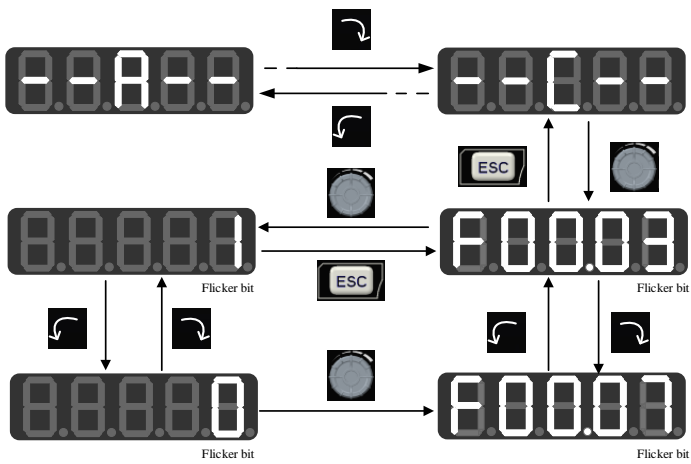


F00.07;



F00.03,

:



. 4-4

### 4.3



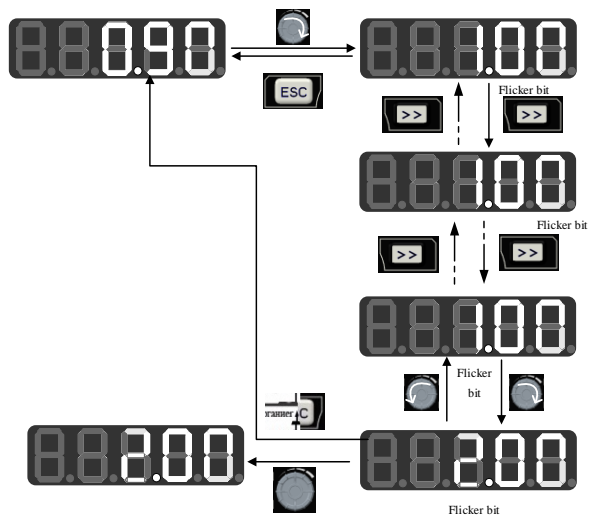
4.4 O

4.4.1

1 EM730,  
F12.33 F12.37. F12.32=1, 1.  
1 ,  
F12.33 and F12.37. ,  
,  
F12.33. ,  
, F12.34.

4.4.2

:  
F00.04 “0: F00.07”,  
;  
F00.04 = “8: ”,  
F12.42 .  
2  
ENTER  
4-6



. 4-6

## 4.5 /

, RUN 

STOP/RESET 

## 4.6

### 4.6.1 P-ON

P-ON

### 4.6.2 P-OFF

250 ( ),

P-OFF ,

5 , P-OFF

P-ON

### 4.6.3 SOFTE

SOFTE.

## 5

## 5.1



. 5-1

5.2

|  |            |
|--|------------|
|  | :          |
|  |            |
|  |            |
|  | (R, S, T)  |
|  |            |
|  | (U, V, W). |
|  | . 3-3 .    |
|  | .          |
|  | .          |
|  | .          |

5.3

LED

|  |      |      |
|--|------|------|
|  |      |      |
|  | 0.00 | 0.00 |
|  | Exx  | 6.   |

5.4

F16.00

, Enter  
EM730

5.5

|        |  |                |   |   |
|--------|--|----------------|---|---|
|        |  |                |   |   |
| F00.02 |  | 0:<br>1:<br>2: | 0 | ○ |

**F00.02=0:** RUN STOP  
LED RUN.

**F00.02=1:** F02.00 to F02.04. F00.03.

**F00.02=2:** RS485.

|        |  |          |   |   |
|--------|--|----------|---|---|
|        |  |          |   |   |
| F04.00 |  | 0:<br>1: | 0 | ○ |

**F04.00=0:** ( F04.04=0) ( F04.07=0).

**F04.00=1:**

|        |  |          |   |   |
|--------|--|----------|---|---|
|        |  |          |   |   |
| F04.19 |  | 0:<br>1: | 0 | ○ |

**F04.19=0:** [ : F00.15 ( 1)].  
**F04.19=1:**

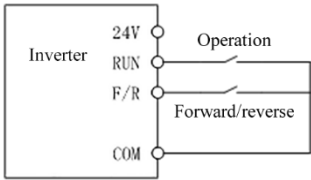


5.5.1

| F00.03 |  | 0: RUN ( )<br>F/R ( / )<br>1: RUN ( ) F/R<br>( )<br>2: RUN ( ), Xi ( )<br>F/R ( )<br>3: RUN ( ), Xi ( )<br>F/R ( / ) | 0 | ○ |
|--------|--|--|---|---|

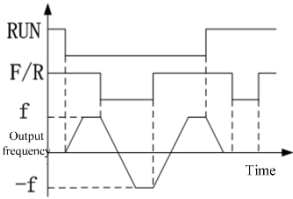
RUN: Xi “1: RUN”  
F/R: Xi t “2: F/R”  
730 -

F00.03=0: RUN , F/R .  
RUN  
F00.21 = 1 , F/R .  
F/R  
5-2 (b).  
F00.03=1: RUN , F/R  
RUN  
F/R  
RUN and F/R  
F/R  
5-2 (d)

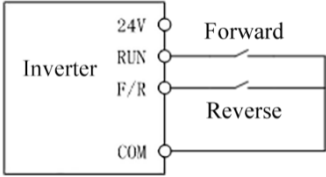


(a)

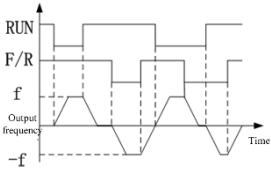
(F00.03=0)



(b) F04.19=0, F00.03=0,

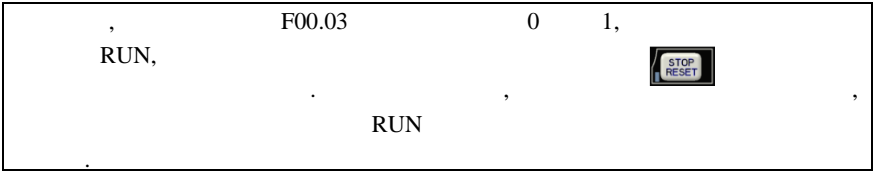


(c) F00.03=1



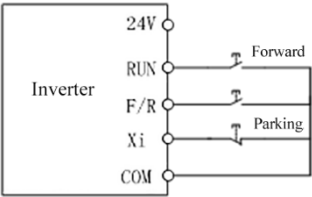
(d) F04.19=0, F00.03=1:

Fig. 5-2



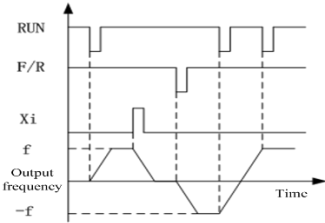
**F00.03=2:** RUN, F/R, NO, Xi, NC, Xi (F04.19=0),

**F00.03=3:** RUN, F/R, NO, NC, Xi, F/R, Xi, (F04.19=0),



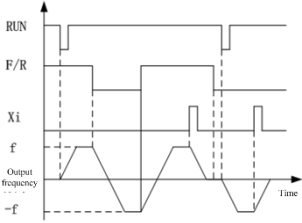
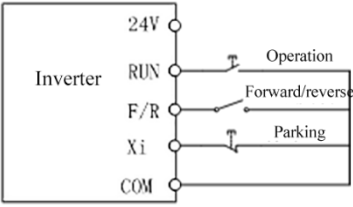
(a)

(F00.03=2)



(b)

(F04.19=0, F00.03=2)



(b)

(F00.03=3) (d)  
(F04.19=0, F00.03=3)

. 5-3



5.6

|        |   |   | . | .     |   |
|--------|---|---|---|-------|---|
| F00.01 | 1 | 0: V/F (VVF)<br>1: (SVC)  |   | 0     | ○ |
| F00.04 | A | 0:<br>F00.07<br>1: AI1<br>2: AI2<br>5: (X5)<br>6: %<br>7:<br>8: |   | 0     | ○ |
| F00.07 |   | 0.00 F00.16   |   | 0.00  | ● |
| F00.14 | 1 | 0.00~650.00 (F15.13=0)  |   | 15.00 | ● |
| F00.15 | 1 | 0.00~650.00 (F15.13=0)  |   | 15.00 | ● |
| F00.16 |   | 1.00~600.00   |   | 50.00 | ○ |
| F00.18 |   | F00.19 F00.16   |   | 50.00 | ● |
| F00.19 |   | 0.00 F00.18   |   | 0.00  | ● |
| F00.21 |   | 0:<br>1:  |   | 0     | ○ |

:

• •

• , •

● (E00.02  $\equiv 0$ )

● : ●

F01.34=1 RUN.

E01 34-2

RIUN

● : ●

# EM730 Series Inverter

F01.34=12

RUN.

2-

.

,

,

2

F14

F14.34.

6

6.1

EM730

| E01 |   | 1.<br>2.<br>3.<br>4.<br>5.<br>6.                   | 1.<br>2.<br>3.<br>4.                        |
|-----|---|--|---|
| E02 |   | 1.<br>2. V/F<br>V/F.<br>3.<br>4.<br>5.<br>6.<br>7. | 1.<br>2. V/F.<br>3.<br>4.<br>5.<br>6.<br>7. |
| E04 |   | E02  | E02   |
| E05 | U | 1.   | 1.  |

|             |  |                               |                                     |
|-------------|--|-------------------------------|-------------------------------------|
|             |  | 2.<br>3.<br>4.<br>5.          | 2.<br>3.<br>4.<br>5.<br>F15.30 = 1, |
| <i>E06</i>  |  | 1.<br>2.<br>3.<br>4.          | 1.<br>2.<br>3.                      |
| <i>E07</i>  |  | 1.<br>2.                      | 1.<br>2.<br>3.<br>4.                |
| <i>E08</i>  |  | 1. U, V W                     | 1.<br>2.<br>3.                      |
| <i>E09</i>  |  | 1.<br>2. V/F<br>3.<br>4. V/F. | 1.<br>2. V/F.<br>3.<br>4.           |
| <i>E 10</i> |  | 1.<br>2.                      | 1.                                  |

|             |  |                            |                                    |
|-------------|--|----------------------------|------------------------------------|
|             |  | 3.                         | 2.                                 |
|             |  |                            | 3.                                 |
| <i>E 11</i> |  | 1.                         | 1.                                 |
| <i>E 13</i> |  | 1.<br>2. V/F<br>3. V/F     | 1.<br>2. V/F.<br>3.                |
| <i>E 14</i> |  | 1.                         | 1.                                 |
| <i>E 15</i> |  | 1.<br>2.                   | 1. STOP/RESET<br>2.<br>F10.56 = 11 |
| <i>E 16</i> |  | 1.<br>2.                   | 1. F10.03 = 0.0<br>2. F10.03<br>3. |
| <i>E 17</i> |  |                            | 1.<br>2.                           |
| <i>E 18</i> |  | 1.<br>2.<br>3.<br>4.<br>5. | 1.<br>2.<br>3.<br>4.               |
| <i>E 19</i> |  |                            | 1.                                 |



|            |     |                                       |                                       |
|------------|-----|---------------------------------------|---------------------------------------|
| <i>E20</i> |     | 1.<br>2.<br>3.                        | 1.<br>2.<br>3.                        |
| <i>E21</i> | PID | 1. PID<br>(F09.24)<br>(F09.25),       | 1. PID<br>2.<br>3.<br><br>PID.        |
| <i>E24</i> |     | 1. STOP/RESET<br>2.<br>3.<br>4.<br>5. | 1. STOP/RESET<br>2.<br>3.<br>4.<br>5. |
| <i>E26</i> |     | 1.<br>2.<br>3.                        | 1、<br>2<br>3<br>F07.22<br>F07.23.     |
| <i>E27</i> |     | 1.                                    | 1.                                    |
| <i>E28</i> |     | 1.                                    | 1.                                    |
| <i>E44</i> |     | 1.                                    | 1.<br>2.                              |
| <i>E57</i> |     | 1. PID                                | 1.<br>2.                              |

|            |  |             |                |
|------------|--|-------------|----------------|
|            |  |             | 3.             |
| <i>E58</i> |  | 1. T<br>PID | 1.<br>2.<br>3. |
| <i>E76</i> |  | 1.<br>2.    | 1.<br>2.<br>3. |

STOP/RESET



;  
“E”.

o “EXX” “XX”.

,E01 1, E10 10.

” ” , :

|               |        |
|---------------|--------|
| ” ”           |        |
| <i>P.-ON</i>  |        |
| <i>P.-OFF</i> |        |
| <i>Soft.E</i> | SOFT.E |

6.2

, , ,  
:

6.2.1

●

,


●

,

F12.02 = 1 2,

F12.02 = 0.

6.2.2

●  ,

■ : F00.02.

■ FRS COM: FRS COM.

■

,

■

0.

■

● RUN F/R ,

■ :

■ FRS=ON: F00.02. FRS=OFF.

■ :

■ 0.

●

:

F00.21 =1,

● 。

：

### 6.2.3

● 。

，

，

，

●

### 6.2.4

● ，

■ ，

■ ，

(F15.32) ，

■ ，

● ，

■ ，

(F07.07)，

；

F07.07，

### 6.2.5

● ，

( )。

■ (F00.23)。

■

■

■

,

■

■

C

,

3.

6.2.6

●

,

30

A.

200

A

0.1

6.2.7

●

(F00.23)

●

(F05.13),

●

PID

P, Ti

Td

PID

PID.

6.2.8

●

■

(F04.21).

■

(F04.22). ,

6.2.9

●

,

; F00.16, F00.17 F00.18.

7

7.1

，  
， LED  
10  
7-1

7-1

|  |       | ( 4-6 / <sup>2</sup> ).     |
|--|-------|-----------------------------|
|  |       |                             |
|  | 20000 |                             |
|  |       | r ( : 4-6 / <sup>2</sup> ). |
|  |       |                             |

7-2

|  | ( ) |
|--|-----|
|  | 2-3 |
|  | 4-5 |
|  | 5-8 |

：  
： 30℃.

: 80%.  
: 12 .

7.2

18 .  
18 ,

- :  
;
- - , ,  
;
- ;
- .



## 8.1

$$\mathbf{Pb} = \mathbf{P} \times \mathbf{D}$$

**D=10%**

**D=5%**

**D = 10%      15%**

**D = 5%      20%**

**D = 10%      20%**

**D = 50%      60%      .**

**D = 50%      60%      -**  
**100**

EM730

10% 20%.

/

| 1            | )    | (Ω)  | ( )   | ( <sup>2</sup> ) |
|--------------|------|------|-------|------------------|
| EM730-0R4-2B | 0.4  | ≧360 | ≧200  | 1                |
| EM730-0R7-2B | 0.75 | ≧180 | ≧400  | 1.5              |
| EM730-1R5-2B | 1.5  | ≧180 | ≧400  | 1.5              |
| EM730-2R2-2B | 2.2  | ≧90  | ≧800  | 2.5              |
| EM730-0R7-3B | 0.75 | ≧360 | ≧200  | 1                |
| EM730-1R5-3B | 1.5  | ≧180 | ≧400  | 1.5              |
| EM730-2R2-3B | 2.2  | ≧180 | ≧400  | 1.5              |
| EM730-4R0-3B | 4    | ≧90  | ≧800  | 2.5              |
| EM730-5R5-3B | 5.5  | ≧60  | ≧1000 | 4                |
| EM730-7R5-3B | 7.5  | ≧60  | ≧1000 | 4                |
| EM730-011-3B | 11   | ≧30  | ≧2000 | 6                |
| EM730-015-3B | 15   | ≧30  | ≧2000 | 6                |
| EM730-018-3B | 18.5 | ≧30  | ≧2000 | 6                |
| EM730-022-3B | 22   | ≧15  | ≧4000 | 6                |
| EM730-030-3B | 30   | ≧10  | ≧4000 | 6                |
| EM730-037-3B | 37   | ≧10  | ≧6000 | 6                |

8.2

EM730 (EM730-045-3 ),  
BR100 ( : 18.5-160 ).

|           |  | (Ω) | I <sub>av</sub> (A) | I <sub>max</sub> (A) | ( )       |
|-----------|--|-----|---------------------|----------------------|-----------|
| BR100-045 |  | 10  | 45                  | 75                   | 18.5 - 45 |
| BR100-160 |  | 6   | 75                  | 150                  | 55 - 160  |

★ BR100-160 ,  
D=33%.  
D>33%, ;

8.2.1

>400VDC

3

|           | $I_{av}(A)$ | $I_{max}(A)$ | $(mm^2)$ |
|-----------|-------------|--------------|----------|
| BR100-045 | 45          | 75           | 10       |
| BR100-160 | 75          | 150          | 16       |
| BR100-315 | 120         | 300          | 25       |

6.3 Wi-Fi

730 Wi-Fi : EM730-WIFI.

Wi-Fi EM730.

Wi-Fi :



9

9.1

EM730 21 , F18 ; F19 - ; 3 ;

|     |   |      |     |     |      |
|-----|---|------|-----|-----|------|
| F00 |   | P61  | F01 | 1   | P64  |
| F02 |   | P65  | F03 |     | P69  |
| F04 | / | P71  | F05 | V/F | P73  |
| F06 |   | P75  | F07 |     | P80  |
| F08 |   | P83  | F09 | PID | P88  |
| F10 |   | P90  | F11 |     | P92  |
| F12 |   | P92  | F13 |     | P95  |
| F14 | 2 | P96  | F15 |     | P96  |
| F16 |   | P100 | F17 | I/O | P101 |
| F18 |   | P101 | F19 |     | P103 |
| F27 | / | P105 |     |     |      |

★ 0. ,

9.2

| <b>F00</b> |   |   |  |   |   |
|------------|---|---|--|---|---|
| F00.00     |   |   |  |   |   |
| F00.01     | 1 | 0: V/F (VVF)<br>1: (SVC)  |  | 0 | ○ |
| F00.02     |   | 0: (LOC/REM : ON)<br>1: (LOC/REM : OFF)<br>2: (LOC/REM : )  |  | 0 | ○ |
| F00.03     |   | 0: RUN ( ) F/R ( / )<br>1: RUN (f ) F/R ( )<br>2: RUN ( ), Xi ( ) and F/R<br>( )<br>3: RUN ( ), Xi ( ) and F/R<br>( / ) |  | 0 | ○ |
| F00.04     |   | 0: F00.07<br>1: AI1<br>2: AI2<br>3:<br>4:<br>5: (X5)<br>6: (%)<br>7:<br>( )<br>8:                                       |  | 8 | ○ |
| F00.05     | B | 0: F00.07<br>1: AI1<br>2: AI2<br>3:<br>4:<br>5: (X5)<br>6: (%)<br>7:<br>( )<br>8:<br>9:<br>10:<br>11:                   |  | 0 | ○ |
| F00.06     |   | 0: A  |  | 0 | ○ |

## EM730

|        |           |   |   |       |   |
|--------|-----------|---|---|-------|---|
|        |           | 1: B<br>2: . . F00.08<br>3: B<br>4: A<br>5:<br>6: B +<br>( )                |   |       |   |
| F00.07 |           | 0.00 F00.16   |   | 50.00 | ● |
| F00.08 |           | 0: A +<br>B<br>1: A -<br>B<br>2:<br>3:                                      |   | 0     | ○ |
| F00.09 | ( F00.05) | 0:<br>1: A  |   | 0     | ○ |
| F00.10 | .         | 0.0~300.0   | % | 100.0 | ● |
| F00.11 | .         | 0.0~300.0   | % | 100.0 | ● |
| F00.12 |           | 0.0~300.0   | % | 100.0 | ● |
| F00.13 |           | 0:<br>1: AI1 * s<br>2: AI2 *<br>3:<br>4:<br>5: (PULSE) *                    |   | 0     | ○ |
| F00.14 | 1         | 0.00 - 650.00 (F15.13=0)<br>0.0 - 6500.0 (F15.13=1)<br>0 - 65000 (F15.13=2) |   | 15.00 | ● |
| F00.15 | 1         | 0.00 - 650.00 (F15.13=0)<br>0.0 - 6500.0 (F15.13=1)<br>0 - 65000 (F15.13=2) |   | 15.00 | ● |
| F00.16 |           | 1.00~600.00/1.0~3000.0  |   | 50.00 | ○ |
| F00.17 |           | 0: F00.18   |   | 0     | ○ |

## EM730

|            |          |  |  |                     |   |
|------------|----------|--|--|---------------------|---|
|            |          | 1: AI1<br>2: AI2<br>3:<br>4:<br>5: (X5)<br>6: (%)<br>7: ( )  |  |                     |   |
| F00.18     |          | F00.19<br>F00.16   |  | 50.00               | ● |
| F00.19     |          | 0.00 F00.18  |  | 0.00                | ● |
| F00.20     |          | 0:<br>1:   |  | 0                   | ● |
| F00.21     |          | 0:<br>1:   |  | 0                   | ○ |
| F00.22     |          | 0.00～650.00  |  | 0.00                | ● |
| F00.23     |          | 1.0-16.0 ( : 0.75-4.00 )<br>1.0-10.0 ( : 5.50-7.50 )<br>1.0-8.0 ( 11.00 - 45.00 )<br>1.0-4.0 ( 55.00 - 90.00 )<br>1.0-3.0 ( : 110.00 ) |  | 4.0 (0.75 )<br>/2.0 | ● |
| F00.24     |          | 0:<br>1: 1<br>2: 2   |  | 1                   | ○ |
| F00.25     |          | 0:<br>1:   |  | 0                   | ○ |
| F00.26     |          | 20～200   |  | 40                  | ● |
| F00.27     |          | 10～150   |  | 100                 | ● |
| F00.28     |          | 0: 1<br>1: 2   |  | 0                   | ○ |
| F00.29     |          | 0 - 65535  |  | 0                   | ○ |
| F00.31     |          | 0: 0.01<br>1: 0.1 ( : 10 / )   |  | 0                   | ○ |
| F00.35     |          | 0: 380<br>1: 440   |  | 0                   | ○ |
| <b>F01</b> | <b>1</b> |  |  |                     |   |
| F01.00     |          | 0:<br>1:<br>2:   |  | 0                   | ○ |
| F01.01     |          | 0.10～650.00  |  |                     | ○ |
| F01.02     |          | 50～2000  |  |                     | ○ |

## EM730

|        |     |  |          |       |   |
|--------|-----|--|----------|-------|---|
|        |     |  |          |       |   |
| F01.03 |     | 0.01 - 600.00 ( $\leq 75$ )<br>0.1 - 6000.0 ( $> 75$ )   | A        |       | ○ |
| F01.04 |     | 0.01~600.00  |          |       | ○ |
| F01.05 |     | 1~60000  | /        |       | ○ |
| F01.06 |     | 0:Y<br>1:A   |          |       | ○ |
| F01.07 | cos | 0.600~1.000  |          |       | ○ |
| F01.08 |     | 30.0~100.0   | %        |       | ○ |
| F01.09 |     | 1-60000 ( $\leq 75$ )<br>0.1-6000.0 ( $> 75$ )           | $\Omega$ |       | ○ |
| F01.10 |     | 1-60000 ( $\leq 75$ )<br>0.1-6000.0 ( $> 75$ )           | $\Omega$ |       | ○ |
| F01.11 |     | 0.01 - 600.00 ( $\leq 75$ )<br>0.001 - 60.000 ( $> 75$ ) |          |       | ○ |
| F01.12 |     | 0.1 to 6000.0 ( $\leq 75$ )<br>0.01 to 600.00 ( $> 75$ ) |          |       | ○ |
| F01.13 |     | 0.01 to 600.00 ( $\leq 75$ )<br>0.1 to 6000.0 ( $> 75$ ) | A        |       | ○ |
| F01.14 | . 1 | 10.00 - 100.00   | %        | 87.00 | ○ |
| F01.15 | . 2 | 10.00 - 100.00   | %        | 80.00 | ○ |
| F01.16 | . 3 | 10.00 - 100.00   | %        | 75.00 | ○ |
| F01.17 | . 4 | 10.00 - 100.00   | %        | 72.00 | ○ |



EM730

|        |     |  |   |       |   |
|--------|-----|--|---|-------|---|
| F01.18 | .5  | 10.00 - 100.00   | % | 70.00 | ○ |
| F01.19 |     | 1-60000 ( : ≤ 75 )<br>0.1 - 6000.0 ( : > 75 )          | Ω |       | ○ |
| F01.20 | d   | 0.01 - 600.00 ( : ≤ 75 )<br>0.001 - 60.000 ( : > 75 )  |   |       | ○ |
| F01.21 | q   | 0.01~600.00 ( : 75 )<br>0.001~60.000 ( : > 75 )        |   |       | ○ |
| F01.22 |     | 10.0-2000.0 ( )  |   |       | ○ |
| F01.23 |     | 0.0-359.9 ( )  |   |       | ○ |
| F01.34 |     | 00:<br>01:<br>02:<br>03:<br>11:<br>12:<br>13:          |   | 00    | ○ |
| F02    |     |  |   |       |   |
| F02.00 | 1   | 0: ; 1: (RUN);<br>2: (F/R); 3: 3-                      |   | 1     | ○ |
| F02.01 | 2   | ; 4: JOG ; 5: JOG ;<br>6: ; 7: ;<br>8: ;<br>9: ; 10:   |   | 2     | ○ |
| F02.02 | 3   | 11: 1<br>12: 2   |   | 11    | ○ |
| F02.03 | 4   | 13: 3<br>14: 4   |   | 12    | ○ |
| F02.04 | 5   | 15: PID 1<br>16: PID 2                                 |   | 13    | ○ |
| F02.07 | AI1 | 17: 1<br>18: 2<br>19: 1<br>20: 2                       |   | 0     | ○ |
| F02.08 | AI2 | 21: 1<br>22: 2<br>23: RUN<br>24: RUN<br>25: RUN<br>26: |   | 0     | ○ |

|  |  |        |         |     |   |
|--|--|--------|---------|-----|---|
|  |  | 27:    |         |     |   |
|  |  | 28:    |         | /   |   |
|  |  | 29:    |         |     |   |
|  |  | 30:    | 1 /     | 2   |   |
|  |  | 31:    | (       |     | ) |
|  |  | 32:    | (       |     | ) |
|  |  | 33:    |         |     |   |
|  |  | 34:    | (≤250 ) |     |   |
|  |  | 35:    | (≤100 , | X5) |   |
|  |  | 36:    |         |     |   |
|  |  | 37:    | (≤250 ) |     |   |
|  |  | 38:    | (≤100 , | X5) |   |
|  |  | 39:    |         |     |   |
|  |  | 40:    | (≤100 , | X5) |   |
|  |  | 41:    |         |     |   |
|  |  | 42:    |         |     |   |
|  |  | 43:    |         |     |   |
|  |  | 44:    | (       | /   | ) |
|  |  | 45:    |         |     |   |
|  |  | 46:    |         |     |   |
|  |  | 47:    |         |     |   |
|  |  | 48:    |         |     |   |
|  |  | 49:    |         |     |   |
|  |  | 50:    |         |     |   |
|  |  | 51:    |         |     |   |
|  |  | 52:    |         |     |   |
|  |  | AI1    |         |     |   |
|  |  | 53:    |         |     |   |
|  |  | to AI2 |         |     |   |
|  |  | 54:    |         |     |   |
|  |  | 55:    |         |     |   |
|  |  | 56:    |         |     |   |
|  |  | 57:    |         |     |   |
|  |  | 68:    |         |     |   |
|  |  | 69:    |         |     |   |
|  |  | 70:    |         |     |   |
|  |  | 121:   |         |     |   |
|  |  | 122:   |         |     |   |
|  |  | 123:   |         |     |   |

## EM730

|        |       |   |    |    |    |    |    |     |     |   |       |   |
|--------|-------|---|----|----|----|----|----|-----|-----|---|-------|---|
| F02.15 | / . 1 | D7  | D6 | D5 | D4 | D3 | D2 | D1  | D0  |   | 00000 | ○ |
|        |       | *   | *  | *  | X5 | X4 | X3 | X2  | X1  |   |       |   |
|        |       | 0: , NO,<br>NC<br>1: , NO,<br>NC                            |    |    |    |    |    |     |     |   |       |   |
| F02.16 | / . 2 | D7  | D6 | D5 | D4 | D3 | D2 | D1  | D0  |   | 00    | ○ |
|        |       | *   | *  | *  | *  | *  | *  | AI2 | AI1 |   |       |   |
|        |       | 0: , NO,<br>NC<br>1: , NO,<br>NC                            |    |    |    |    |    |     |     |   |       |   |
| F02.17 |       | 0-100, 0: ; n: n  |    |    |    |    |    |     |     |   | 2     | ○ |
| F02.18 | X1    | 0.000-30.000  |    |    |    |    |    |     |     |   | 0.000 | ● |
| F02.19 | X1    | 0.000-30.000  |    |    |    |    |    |     |     |   | 0.000 | ● |
| F02.20 | X2    | 0.000-30.000  |    |    |    |    |    |     |     |   | 0.000 | ● |
| F02.21 | X2    | 0.000-30.000  |    |    |    |    |    |     |     |   | 0.000 | ● |
| F02.22 | X3    | 0.000-30.000  |    |    |    |    |    |     |     |   | 0.000 | ● |
| F02.23 | X3    | 0.000-30.000  |    |    |    |    |    |     |     |   | 0.000 | ● |
| F02.24 | X4    | 0.000-30.000  |    |    |    |    |    |     |     |   | 0.000 | ● |
| F02.25 | X4    | 0.000-30.000  |    |    |    |    |    |     |     |   | 0.000 | ● |
| F02.26 |       | 0.00 - F02.28   |    |    |    |    |    |     |     |   | 0.00  | ● |
| F02.27 |       | -100.0 - +100.0   |    |    |    |    |    |     |     | % | 0.0   | ● |
| F02.28 |       | 0.01-100.00   |    |    |    |    |    |     |     |   | 50.00 | ● |
| F02.29 |       | -100.0 - +100.0   |    |    |    |    |    |     |     | % | 100.0 | ● |
| F02.30 |       | 0.00 - 10.00  |    |    |    |    |    |     |     |   | 0.10  | ● |
| F02.31 |       | : AI1<br>0:<br>1: (0 1 , 1 3 , 3 )<br>: AI2<br>0:<br>1: ( ) |    |    |    |    |    |     |     |   | 00    | ○ |

## EM730

|        |     |  |   |        |   |
|--------|-----|--|---|--------|---|
| F02.32 |     | AI1<br>0: 1<br>1: 2<br>2: 3<br>3: 4<br>AI2<br>0: 1<br>1: 2<br>2: 3<br>3: 4 |   | 01     | ○ |
| F02.33 | .   | 1 0.00 - F02.35  |   | 0.10   | ● |
| F02.34 | .   | 1 -100.0 - +100.0  | % | 0.0    | ● |
| F02.35 | .   | 1 F02.33~10.00   |   | 9.90   | ● |
| F02.36 | .   | 1 -100.0 - +100.0  | % | 100.0  | ● |
| F02.37 | .   | 2 -10.00V~F02.39   |   | 0.10   | ● |
| F02.38 | .   | 2 -100.0 - +100.0  | % | 0.0    | ● |
| F02.39 | .   | 2 F02.37~10.00   |   | 9.90   | ● |
| F02.40 | .   | 2 -100.0 - +100.0  | % | 100.0  | ● |
| F02.41 | .   | 3 0.00V - F02.43   |   | 0.10   | ● |
| F02.42 | .   | 3 -100.0 - +100.0  | % | 0.0    | ● |
| F02.43 | 1 3 | F02.41 - F02.45  |   | 2.50   | ● |
| F02.44 | 1 3 | -100.0 - +100.0  | % | 25.0   | ● |
| F02.45 | 2 3 | F02.43 - F02.47  |   | 7.50   | ● |
| F02.46 | 2 3 | -100.0 - +100.0  | % | 75.0   | ● |
| F02.47 | .   | 3 F02.45 - 10.00   |   | 9.90   | ● |
| F02.48 | .   | 3 -100.0 - +100.0  | % | 100.0  | ● |
| F02.49 | .   | 4 -10.00 - F02.51  |   | -9.90  | ● |
| F02.50 | .   | 4 -100.0 - +100.0  | % | -100.0 | ● |
| F02.51 | 1 4 | F02.49 - F02.53  |   | -5.00  | ● |
| F02.52 | 1 4 | -100.0 - +100.0  | % | -50.0  | ● |
| F02.53 | 2 4 | F02.51 - F02.55  |   | 5.00   | ● |
| F02.54 | 2 4 | -100.0 - +100.0  | % | 50.0   | ● |
| F02.55 | .   | 4 F02.53 - 10.00   |   | 9.90   | ● |
| F02.56 | .   | 4 -100.0 - +100.0  | % | 100.0  | ● |

## EM730

|            |               |   |  |      |   |
|------------|---------------|---|--|------|---|
| F02.57     | AI1           | 0.00 - 10.00  |  | 0.10 | ● |
| F02.58     | AI2           | 0.00 - 10.00  |  | 0.10 | ● |
| F02.61     | AD            | 2 - 50  |  | 2    | ○ |
| F02.62     | AI1           | 0: 0~10<br>3: -10~10<br>4: 0~5  |  | 0    | ○ |
| F02.63     | AI2           | 0: 0~10<br>1: 4~20 A<br>2: 0~20 A<br>4: 0~5   |  | 0    |   |
| F02.66     | AI2           | 0: 500Ω<br>1: 250Ω  |  | 0    | ○ |
| <b>F03</b> |               |   |  |      |   |
| F03.00     | Y1            | 0:  |  | 1    | ○ |
| F03.02     | R1 (EA-EB-EC) | 1: (RUN)<br>2: (FAR)<br>3: FDT1<br>4: FDT2<br>5: (REV)<br>6: jog<br>7:<br>8: (READY)<br>9:<br>10:<br>11:<br>12:<br>13:<br>14:<br>15:<br>16: ( )<br>17:<br>18:<br>19: .<br>20: .<br>21: ADT1<br>22: ADT2<br>24:<br>26:<br>27:<br>38:<br>40:<br>41:<br>42:<br>47:<br>67:<br>68: / |  | 7    | ○ |

EM730

|        |     |  |  |       |   |
|--------|-----|--|--|-------|---|
|        |     | 69: FDT1 ( )<br>70: FDT2 ( )<br>71: JOG) FDT1 ( ,<br>72: JOG) FDT2 ( ,<br>73:                  |  |       |   |
| F03.05 |     | D7 D6 D5 D4 D3 D2 D1 D0<br>* * * * * R1 * Y1   |  | 0*0   | ○ |
|        |     | 0:<br>1:   |  |       |   |
|        |     |  |  |       |   |
| F03.06 | /   | D7 D6 D5 D4 D3 D2 D1 D0<br>* * * * * R1 * Y1   |  | 0*0   | ○ |
|        |     | 0:<br>1:   |  |       |   |
|        |     |  |  |       |   |
| F03.08 | JOG | D7 D6 D5 D4 D3 D2 D1 D0<br>* * * REV FDT2 FDT 1 FAR RUN  |  | 00000 | ○ |
|        |     | 0: JOG<br>1: JOG   |  |       |   |
|        |     |  |  |       |   |
| F03.09 | Y1  | 0.000~30.000   |  | 0.000 | ● |
| F03.10 | Y1  | 0.000~30.000   |  | 0.000 | ● |
| F03.13 | R1  | 0.000~30.000   |  | 0.000 | ● |
| F03.14 | R1  | 0.000~30.000   |  | 0.000 | ● |
| F03.17 | Y1  | 0.001~30.000   |  | 0.250 | ● |
| F03.19 | R1  | 0.001~30.000   |  | 0.250 | ● |
| F03.21 | M1  | 0: ( )<br>1: ( )<br>2: ( )<br>3: ( )<br>4:<br>5:<br>6:<br>7:<br>8: AI1<br>9: AI2<br>12: ( 100% |  | 0     | ○ |

EM730

|        |    |   |   |       |   |
|--------|----|---|---|-------|---|
|        |    | 13: 100.00kHz)<br>14: 1<br>15: PID<br>16: PID<br>17: PID<br>18: PID<br>19: PID<br>20: 2 |   |       |   |
| F03.27 | M1 | -100.0~100.0  | % | 0.0   | ● |
| F03.28 | M1 | -10.000~10.000  |   | 1.000 | ● |
| F03.31 |    | D7 D6 D5 D4 D3 D2 D1 D0   |   | 0*0   | ○ |
|        |    | * * * * *   |   |       |   |
|        |    | R1 * Y1   |   |       |   |
| F03.34 | M1 | 0: 0~10<br>1: 4~20 A<br>2: 0~20 A   |   | 0     | ○ |
|        |    |   |   |       |   |
|        |    |   |   |       |   |

| F04 /  |   |                                |   |       |   |
|--------|---|--------------------------------|---|-------|---|
| F04.00 |   | 0:<br>1:                       |   | 0     | ○ |
| F04.01 | . | 0.00 - 10.00                   |   | 0.00  | ○ |
| F04.02 | . | 0.00-60.00, 0.00               |   | 0.00  | ○ |
| F04.03 |   | 0.0~100.0 (100.0 = )           | % | 100.0 | ○ |
| F04.04 | . | 0.00~30.00, 0.00:              |   | 0.00  | ○ |
| F04.06 |   | 50.0-500.0 (100.0 = )          | % | 100.0 | ○ |
| F04.07 |   | 0.00 - 10.00                   |   | 0.10  | ○ |
| F04.08 |   | :<br>0:<br>1:<br>2:<br>:<br>0: |   | 01    | ○ |

## EM730

|        |    |   |   |       |   |
|--------|----|---|---|-------|---|
|        |    | 1:  |   |       |   |
| F04.10 |    | 0.1 - 20.0  |   | 2.0   | ○ |
| F04.11 |    | 30.0-150.0 (100.0 = )   | % | 50.0  | ○ |
| F04.12 |    | 0.00 - 10.00  |   | 1.00  | ○ |
| F04.14 |    | 0:<br>1: S-<br>2: - S-  |   | 0     | ○ |
| F04.15 | S- | 0.00~30.00(F15.13=0)<br>0.0~300.0(F15.13=1)<br>0~3000(F15.13=2) |   | 1.00  | ● |
| F04.16 | S- | 0.00~30.00(F15.13=0)<br>0.0~300.0(F15.13=1)<br>0~3000(F15.13=2) |   | 1.00  | ● |
| F04.17 | S- | 0.00~30.00(F15.13=0)<br>0.0~300.0(F15.13=1)<br>0~3000(F15.13=2) |   | 1.00  | ● |
| F04.18 | S- | 0.00~30.00(F15.13=0)<br>0.0~300.0(F15.13=1)<br>0~3000(F15.13=2) |   | 1.00  | ● |
| F04.19 |    | 0:<br>1:  |   | 0     | ○ |
| F04.20 |    | 0.00 - F00.16   |   | 0.00  | ○ |
| F04.21 |    | 0.0~100.0 (100.0 = )  | % | 50.0% | ○ |
| F04.22 | .  | 0.00~30.00 0.00:  |   | 0.00  | ○ |
| F04.23 | .  | 0.00 - 30.00  |   | 0.50  | ○ |



## EM730

|            |            |   |   |      |   |
|------------|------------|---|---|------|---|
| F04.24     |            | 100-150 (100: )   |   | 100  | ○ |
| F04.26     | /          | 0: F04.00<br>1:   |   | 0    | ○ |
| F04.27     | -          | 0:<br>1:  |   | 0    | ○ |
| F04.29     |            | 0.00 - 5.00   |   | 0.25 | ● |
| F04.30     |            | 0:<br>1: 1  |   | 0    | ● |
| <b>F05</b> | <b>V/F</b> |   |   |      |   |
| F05.00     | V/F        | 0: V/F<br>1: V/F<br>2: 1.3 V/F<br>3: 1.7 V/F<br>4: V/F ( ,<br>(<br>5: )<br>Uq = K*t, (Ud = 0, F05.07)<br>6: V/F=2*X*<br>( ) / ( ),<br>= 0.00 - 100% |   | 0    | ○ |
| F05.01     | F1<br>V/F  | 0.00 - F05.03   |   | 0.50 | ● |
| F05.02     | V1 V/F     | 0.0~100.0 (100.0 = )  | % | 1.0  | ● |
| F05.03     | F2<br>V/F  | F05.01~F05.05   |   | 2.00 | ● |
| F05.04     | V2 V/F     | 0.0-100.0   | % | 4.0  | ● |
| F05.05     |            | F05.03 -  |   | 5.00 | ● |

## EM730

|        |           |   |   |        |   |
|--------|-----------|---|---|--------|---|
|        | F3<br>V/F |   |   |        |   |
| F05.06 | V3 V/F    | 0.0-100.0   | % | 10.0   | ● |
| F05.07 | V/F       | 0:<br>1: AI1<br>2: AI2<br>4: (X5)<br>5:<br>6:<br>: 100% |   | 0      | ○ |
| F05.08 | V/F       | 0.0-100.0 (100.0 = )                                    | % | 0.0    | ● |
| F05.09 | - U 0     | 0.00 - 60.00  | s | 2.00   | ● |
| F05.10 | V/F       | 0.00 - 200.00   | % | 100.00 | ● |
| F05.11 | V/F       | 0.00 - 200.00   | % | 100.00 | ● |
| F05.12 | V/F       | 0.00 - 10.00  |   | 1.00   | ● |
| F05.13 |           | 0 - 10000   |   | 100    | ● |
| F05.14 |           | 0.00-600.00   |   | 55.00  | ● |
| F05.15 |           | 0.00 - 10.00  |   | 0.00   | ● |
| F05.16 |           | 0.00 - 50.00  | % | 0.00   | ● |
| F05.17 |           | 1.00 - 60.00  |   | 5.00   | ● |
| F05.18 |           | 0.00~500.00   | % | 0.00   | ● |

## EM730

|            |        |                                      |   |        |   |
|------------|--------|--------------------------------------|---|--------|---|
|            |        |                                      |   |        |   |
| F05.19     |        | 0.00 - 10.00                         |   | 0.50   | ● |
| F05.20     | V/F    | -500.0~+500.0                        | % | 0.0    | ● |
| <b>F06</b> |        |                                      |   |        |   |
| F06.00     | ASR_P1 | 0.00-100.00                          |   | 12.00  | ● |
| F06.01     | ASR_T1 | 0.000-30.000<br>0.000:               |   | 0.200  | ● |
| F06.02     | ASR_P2 | 0.00-100.00                          |   | 8.00   | ● |
| F06.03     | ASR_T2 | 0.000-30.000<br>0.000:               |   | 0.300  | ● |
| F06.04     | 1      | 0.00 2                               |   | 5.00   | ● |
| F06.05     | 2      | 1 - F00.16                           |   | 10.00  | ● |
| F06.06     |        | 50.0~300.0                           | % | 100.0  | ● |
| F06.07     |        | 0.000 - 0.100                        | s | 0.001  | ● |
| F06.08     |        | 50.00-200.00                         | % | 100.00 | ● |
| F06.09     |        | 0: F06.10 F06.11<br>1: AI1<br>2: AI2 |   | 0      | ○ |

EM730

|        |        |  |   |       |   |
|--------|--------|--|---|-------|---|
|        |        | 3:<br>4:<br>5: (%)<br>6: AI1 AI2<br>7: AI1 AI2 |   |       |   |
| F06.10 |        | 0.0 - 250.0                                    | % | 165.0 | ● |
| F06.11 |        | 0.0 - 250.0                                    | % | 165.0 | ● |
| F06.12 | ACR-P1 | 0.00-100.00                                    |   | 0.50  | ● |
| F06.13 | ACR-T1 | 0.00-600.00<br>0.00:                           |   | 10.00 | ● |
| F06.14 | ACR-P2 | 0.00-100.00                                    |   | 0.50  | ● |
| F06.15 | ACR-T2 | 0.00-600.00<br>0.00:                           |   | 10.00 | ● |
| F06.17 |        | 0:<br>1:<br>2: IGBT                            |   | 2     | ○ |
| F06.18 |        | 50.0-400.0 (100.0 - )                          | % | 100.0 | ○ |
| F06.20 |        | 0 - 100  | % | 0     | ● |
| F06.21 |        | 0:<br>1:<br>2:                                 |   | 2     | ○ |
| F06.22 |        | 70.00-100.00                                   | % | 95.00 | ● |

## EM730

|        |          |                         |   |                             |   |
|--------|----------|-------------------------|---|-----------------------------|---|
|        |          |                         |   |                             |   |
| F06.23 | -        | 0.0-150.0 (100.0 - )    | % | 100.0                       | ● |
| F06.24 | -        | 0.00 - 10.00            |   | 0.50                        | ● |
| F06.25 | -        | 0.01 - 60.00            |   | 2.00                        | ● |
| F06.26 | MTPA     | 0:<br>1:                |   | 1                           | ○ |
| F06.27 |          | 0 - 200                 | % | 100                         | ● |
| F06.28 | , -<br>- | 0.00-100.00 (100.00 - ) | % | 10.00                       | ● |
| F06.29 | -        | 0.0-60.0 (100.0 )       | % | 20.0<br>40.0-(F16.0<br>0=2) | ● |
| F06.30 | -        | 0.00 - 10.00            |   | 0.50                        | ● |
| F06.31 | -<br>-   | 0.00 - 300.00           |   | 10.00                       | ● |
| F06.32 | ,        | 0.00-100.00 (100.00 - ) | % | 20.00                       | ● |

EM730

|        |        |                   |   |       |   |
|--------|--------|-------------------|---|-------|---|
|        | -<br>- |                   |   |       |   |
| F06.33 | -      | 0.0-30.0 (100.0 ) | % | 8.0   | ● |
| F06.34 | -      | 0.00 - 10.00      |   | 0.50  | ● |
| F06.35 | -<br>- | 0.00 - 300.00     |   | 10.00 | ● |
| F06.36 |        | 0.00~1.00         |   | 0.75  | ○ |
| F06.37 |        | 0~20              |   | 12    | ● |
| F06.38 |        | 1.00~3.70         |   | 3.50  | ○ |
| F06.39 |        | 0.005~0.100       |   | 0.100 | ○ |
| F06.40 | -      | 0.0~20.0          | % | 10.0  | ○ |
| F06.41 | .      | 0: V/F<br>1: I/F  |   | 0     | ○ |

## EM730

|        |       | 2: I/F<br>V/F |   |       |   |
|--------|-------|---------------|---|-------|---|
| F06.42 | -     | 0.0 - 50.0    | % | 8.0   | ○ |
| F06.43 | I/F - | 0.0 - 600.0   | % | 50.0  | ○ |
| F06.44 |       | 0.0 - 6000.0  |   | 1.0   | ○ |
| F06.45 |       | 0.0~359.9     | ° | 30.0  | ○ |
| F06.46 | -     | 0.00 - 10.00  |   | 1.00  | ○ |
| F06.47 |       | 0.00 - 10.00  |   | 1.00  | ○ |
| F06.48 |       | 0.00 - 10.00  |   | 0.40  | ○ |
| F06.49 |       | 1.0 - 100.0   |   | 5.0   | ○ |
| F06.50 |       | 0.00 - 10.00  |   | 0.20  | ○ |
| F06.51 |       | 0.010 - 1.000 |   | 0.020 | ○ |

EM730

|        |   |  |  |  |  |  |  |  |  |   |              |   |
|--------|---|--|--|--|--|--|--|--|--|---|--------------|---|
|        | - |  |  |  |  |  |  |  |  |   |              |   |
| F06.76 |   | 10.0~500.0   |  |  |  |  |  |  |  | % | 100.0        | ● |
| F06.77 |   | 10.0~500.0   |  |  |  |  |  |  |  | % | 100.0        | ● |
| F06.78 |   | 0.10~  |  |  |  |  |  |  |  |   | 5.00         | ○ |
| F07    |   |  |  |  |  |  |  |  |  |   |              |   |
| F07.00 |   | <div><div>E20</div><div>*</div><div>E13</div><div>E06</div><div>*</div><div>E04</div><div>E07</div><div>E08</div></div> <div>0:<br/>1:</div> |  |  |  |  |  |  |  |   | 0*0<br>0*000 | ○ |
| F07.01 |   | 0.20 - 10.00   |  |  |  |  |  |  |  |   | 1.00         | ● |
| F07.02 |   | 50 - 100   |  |  |  |  |  |  |  | % | 80           | ● |
| F07.06 |   | <div>:<br/>0:<br/>1:<br/>2:<br/>:<br/>0:<br/>1:</div>  |  |  |  |  |  |  |  |   | 10           | ○ |
| F07.07 |   | 110.0 - 150.0 (380 , 100.0=537 )   |  |  |  |  |  |  |  | % | 131.0(703 )  | ○ |
| F07.08 |   | 60.0 -   |  |  |  |  |  |  |  | % | 76.0         | ○ |



EM730

|        |   |                               |   |       |   |
|--------|---|-------------------------------|---|-------|---|
|        |   | 100.0 = )                     |   |       |   |
| F07.09 | - | F07.08 - 100.0                | % | 86.0  | ● |
| F07.10 |   | 0.00-100.00                   |   | 0.50  | ● |
| F07.11 |   | 0:<br>1: 1<br>2: 2            |   | 2     | ○ |
| F07.12 |   | 20.0-180.0(100.0 = )          | % | 150.0 | ● |
| F07.13 |   | 0:<br>1:                      |   | 0     | ○ |
| F07.14 |   | 0-20; 0:                      |   | 0     | ○ |
| F07.15 |   | 0:<br>1:                      |   | 0     | ○ |
| F07.16 |   | 0.01 - 30.00                  |   | 0.50  | ● |
| F07.17 |   | 0.01 - 30.00                  |   | 10.00 | ● |
| F07.18 |   | E08 * E07 * E02 E06 E05 E04   |   | 0     | ○ |
|        |   | 0:                            |   | *0    |   |
|        |   | 1:                            |   | *0000 |   |
| F07.19 | 1 | E21 E16 E15 E14 E13 * E08 E07 |   | 000   | ○ |
|        |   | 0:                            |   | 00*00 |   |
|        |   | 1:                            |   |       |   |
| F07.20 | 2 | E28 E27 * E23                 |   | 00*0  | ○ |
|        |   | 0:                            |   |       |   |
|        |   | 1:                            |   |       |   |

EM730

|        |     |  |   |              |   |
|--------|-----|--|---|--------------|---|
| F07.21 |     | 0:<br>1:   |   | 0            | ● |
| F07.22 |     | 0.0-100.0  | % | 20.0         | ● |
| F07.23 |     | 0.0 - 60.0   |   | 1.0          | ● |
| F07.24 |     | 0:<br>1:<br>2:   |   | 1            | ○ |
| F07.25 |     | 0.0-50.0 ( : F00.16)   | % | 20.0         | ● |
| F07.26 |     | 0.0-60.0, 0.0:   |   | 1.0          | ● |
| F07.27 | AVR | 0:<br>1:<br>2:   |   | 1            | ○ |
| F07.28 |     | 0.0-6000.0(0.0:<br>)   |   | 0.0          | ○ |
| F07.29 |     | 0 - 100  | % | 20           | ○ |
| F07.30 |     | 0.00 - 300.00  |   | 20.00        | ○ |
| F07.32 | 2   | <div><div><div>E 10</div><div>E 13</div><div>E 15</div><div>E 16</div><div>*</div><div>E 19</div><div>E 20</div><div>*</div></div></div> |   | 000<br>00000 | ○ |
|        |     | 0:<br>1:   |   |              |   |
| F07.34 | 3   | <div><div><div>*</div><div>*</div><div>*</div><div>*</div><div>*</div><div>*</div><div>E 09</div><div>E 17</div></div></div>             |   | *****00      | ○ |
|        |     | 0:<br>1:   |   |              |   |
| F08    |     |  |   |              |   |
| F08.00 | 1   | 0.00 - F00.16  |   | 0.00         | ● |
| F08.01 | 2   | 0.00 - F00.16  |   | 5.00         | ● |
| F08.02 | 3   | 0.00 - F00.16  |   | 10.00        | ● |
| F08.03 |     | 0.00 - F00.16  |   | 15.00        | ● |

EM730

|        |    |   |  |       |   |
|--------|----|---|--|-------|---|
|        | 4  |   |  |       |   |
| F08.04 | 5  | 0.00 - F00.16                                 |  | 20.00 | ● |
| F08.05 | 6  | 0.00 - F00.16                                 |  | 25.00 | ● |
| F08.06 | 7  | 0.00 - F00.16                                 |  | 30.00 | ● |
| F08.07 | 8  | 0.00 - F00.16                                 |  | 35.00 | ● |
| F08.08 | 9  | 0.00 - F00.16                                 |  | 40.00 | ● |
| F08.09 | 10 | 00.00 - F00.16                                |  | 45.00 | ● |
| F08.10 | 11 | 0.00 - F00.16                                 |  | 50.00 | ● |
| F08.11 | 12 | 0.00 - F00.16                                 |  | 50.00 | ● |
| F08.12 | 13 | 0.00 - F00.16                                 |  | 50.00 | ● |
| F08.13 | 14 | 0.00 - F00.16                                 |  | 50.00 | ● |
| F08.14 | 15 | 0.00 - F00.16                                 |  | 50.00 | ● |
| F08.15 |    | 0:<br>1:<br>2:<br>3:                          |  | 0     | ● |
| F08.16 |    | 1 - 10000                                     |  | 1     | ● |
| F08.17 |    | 0: : ( )<br>1: ( )<br>0: : ( )<br>1: ( )<br>) |  | 00    | ● |
| F08.18 |    | 0:<br>1:                                      |  | 0     | ● |
| F08.19 |    | 0: :<br>1: :<br>0:                            |  | 00    | ● |
|        |    | 0: 1  |  |       |   |

EM730

|        |  |  |    |     |   |
|--------|--|--|----|-----|---|
|        |  | 1: 2<br>2: 3<br>3: 4                         |    |     |   |
| F08.20 |  | 0.0 - 6000.0                                 | /  | 5.0 | ● |
| F08.21 |  | 0: :<br>1: :<br>0: 1<br>1: 2<br>2: 3<br>3: 4 |    | 0   | ● |
| F08.22 |  | 0.0 - 6000.0                                 | c/ | 5.0 | ● |
| F08.23 |  | 0: :<br>1: :<br>0: 1<br>1: 2<br>2: 3<br>3: 4 |    | 0   | ● |
| F08.24 |  | 0.0 - 6000.0                                 | c/ | 5.0 | ● |
| F08.25 |  | 0: :<br>1: :<br>0: 1<br>1: 2<br>2: 3<br>3: 4 |    | 0   | ● |
| F08.26 |  | 0.0 - 6000.0                                 | c/ | 5.0 | ● |
| F08.27 |  | 0: :<br>1: :<br>:                            |    | 0   | ● |

EM730

|        |  |  |    |     |   |
|--------|--|--|----|-----|---|
|        |  | 0: 1<br>1: 2<br>2: 3<br>3: 4                       |    |     |   |
| F08.28 |  | 0.0 - 6000.0                                       | c/ | 5.0 | ● |
| F08.29 |  | :<br>0:<br>1:<br>:<br>0: 1<br>1: 2<br>2: 3<br>3: 4 |    | 0   | ● |
| F08.30 |  | 0.0 - 6000.0                                       | c/ | 5.0 | ● |
| F08.31 |  | :<br>0:<br>1:<br>:<br>0: 1<br>1: 2<br>2: 3<br>3: 4 |    | 0   | ● |
| F08.32 |  | 0.0 - 6000.0                                       | c/ | 5.0 | ● |
| F08.33 |  | :<br>0:<br>1:<br>:<br>0: 1<br>1: 2<br>2: 3<br>3: 4 |    | 0   | ● |
| F08.34 |  | 0.0 - 6000.0                                       | c/ | 5.0 | ● |
| F08.35 |  | :<br>0:<br>1:                                      |    | 0   | ● |

EM730

|        |  |  |                          |    |     |   |
|--------|--|--|--------------------------|----|-----|---|
|        |  | :<br>0:<br>1:<br>2:<br>3:                  | <br><br>1<br>2<br>3<br>4 |    |     |   |
| F08.36 |  | 0.0 - 6000.0                               |                          | c/ | 5.0 | ● |
| F08.37 |  | :<br>0:<br>1:<br>:<br>0:<br>1:<br>2:<br>3: | <br><br>1<br>2<br>3<br>4 |    | 0   | ● |
| F08.38 |  | 0.0 - 6000.0                               |                          | c/ | 5.0 | ● |
| F08.39 |  | :<br>0:<br>1:<br>:<br>0:<br>1:<br>2:<br>3: | <br><br>1<br>2<br>3<br>4 |    | 0   | ● |
| F08.40 |  | 0.0 - 6000.0                               |                          | c/ | 5.0 | ● |
| F08.41 |  | :<br>0:<br>1:<br>:<br>0:<br>1:<br>2:<br>3: | <br><br>1<br>2<br>3<br>4 |    | 0   | ● |
| F08.42 |  | 0.0 - 6000.0                               |                          | c/ | 5.0 | ● |
| F08.43 |  | :<br>0:                                    |                          |    | 0   | ● |

EM730

|            |   |   |                  |    |     |   |
|------------|---|---|------------------|----|-----|---|
|            |   | 1:<br>:<br>0:<br>1:<br>2:<br>3:                       | 1<br>2<br>3<br>4 |    |     |   |
| F08.44     |   | 0.0 - 6000.0  |                  | c/ | 5.0 | ● |
| F08.45     | - | :<br>:<br>0:<br>1:<br>2:<br>3:                        | 1<br>2<br>3<br>4 |    | 0   | ● |
| F08.46     | - | 0.0 - 6000.0  |                  | c/ | 5.0 | ● |
| F08.47     |   | :<br>:<br>0:<br>1:<br>2:<br>3:                        | 1<br>2<br>3<br>4 |    | 0   | ● |
| F08.48     |   | 0.0 - 6000.0  |                  | c/ | 5.0 | ● |
| <b>F09</b> |   |   |                  |    |     |   |
| F09.00     |   | 0:<br>1: AI1<br>2: AI2<br>3:<br>4:<br>5: , (X5)<br>6: |                  |    | 0   | ○ |
| F09.01     |   | 0.0   | F09.03           |    | 0.0 | ● |

## EM730

|        |     |   |   |       |   |
|--------|-----|---|---|-------|---|
| F09.02 |     | 1: AI1<br>2: AI2<br>3:<br>4:<br>5: , (X5)<br>6: |   | 1     | ○ |
| F09.03 |     | 0.1 - 6000.0 ( )                                |   | 100.0 | ● |
| F09.04 | /   | 0:<br>1:  |   | 0     | ○ |
| F09.05 |     | 0.00-100.00                                     |   | 0.40  | ● |
| F09.06 | . 1 | 0.000 - 30.000, 0.000:                          |   | 2.000 | ● |
| F09.07 | 1   | 0.000-30.000                                    |   | 0.000 | ● |
| F09.08 |     | 0.00-100.00                                     |   | 0.40  | ● |
| F09.09 | . 2 | 0.000 - 30.000, 0.000:                          |   | 2.000 | ● |
| F09.10 | 2   | 0.000-30.000                                    |   | 0.000 | ● |
| F09.11 |     | 0:<br>1:<br>2:<br>3:                            |   | 0     | ● |
| F09.12 | 1   | 0.00 - F09.13                                   | % | 20.00 | ● |
| F09.13 | 2   | F09.12 - 100.00                                 | % | 80.00 | ● |
| F09.14 |     | 0.00-100.00                                     | % | 0.00  | ● |
| F09.15 |     | 0.00~650.00                                     |   | 0.00  | ● |
| F09.16 |     | F9.17~+100.0                                    | % | 100.0 | ● |
| F09.17 |     | -100.0~F9.16                                    | % | 0.0   | ● |
| F09.18 | -   | 0.00-100.00 (0.00: )                            | % | 0.00  | ● |



EM730

|        |   |                           |   |        |   |
|--------|---|---------------------------|---|--------|---|
|        |   |                           |   |        |   |
| F09.19 |   | 0.00-100.00               | % | 5.00   | ● |
| F09.20 |   | 0.00-100.00 (100.00% = )  | % | 100.00 | ● |
| F09.21 |   | 0.000-30.000              |   | 0.000  | ● |
| F09.22 |   | 0.000-30.000              |   | 0.000  | ● |
| F09.23 |   | 0.000-30.000              |   | 0.000  | ● |
| F09.24 |   | 0.00-100.00; 100.00 =     | % | 100.00 | ● |
| F09.25 |   | 0.00-100.00; 0.00 =       | % | 0.00   | ● |
| F09.26 |   | 0.000-30.000              |   | 0.000  | ● |
| F09.27 |   | 0:<br>1:<br>2:<br>3: IGBT |   | 0      | ● |
| F09.28 |   | 0.00-100.00 (100.00 )     | % | 100.00 | ● |
| F09.29 |   | 0.0 - 6500.0              |   | 0.0    | ● |
| F09.30 |   | 0.00-100.00 (100.00 )     | % | 0.00   | ● |
| F09.31 |   | 0.0 - 6500.0              |   | 0.0    | ● |
| F09.32 | 1 | 0.0 - F09.03              |   | 0.0    | ● |
| F09.33 | 2 | 0.0 - F09.03              |   | 0.0    | ● |

## EM730

|            |     |   |     |       |   |
|------------|-----|---|-----|-------|---|
| F09.34     | 2   | 0.0 - F09.03  |     | 0.0   | ● |
| F09.35     | -   | ~10.00  |     | 10.00 | ● |
| F09.36     | -   | 0.00~   |     | 0.00  | ● |
| F09.37     |     | 0:<br>1:<br>2:<br>F09.38<br>F09.21                            |     | 0     | ● |
| F09.38     |     | 0.00-100.00   | %   | 0     | ● |
| F09.39     |     | 0: F09.01*<br>F09.40<br>1: F09.30                             |     | 0     | ○ |
| F09.40     |     | 0.0-100.0 (100% )   | %   | 90.0  | ● |
| F09.41     |     | 0.0 - F09.03  | bar | 6.0   | ● |
| F09.42     |     | 0-3600 (0: )  | c   | 3     | ● |
| F09.43     |     | 0:<br>1:  |     | 1     | ○ |
| <b>F10</b> |     |   |     |       |   |
| F10.00     |     | 1-247; 0:   |     | 1     | ○ |
| F10.01     | / , | 0:4800<br>1:9600<br>2:19200<br>3:38400<br>4:57600<br>5:115200 |     | 1     | ○ |
| F10.02     |     | 0: 1-8-N-1 (1 start bit + 8 data bits + 1 stop bit)           |     | 0     | ○ |

EM730

|        |               |  |   |       |   |
|--------|---------------|--|---|-------|---|
|        | Modbus        | 1: 1-8-E-1 (1 start bit + 8 data bits + 1 even parity check bit + 1 stop bit)<br>2: 1-8-O-1 (1 start bit + 8 data bits + 1 odd parity check bit + 1 stop bit)<br>3: 1-8-N-2 (1 start bit + 8 data bits + 2 stop bits)<br>4: 1-8-E-2 (1 start bit + 8 data bits + 1 even parity check bit + 2 stop bits)<br>5: 1-8-O-2 (1 start bit + 8 data bits + 1 odd parity check bit + 2 stop bits) |   |       |   |
| F10.03 | 485           | 0.0 -60.0 ; 0.0: ( master-slave)   | c | 0.0   | ● |
| F10.04 | Modbus        | 1 - 20   |   | 2     | ● |
| F10.05 | master-slave  | 0:<br>1:   |   | 0     | ○ |
| F10.06 | Master-slave  | 0: slave<br>1: ( Modbus)   |   | 0     | ○ |
| F10.07 | ,             | 0:<br>1:<br>2:<br>3:<br>4:<br>5:   |   | 1     | ○ |
| F10.08 | slave         | 0.00-10.00   |   | 1.00  | ● |
| F10.09 |               | 0.000-30.000   |   | 0.200 | ● |
| F10.10 |               | 0: Modbus-RTU  |   | 0     | × |
| F10.56 | 485<br>EEPROM | 0-10: ( )<br>11: ( )   |   | 0     | ○ |
| F10.57 | -<br>SCI      | 0:<br>1:   |   | 1     | ● |
| F10.58 |               | 110~10000  |   | 150   | ● |

|            |         |  |  |        |   |
|------------|---------|--|--|--------|---|
|            | -       |  |  |        |   |
| F10.59     | SCI     | 0:<br>1:<br>2:                                   |  | 0      | ○ |
| <b>F11</b> |         |  |  |        |   |
| <b>F12</b> |         |  |  |        |   |
| F12.00     | -       |  |  | 1      | ○ |
| F12.01     | STOP    | 0:<br>1:   |  | 1      | ○ |
| F12.02     |         | 0:<br>1:<br>2:                                   |  | 0      | ● |
| F12.03     |         | 0:<br>1:<br>2:                                   |  | 0      | ○ |
| F12.09     |         | 0.01~600.00 (30.00<br>/ ) 0.00 - 50.00 4- , 1500 |  | 30.00  | ● |
| F12.10     | UP/DOWN | 0.00:<br>0.05~500.00 /                           |  | 5.00 / | ○ |
| F12.11     | UP/DOWN | 0: ) (<br>1:<br>2: UP/DOWN                       |  | 0      | ○ |
| F12.12     | UP/DOWN | 0:<br>1: ( )                                     |  | 1      | ○ |
| F12.13     |         | 0:<br>1:   |  | 0      | ● |
| F12.14     |         | 0:<br>1: ( , , , , )                             |  | 0      | ○ |
| F12.15     | .       | 0~65535  |  | XXX    | × |

## EM730

|        |                     |                |   |                             |   |
|--------|---------------------|----------------|---|-----------------------------|---|
|        |                     |                |   |                             |   |
| F12.16 | ,                   | 0 - 59         |   | XXX                         | × |
| F12.17 | ,                   | 0~65535        |   | XXX                         | × |
| F12.18 | ( )                 | 0 - 59         |   | XXX                         | × |
| F12.19 |                     | 0.40 - 650.00  |   | Depending on the motor type | × |
| F12.20 |                     | 60 - 690       |   | Depending on the motor type | × |
| F12.21 |                     | 0.1 - 1500.0   | A | Depending on the motor type | × |
| F12.22 | S/N 1               | XXX.XX         |   | XXX.XX                      | × |
| F12.23 | S/N2                | XX.XXX         |   | XX.XXX                      | × |
| F12.24 | S/N 1               | XXX.XX         |   | XXX.XX                      | × |
| F12.25 | S/N 2               | XX.XXX         |   | XX.XXX                      | × |
| F12.26 | 1                   | XXX.XX         |   | XXX.XX                      | × |
| F12.27 | 2                   | XX.XXX         |   | XX.XXX                      | × |
| F12.28 | 1                   | XX.XXX         |   | XX.XXX                      | × |
| F12.29 | 2                   | XXXX.X         |   | XXXX.X                      | × |
| F12.30 | 3                   | XXXXXX         |   | XXXXXX                      | × |
| F12.31 |                     | 0:<br>1:<br>2: |   | 0                           | ● |
| F12.33 | 1<br>1<br>(<br>STOP | 0.00 - 99.99   |   | 18.00                       | ● |

## EM730

|        |                                   |              |  |       |   |
|--------|-----------------------------------|--------------|--|-------|---|
|        | 5)                                |              |  |       |   |
| F12.34 | (<br>1 <sup>2</sup><br>STOP<br>1) | 0.00 - 99.99 |  | 18.01 | ● |
| F12.35 | (<br>1 <sup>3</sup><br>STOP<br>2) | 0.00 - 99.99 |  | 18.06 | ● |
| F12.36 | (<br>1 <sup>4</sup><br>STOP<br>3) | 0.00 - 99.99 |  | 18.08 | ● |
| F12.37 | (<br>1 <sup>5</sup><br>STOP<br>4) | 0.00 - 99.99 |  | 18.09 | ● |
| F12.38 | -<br>1                            | 0.00 - 99.99 |  | 18.00 | ● |
| F12.39 | -<br>2                            | 0.00 - 99.99 |  | 18.06 | ● |
| F12.40 | -<br>3                            | 0.00 - 99.99 |  | 18.09 | ● |
| F12.41 | UP/DOWN<br>0                      | 0:<br>1:     |  | 0     | ○ |

EM730

|        |         |  |   |   |   |   |   |       |   |
|--------|---------|--|---|---|---|---|---|-------|---|
| F12.42 | ,       | 0.00 - F00.16  |   |   |   |   |   | 0.00  | × |
| F12.43 |         | 0.00-  F13.02  |   |   |   |   | % | 0.0   | × |
| F12.45 | UP/DOWN |  |   |   |   |   |   | 00000 | ○ |
|        |         | 0  | 0 | 0 | 0 | 0 |   |       |   |
|        |         | 0:<br>1:   |   |   |   |   |   |       |   |
| F13    |         |  |   |   |   |   |   |       |   |
| F13.00 | /       | 0:<br>1:   |   |   |   |   |   | 0     | ○ |
| F13.01 |         | 0: F13.02<br>1: AI1<br>2: AI2<br>3:<br>4:<br>5: (X5)<br>6:<br>7:<br>8: |   |   |   |   |   | 0     | ○ |
| F13.02 |         | -200.0 - 200.0   |   |   |   |   | % | 100.0 | ● |
| F13.03 | 1       | -200.0 - 200.0   |   |   |   |   | % | 0.0   | ● |
| F13.04 | 2       | -200.0 - 200.0   |   |   |   |   | % | 0.0   | ● |
| F13.05 | 3       | -200.0 - 200.0   |   |   |   |   | % | 0.0   | ● |
| F13.06 |         | 0.00 - 120.00  |   |   |   |   |   | 0.00  | ● |
| F13.08 |         | 0: F13.09<br>1: AI1<br>2: AI2  |   |   |   |   |   | 0     | ○ |

## EM730

|            |                     |   |   |       |   |
|------------|---------------------|---|---|-------|---|
|            |                     | 3:<br>4:<br>5: (X5)<br>6: (%)<br>7: ( )                                     |   |       |   |
| F13.09     |                     | 0.50 - F00.16   |   | 50.00 | ● |
| F13.10     |                     | 0.00 - F00.16   |   | 0.00  | ● |
| F13.11     |                     | 0.0-100.0   | % | 0.0   | ● |
| F13.12     |                     | 0.00 - 50.00  |   | 1.00  | ● |
| F13.13     |                     | 0.0-100.0   | % | 0.0   | ● |
| F13.18     |                     | 0 - 100   | % | 100   | ● |
| F13.19     |                     | 0-1   |   | 0     | ● |
| <b>F14</b> | <b>2 ( . EM730)</b> |   |   |       |   |
| <b>F15</b> |                     |   |   |       |   |
| F15.00     | JOG                 | 0.00 - F00.16   |   | 5.00  | ● |
| F15.01     | JOG                 | 0.00 - 650.00 (F15.13=0)<br>0.0 - 6500.0 (F15.13=1)<br>0 - 65000 (F15.13=2) |   | 5.00  | ● |
| F15.02     | JOG                 | 0.00 - 650.00 (F15.13=0)<br>0.0 - 6500.0 (F15.13=1)<br>0 - 65000 (F15.13=2) |   | 5.00  | ● |
| F15.03     | 2                   | 0.00 - 650.00 (F15.13=0)<br>0.0 - 6500.0 (F15.13=1)<br>0 - 65000 (F15.13=2) |   | 15.00 | ● |
| F15.04     | 2                   | 0.00 - 650.00 (F15.13=0)<br>0.0 - 6500.0 (F15.13=1)<br>0 - 65000 (F15.13=2) |   | 15.00 | ● |
| F15.05     | 3                   | 0.00 - 650.00 (F15.13=0)<br>0.0 - 6500.0 (F15.13=1)                         |   | 15.00 | ● |



## EM730

|        |        |   |  |        |   |
|--------|--------|---|--|--------|---|
|        |        | 0 - 65000 (F15.13=2)  |  |        |   |
| F15.06 | 3      | 0.00 - 650.00 (F15.13=0)<br>0.0 - 6500.0 (F15.13=1)<br>0 - 65000 (F15.13=2) |  | 15.00  | ● |
| F15.07 | 4      | 0.00 - 650.00 (F15.13=0)<br>0.0 - 6500.0 (F15.13=1)<br>0 - 65000 (F15.13=2) |  | 15.00  | ● |
| F15.08 | 4      | 0.00 - 650.00 (F15.13=0)<br>0.0 - 6500.0 (F15.13=1)<br>0 - 65000 (F15.13=2) |  | 15.00  | ● |
| F15.09 |        | 0:<br>1: 50.00<br>2:<br>F00.16  |  | 0      | ○ |
| F15.10 |        | 0:<br>1:  |  | 0      | ○ |
| F15.11 | 1<br>2 | 0.00 - F00.16   |  | 0.00   | ● |
| F15.12 | 1<br>2 | 0.00 - F00.16   |  | 0.00   | ● |
| F15.13 |        | 0:0.01s<br>1:0.1s<br>2:1s   |  | 0      | ○ |
| F15.14 | 1      | 0.00-600.00   |  | 600.00 | ● |
| F15.15 | 1      | 0.00-20.00, 0.00  |  | 0.00   | ● |
| F15.16 | 2      | 0.00-600.00   |  | 600.00 | ● |
| F15.17 |        | 0.00-20.00, 0.00  |  | 0.00   | ● |

## EM730

|        |                      |                                  |   |        |   |
|--------|----------------------|----------------------------------|---|--------|---|
|        | 2                    |                                  |   |        |   |
| F15.18 | 3                    | 0.00-600.00                      |   | 600.00 | ● |
| F15.19 | 3                    | 0.00-20.00, 0.00                 |   | 0.00   | ● |
| F15.20 | (FAR)                | 0.00 - 50.00                     |   | 2.50   | ○ |
| F15.21 | <sup>1</sup><br>FDT1 | 0.00 - F00.16                    |   | 30.00  | ○ |
| F15.22 | FDT1                 | -(Fmax-F15.21)～F15.21            |   | 2.00   | ○ |
| F15.23 | <sup>2</sup><br>FDT2 | 0.00 - F00.16                    |   | 20.00  | ○ |
| F15.24 | FDT2                 | -(Fmax-F15.23)～F15.23            |   | 2.00   | ○ |
| F15.25 | ADT                  | 0: AI1<br>1: AI2                 |   | 0      | ○ |
| F15.26 | ADT1                 | 0.00-100.00                      | % | 20.00  | ● |
| F15.27 | ADT1                 | 0.00 to F15.26 ( )               | % | 5.00   | ● |
| F15.28 | ADT2                 | 0.00-100.00                      | % | 50.00  | ● |
| F15.29 | ADT2                 | 0.00 to F15.28 ( )               | % | 5.00   | ● |
| F15.30 | -                    | 0:<br>1:                         |   | 0      | ○ |
| F15.31 |                      | 110.0-140.0 (380 , 100.0 = 537 ) | % | 125.0  | ○ |
| F15.32 | . .                  | 20-100 ( 100 1)                  | % | 100    | ● |
| F15.33 |                      | 0:                               |   | 0      | ○ |

EM730

|            |     |   |   |       |   |
|------------|-----|---|---|-------|---|
|            |     | 1:<br>2:  |   |       |   |
| F15.34     |     | 0:<br>1:<br>2:  |   | 1     | ○ |
| F15.35     |     | 1.00 - 1.10   |   | 1.05  | ● |
| F15.36     |     | 0: (7- )<br>1: (5- )  |   | 0     | ○ |
| F15.37     |     | 0.00 - F00.16   |   | 15.00 | ● |
| F15.38     |     | 0:<br>1: 1<br>2: 2 ( VF) ,  |   | 1     | ○ |
| F15.39     | JOG | 0:<br>1:  |   | 0     | ○ |
| F15.40     |     | 0.00 - 650.00 (F15.13=0)<br>0.0 - 6500.0 (F15.13=1)<br>0 - 65000 (F15.13=2) |   | 1.00  | ● |
| F15.66     |     | 0.1-300.0 (0.0: ; 100.0%: )   | % | 200.0 | ● |
| F15.67     |     | 0.00-600.00   |   | 0.00  | ● |
| F15.68     |     | 0.00-100.00   |   | 1.00  | ○ |
| F15.69     |     | 30.0-200.0  | % | 90.0  | ○ |
| <b>F16</b> |     |   |   |       |   |
| F16.00     |     | 0:<br>1:<br>2:<br>3:<br>4:  |   | 0     | ○ |

## EM730

|        |        |  |   |        |   |
|--------|--------|--|---|--------|---|
|        |        | 5:<br>6:<br>7:   |   |        |   |
| F16.01 |        | 1 - 65535 (F16.13=0)<br>0.1 - 6553.5 (F16.13=1)<br>0.01 - 655.35 (F16.13=2)<br>0.001 - 65.535 (F16.13=3) |   | 1000   | ● |
| F16.02 | 1      | 0.1 - 6553.5   |   | 100.0  | ● |
| F16.03 |        | F16.04 - 65535   |   | 1000   | ● |
| F16.04 |        | 1 - F16.03   |   | 1000   | ● |
| F16.05 |        | 0.0-6500.0, 0.0  |   | 0.0    | ● |
| F16.06 |        | 0~65535  |   | 0      | ● |
| F16.07 |        | 0-65535; 0:  |   | 0      | ● |
| F16.08 |        | 0-65535; 0:  |   | 0      | ● |
| F16.09 |        | 0~65535  |   | XXXX   | ● |
| F16.10 | -<br>0 | 0.00-100.00  | % | 0.00   | ○ |
| F16.11 | -      | 0.00-100.00  | % | 100.00 | ○ |
| F16.13 |        | 0:1<br>1:0.1<br>2:0.01<br>3:0.001  |   | 0      | ○ |

## EM730

| F17    | I/O (   |   |     |     |     |     | EM730) |      |   |
|--------|---------|---|-----|-----|-----|-----|--------|------|---|
| F18    |         |   |     |     |     |     |        |      |   |
| F18.00 |         | 0.00 -  |     |     |     |     |        | XXX  | × |
| F18.01 |         | 0.00 - F00.16                                   |     |     |     |     |        | XXX  | × |
| F18.03 |         | 0.00 -  |     |     |     |     |        | XXX  | × |
| F18.04 |         | -200.0 - 200.0                                  |     |     |     |     | %      | XXX  | × |
| F18.05 |         | -200.0 - 200.0                                  |     |     |     |     | %      | XXX  | × |
| F18.06 |         | 0.00 - 650.00 ( ≤ 75 )<br>0.0 - 6500.0 ( > 75 ) |     |     |     |     | A      | XXX  | × |
| F18.07 | , %     | 0.0-300.0 (100.0 = )                            |     |     |     |     | %      | 0    | × |
| F18.08 |         | 0.0 - 690.0                                     |     |     |     |     |        | XXX  | × |
| F18.09 |         | 0 - 1200  |     |     |     |     |        | XXX  | × |
| F18.10 |         | 0 - 10000                                       |     |     |     |     |        | XXX  | × |
| F18.11 |         | 1 - 15  |     |     |     |     |        | XXX  | × |
| F18.12 |         | 0.0 - 6000.0                                    |     |     |     |     |        | XXX  | × |
| F18.14 |         | 0~65535   |     |     |     |     | /      | XXX  | × |
| F18.15 | UP/DOWN | 0.00 - 2 * F00.16                               |     |     |     |     |        | XXX  | × |
| F18.16 |         | 0.0 -   |     |     |     |     |        | XXX  | × |
| F18.17 |         | 0.0 -   |     |     |     |     |        | XXX  | × |
| F18.18 |         | 0~65535   |     |     |     |     | *      | XXX  | × |
| F18.19 |         | 0.0 - 999.9                                     |     |     |     |     | *      | XXX  | × |
| F18.20 |         | -650.00~650.00                                  |     |     |     |     |        | XXX  | × |
| F18.21 |         | -1.000 - 1.000                                  |     |     |     |     |        | XXX  | × |
| F18.22 | 1       | X5  | X4  | X3  | X2  | X1  |        | XXX  | × |
|        |         | 0/1   | 0/1 | 0/1 | 0/1 | 0/1 |        |      |   |
| F18.23 |         | *   | AI2 | AI1 | *   | *   |        | XX X | × |
|        |         | *   | 0/1 | 0/1 | *   | 0/1 |        |      |   |

# User Guide of EM730 Series Inverter

|        |       |                |   |     |   |     |               |     |   |
|--------|-------|----------------|---|-----|---|-----|---------------|-----|---|
|        | 2     |                |   |     |   |     |               |     |   |
| F18.25 |       | *              | * | R1  | * | Y1  |               | XXX | × |
|        |       | *              | * | 0/1 | * | 0/1 |               |     |   |
| F18.26 | AI1   | 0.0-100.0      |   |     |   |     | %             | XXX | × |
| F18.27 | AI2   | 0.0-100.0      |   |     |   |     | %             | XXX | × |
| F18.31 | :     | 0.00-100.00    |   |     |   |     |               | XXX | × |
| F18.32 | :     | 0~65535        |   |     |   |     |               | XXX | × |
| F18.33 | .     | 0~65535        |   |     |   |     |               | XXX | × |
| F18.34 | .     | 0~65535        |   |     |   |     |               | XXX | × |
| F18.35 |       | 0.0 - 6500.0   |   |     |   |     |               | XXX | × |
| F18.36 |       | 0.0~359.9 °    |   |     |   |     |               | XXX | × |
| F18.39 | VF    | 0 - 690        |   |     |   |     |               | XXX | × |
| F18.40 | VF    | 0 - 690        |   |     |   |     |               | XXX | × |
| F18.51 |       | -100.0 - 100.0 |   |     |   |     | %             |     | × |
| F18.60 |       | -40 to 200     |   |     |   |     | ℃             | 0   | × |
| F18.67 | ( * ) | *              |   |     |   |     | 0~65535       | *   | × |
| F18.68 | ( * ) | *              |   |     |   |     | 0.0~<br>999.9 | *   | × |
| F18.69 |       |                |   |     |   |     | 0~65535       |     | × |
| F18.70 |       |                |   |     |   |     | 0.0~<br>999.9 |     | × |
| F18.71 | * ,   | , *            |   |     |   |     | 0~65535       | *   | × |
| F18.72 |       | , *            |   |     |   |     | 0.0~          | *   | × |

EM730

|        |   |  |   |       |      |   |
|--------|---|--|---|-------|------|---|
|        | , | *  |   | 999.9 |      |   |
| F19    |   |  |   |       |      |   |
| F19.00 |   | 0:<br>E01:<br>E02:<br>E04:<br>E05:<br>E06:<br>E07:<br>E08:<br>E09:<br>E10:<br>E11:<br>E13:<br>E14:<br>E15:<br>E16:<br>E17:<br>E18:<br>E19:<br>E20:<br>E21:<br>E22:<br>E24:<br>E25:<br>E26:<br>E27:<br>E28:<br>E43:<br>E44:<br>E57:<br>E58:<br>E76: |   |       | 0    | × |
| F19.01 |   | 0.00 -   |   |       | 0.00 | × |
| F19.02 |   | 0.00 - 650.00( : ≤75 )<br>0.0 - 6500.0( : > 75 )   | A |       | 0.00 | × |
| F19.03 |   | 0 - 1200   |   |       | 0    | × |
| F19.04 |   | 0:   |   |       | 0    | × |

EM730

|            |          |                                  |   |      |   |
|------------|----------|----------------------------------|---|------|---|
|            |          | 1:<br>2:<br>3:<br>4:<br>5:<br>6: |   |      |   |
| F19.05     |          |                                  |   | 0    | × |
| F19.06     | -        | F19.00                           |   | 0    | × |
| F19.07     |          |                                  |   | 0.00 | × |
| F19.08     |          |                                  | A | 0.00 | × |
| F19.09     |          |                                  |   | 0    | × |
| F19.10     | -        | F19.04                           |   | 0    | × |
| F19.11     |          |                                  |   | 0    | × |
| F19.12     | -        | F19.00                           |   | 0    | × |
| F19.13     |          |                                  |   | 0.00 | × |
| F19.14     |          |                                  | A | 0.00 | × |
| F19.15     |          |                                  |   | 0    | × |
| F19.16     |          | F19.04                           |   | 0    | × |
| F19.17     |          |                                  |   | 0    | × |
| <b>F27</b> | <b>-</b> |                                  |   |      |   |
| F27.00     |          | 0:<br>1:<br>2:<br>3:             |   | 0    | ○ |



EM730

|        |     |   |    |        |   |
|--------|-----|---|----|--------|---|
| F27.01 |     | 0: * B<br>1: * A<br>2: * 10V                    |    | 1      | ○ |
| F27.02 |     | 0:<br>1: 0.00 -<br>2: : -<br>+                  |    | 1      | ○ |
| F27.03 |     | :<br>0:<br>1:<br>:<br>0:<br>1:<br>:<br>0:<br>1: |    | 10     | ○ |
| F27.04 | -   | 0.00~500.00                                     | %  | 500.00 | ○ |
| F27.05 | -   | 0.00~500.00                                     | %  | 50.00  | ● |
| F27.06 |     | 0~1000  |    | 0      | ● |
| F27.07 | 0 - | 0.00 - 1  | %  | 4.00   | ● |
| F27.08 | 1 - | 0 - 2   | %  | 12.00  | ● |
| F27.09 | 2 - | 1 - 3   | %  | 23.00  | ● |
| F27.10 | 3 - | 2 - 4   | %  | 37.00  | ● |
| F27.11 | 4 - | 3 - 5   | %  | 52.00  | ● |
| F27.12 | 5 - | 4 to 100.00                                     | %  | 72.00  | ● |
| F27.13 |     | 0.00 - 50.00                                    | %/ | 0.60   | ● |
| F27.14 | 1 - | 0.00 - 50.00                                    | %/ | 0.11   | ● |
| F27.15 | 2 - | 0.00 - 50.00                                    | %/ | 0.30   | ● |

## EM730

|        |   |  |    |       |   |
|--------|---|--|----|-------|---|
| F27.16 | 3 | 0.00 - 50.00   | %/ | 0.75  | ● |
| F27.17 | 4 | 0.00 - 50.00   | %/ | 1.55  | ● |
| F27.18 | 5 | 0.00 - 50.00   | %/ | 4.00  | ● |
| F27.19 | 6 | 0.00 - 50.00   | %/ | 11.00 | ● |
| F27.20 |   | <p>0:               :</p> <p>1:               :</p> <p>0:               :</p> <p>1:               :</p> <p>0:               :</p> <p>1:               :</p> <p>2:               :</p> <p>3:               :</p> <p>4:               (               )</p> <p>5:               (               )</p> <p>0:               0</p> <p>1:               1</p> <p>0:               :</p> <p>1:               F27.24</p> |    | 01201 | ○ |
| F27.21 |   | 0.0~10.0   |    | 6.0   | ● |
| F27.22 |   | 0.00 - 60.00   |    | 5.00  | ● |
| F27.23 |   | 0.0 - 60.0   |    | 10.0  | ● |
| F27.24 |   | 0.00~Fmax  |    | 5.00  | ● |

## EM730

|        |   |              |   |       |   |
|--------|---|--------------|---|-------|---|
|        |   |              |   |       |   |
| F27.25 | , | 0.00~FUP     |   | 2.50  | ● |
| F27.26 |   | 0.0-100.0    |   | 5.0   | ● |
| F27.27 |   | 0.00~20.00   |   | 10.00 | ● |
| F27.28 |   | 0.1 - 20.0   |   | 10.0  | ● |
| F27.29 |   | 0.1 - 20.0   |   | 2.0   | ● |
| F27.30 |   | 1~100        |   | 5     | ● |
| F27.36 | - | -500.0~500.0 | % |       | × |