三墾力達

LeaderSamco · *VM06*

SC-WS

SC-WS LeaderSamco · *vm06*

1 2

2

2 1 3
2 2 3

3 ( )
3 1 5
3 2 6
3 3 6
3 7

1 11
2 13

1 20
2 22
3 22
PID 24
26
29

32

33

35

36

1 37

1

LEADERSAMCO-Vm06

■ (SC-WS)

■ PID PLC

■ SC-WS 8 AC250V 7 ( )

■

■

■ RY3 RY8 6

SC-WS

2

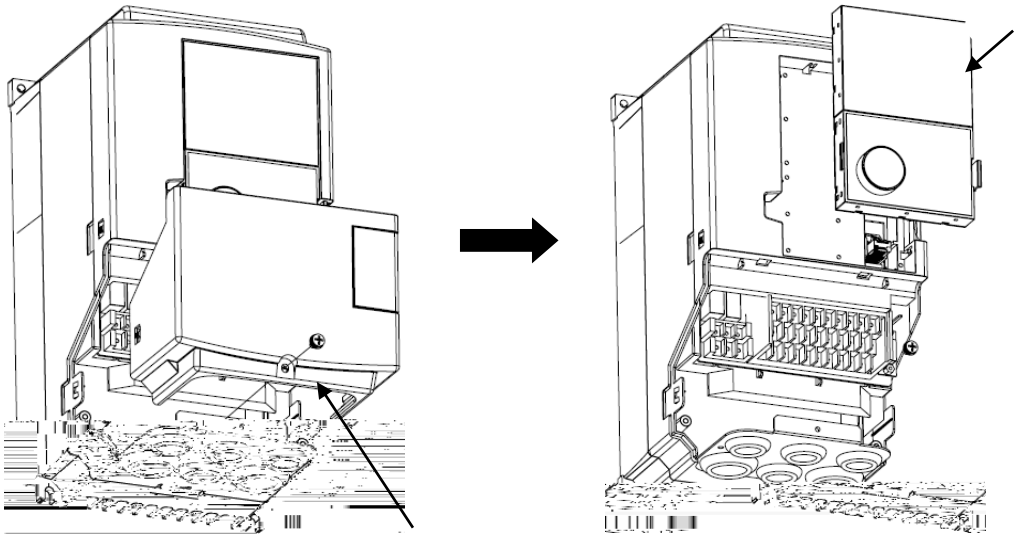
2-1

■ SANKENSAMCO-Vm06 15 CHARGE

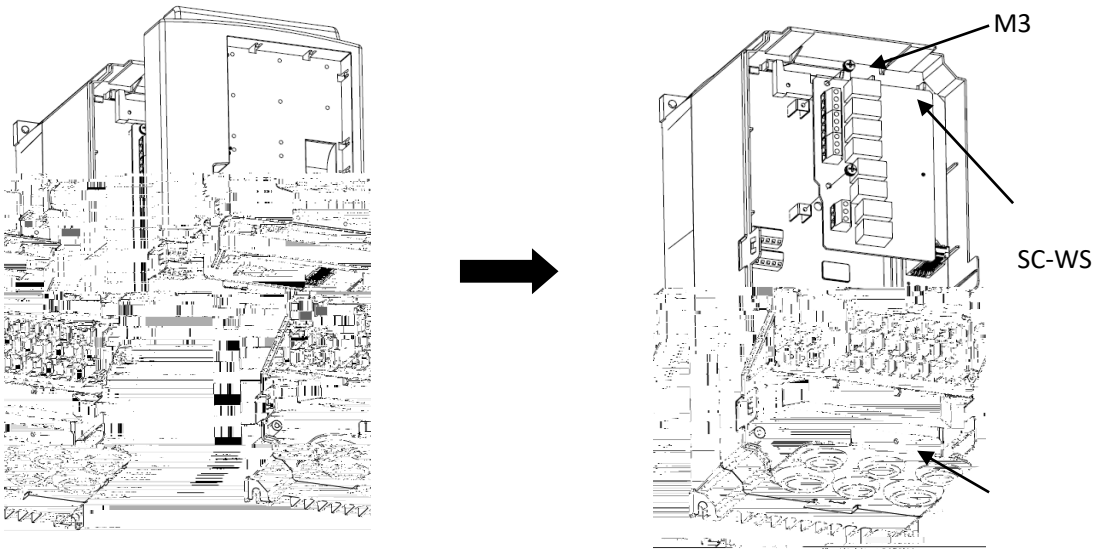
CHARGE

2-2

■ VM06-0022 0185



1 2



2 4

1 M4 1

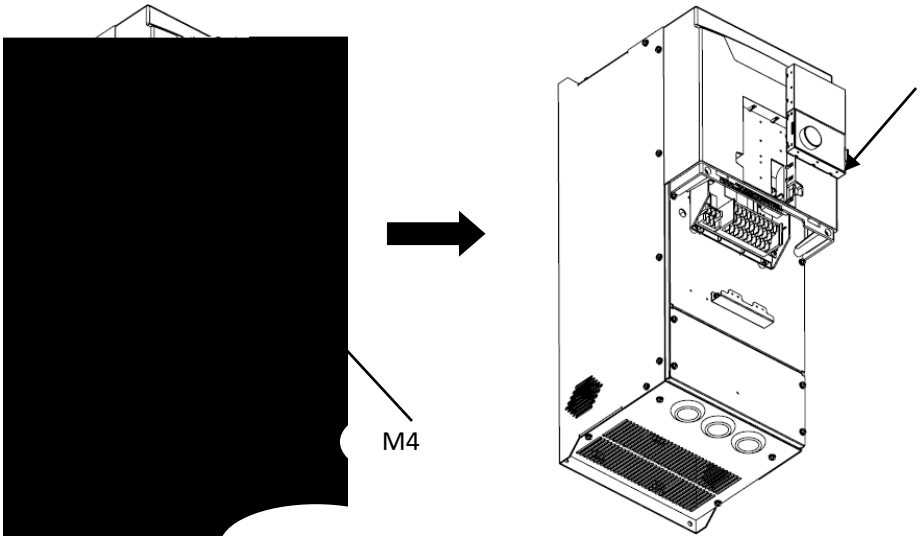
2 (2)

3 2

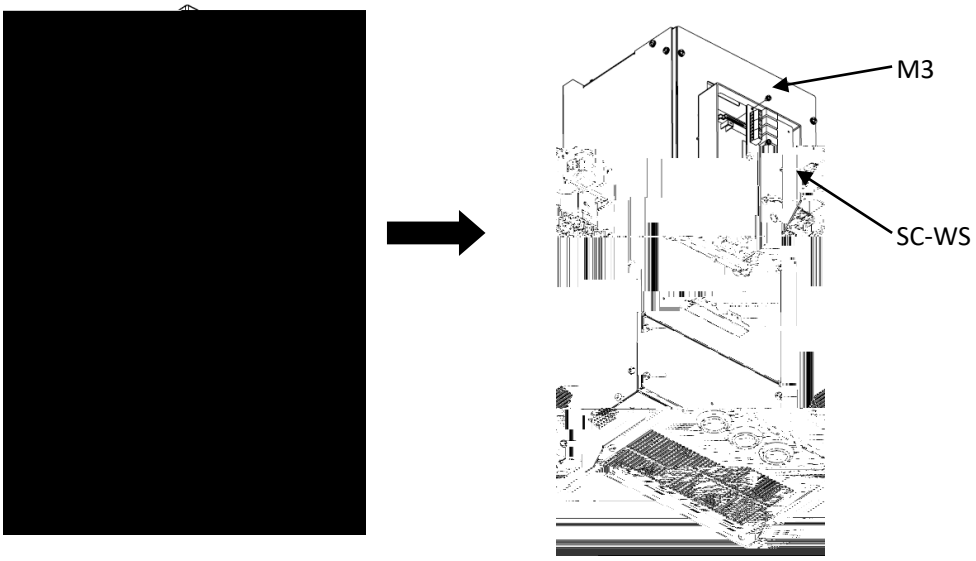
4 SC-WS 2 M2 , SC-WS
4

5 3→2→1 M4 SC-WS

■ **VM06-0220 0900**



5 6



7 8

1 M4 5

2 (6)

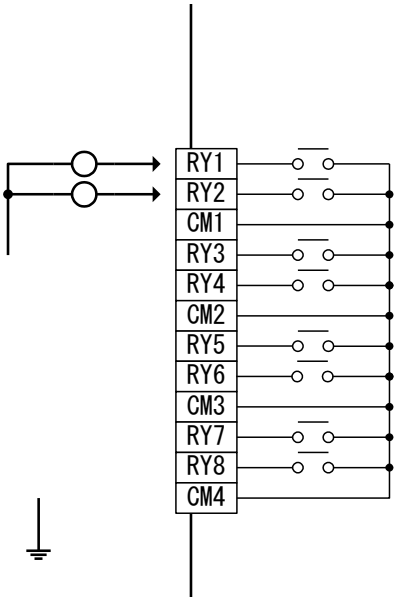
3 2 M4 7

4 SC-WS 2 M2 , SC-WS
8

5 7→6→5 M4 SC-WS

3-1

SC-WS



■ CM1 4 CM1

3-2

5.8kgf · cm TB1

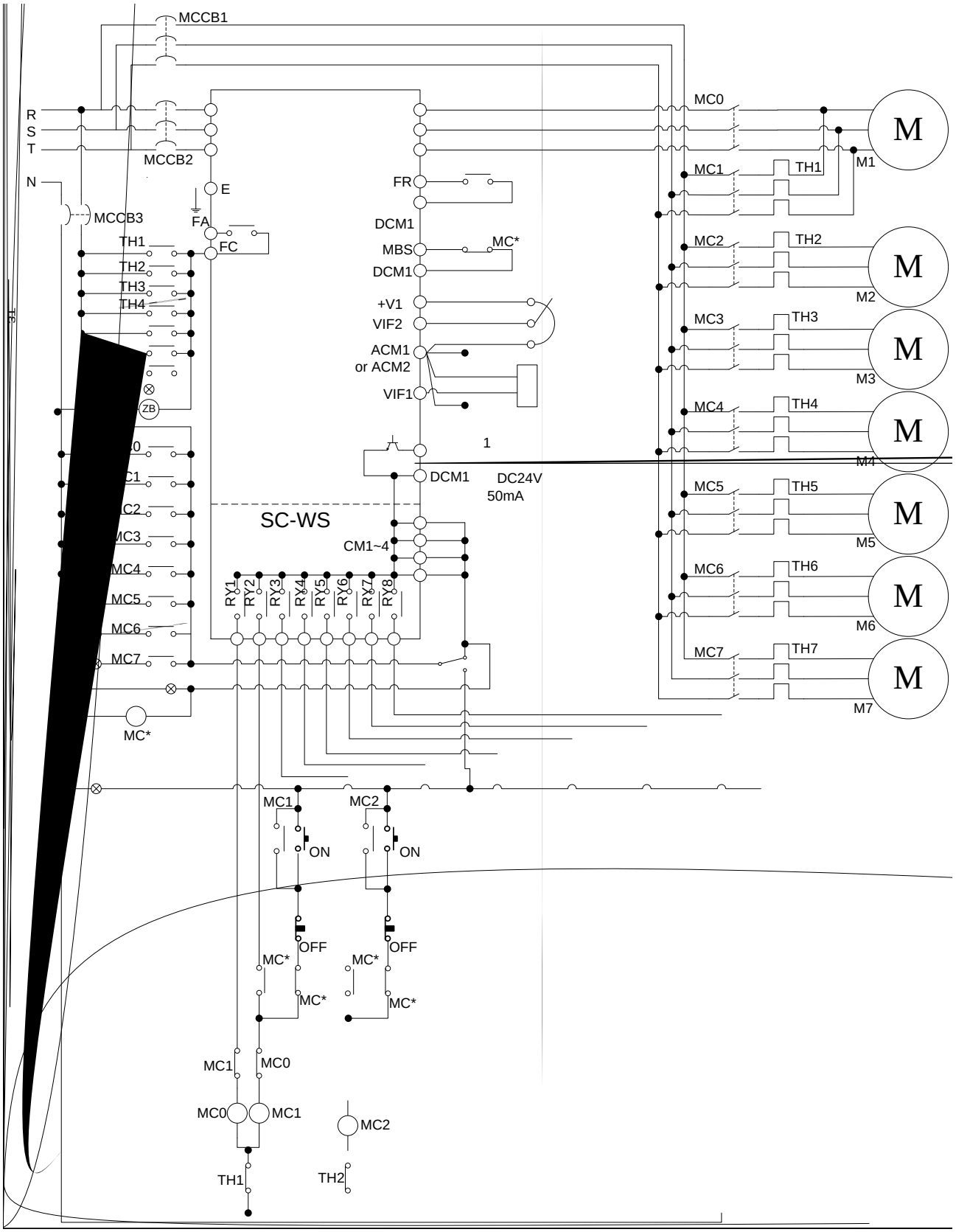
AWG24 12

3-3

1

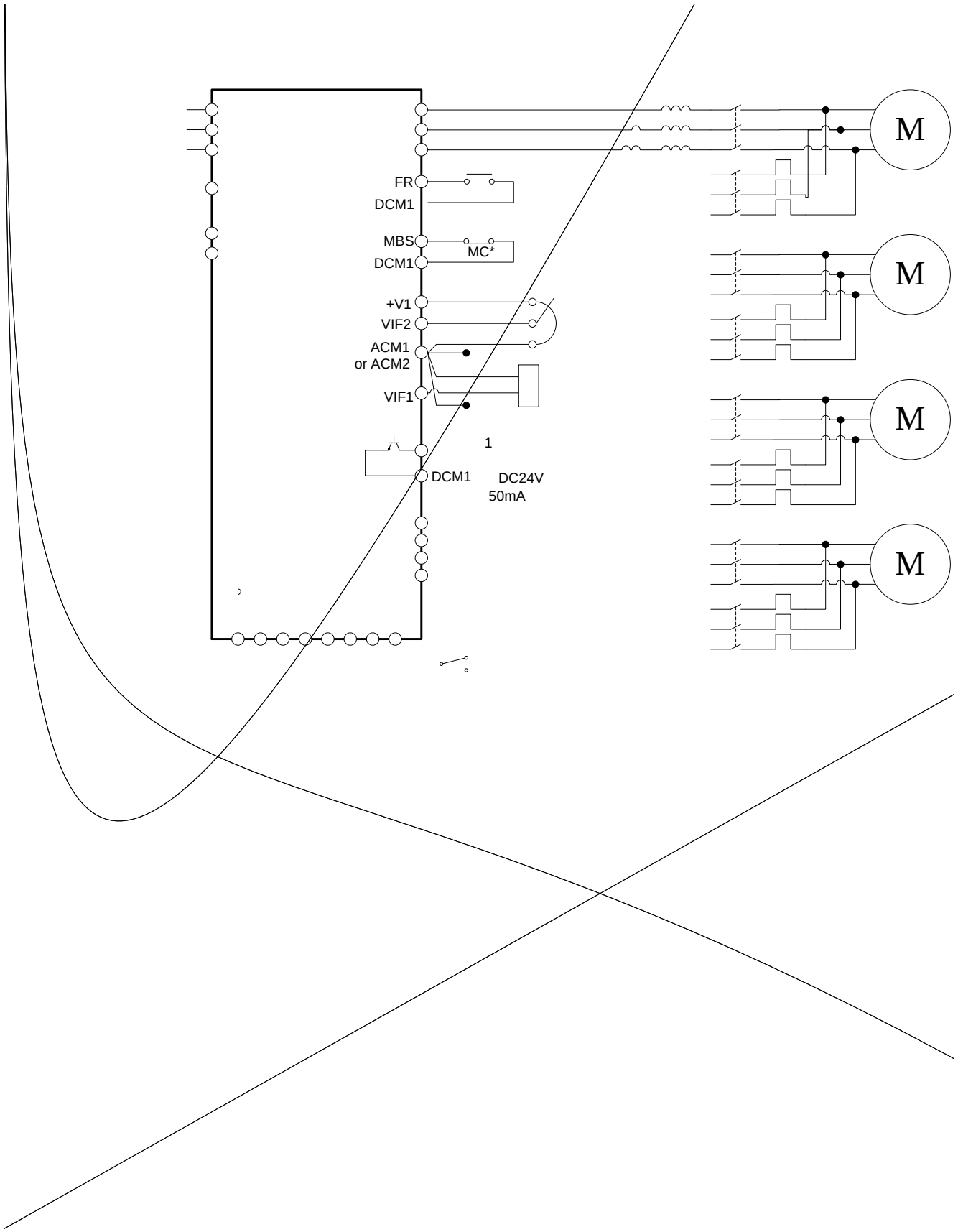
RY1 8		
CM1 4		

(F8007=1 4)



1 D01 D03 F1509 F1511 “11”

(F8007=9 10)



1 D01 D03 F1509 F1511 “ 11 ”

- · (SC-WS)
  F1108( ) 1 2

-

5-2

- MC*
  MC0 7
  OFF

- MC* MBS
  LV MBS
  F8007 1 3 5 7 9 11 13
  AC

-

DI1 DI8 F1414 F1421
DI1 “ FR ” F1414=1
D01 DO3 F1509 F1511
D02 “ ” F1510=11

-
- MCCB
- (F8007=9 14)
-

ON ON

-
-
-

ACM1 ACM2

MBS

MC*

4

4-1

2

No.			
1001		1 40 (1)	SC-WS 1
1002	1	1 10 21 22 1	SC-WS 1 10 21 22
1101		1 3 1	
1111		1 3 1	SC-WS 2
1202		1 99 1	17 18 19 20
1401	(VIF1)	0 ±600Hz 0	VIF1
1402	(VIF1)	0 ±600Hz 60	
1403	(VIF2)	0 ±600Hz 0	VIF2
1404	(VIF2)	0 ±600Hz 60	
1405	(VIF3)	0 ±600Hz 0	VIF3
1406	(VIF3)	0 ±600Hz 60	
3001	PID1	1 99 (1)	1
3002	PID1	1 99 (0)	
3003	PID1	0 100 0.1	P
3004	PID1	0.01 100 0.1	I
3005	PID1	0 100 0	D
3201	PID	0 5 0	1 PID1
8001	RY3	0 99 1	
8002	RY4	0 99 5	
8003	RY5	0 99 6	
8004	RY6	0 99 8	
8005	RY7	0 99 10	
8006	RY8	0 99 12	
8007		0 15 0	OFF 0
8008	M1	0 or 1 1	0 M1(1 8)
8009	M2	0 or 1 0	0 M2
8010	M3	0 or 1 0	0 M3
8011	M4	0 or 1 0	0 M4
8012	M5	0 or 1 0	0 M5 (9 12)
8012	M6	0 or 1 0	0 M6 (9 12)
8014	M7	0 or 1 0	0 M7 (5 12)
8015	T_{MC}	0.10 2.00sec (1.0sec)	MC
8016	T_H	0.1 10.0 min (5min)	
8017	T_L	0.1 10.0 min (5min)	
8018	K	20 95 % (50%)	

8019	T_P	0.1 10.0 min (5min)	
8020	T_A	0.1 90.0sec (5.0sec)	
8021	T_D	0.1 90.0sec (5.0sec)	

4-2

SC-WS

F1001	

- SC-WS F1001=1 V/F

F1002	1

- SC-WS F1002=11 20( ) F8022 0 F1002
(F8022 F8029)

F1002=1

F1101=2 VIF1 0 5V

F1101=3 VIF1 0 10V

F1101=4 VIF2 0 5V

F1101=5 VIF2 0 10V

F1101=6 VIF3 0 5V

F1101=7 VIF3 0 10V

F1101=8 VIF1 4 20mA

F1101=9 VIF2 4 20mA

F1101=10 VIF3 4 20mA

F1101=21

F1101=22

F1101 11 20

F1101	

- 1 2 3

F1111	

- SC-WS 2 ( ) F1111=2 F1111=1

F1401	(VIF1)
F1402	(VIF1)

- VIF1 (F8022=0)

F1403/F1405	(VIF2/VIF3)
F1404/F1406	(VIF2/VIF3)

- VIF2/VIF3 (F8022=0)

F1202	

- F1202

F1202=17 [MPa]

F1202=18 [MPa]

F1202=19 [MPa]

F1202=20 [H]

F3002	PID1

- F3002 0 F3002 1 9

F3002 1 VIF1 0 5V 0V F1401(F8022=0) F8023(F8022≠0) 5V F1402(F8022=0) F8024(F8022≠0)

F3002 2 VIF1 0 10V 0V F1401(F8022=0) F8023(F8022≠0) 10V F1402(F8022=0) F8024(F8022≠0)

F3002 3 VIF2 0 5V 0V F1403(F8022=0) F8023(F8022≠0) 5V F1404(F8022=0) F8024(F8022≠0)

F3002 4 VIF2 0 10V 0V F1403(F8022=0) F8023(F8022≠0) 10V F1404(F8022=0) F8024(F8022≠0)

F3002 5 VIF3 0 5V 0V F1405(F8022=0) F8023(F8022≠0) 5V F1406(F8022=0) F8024(F8022≠0)

F3002 6 VIF3 0 10V 0V F1405(F8022=0) F8023(F8022≠0) 10V F1406(F8022=0) F8024(F8022≠0)

F3002 7 VIF1 4 20mA 4mA F1401(F8022=0) F8023(F8022≠0) 20mA F1402(F8022=0) F8024(F8022≠0)

F3002 8 VIF2 4 20mA 4mA F1403(F8022=0) F8023(F8022≠0) 20mA F1404(F8022=0) F8024(F8022≠0)

F3002 9 VIF/VIF2 4 20mA 4mA F1405(F8022=0) F8023(F8022≠0) 20mA F1406(F8022=0) F8024(F8022≠0)

F3201	PID

- “SC-WS” F3201=1 SC-WS PID1

F3201=0

F3201=1 PID1

F8007	

- SC-WS

SC-WS F8007 0 SC-WS F8007 0 SC-WS

F1001=1 F8007 0 F1001 1

F8007

F8007=15

F8022 F8023 F8024 F8025

F8026

1 F8007=15 PID

2 F8007=15 SC-WS F8007=15 0

3

No			OFF			
0						
1						1 7
2						
3						
4						
5						1 6
6						
7						
8						
9						1 4
10						
11						1 3
12						
13						1 4
14						

15 -

F8008 8014	

- ( )

F8008 8014=0 F8008 8014 1

- F8034=1
-

a) 1 M1 F8007 1 8 F8008

b) 5 M5 6 M6 F8007 9 14 F8012 F8013

c) 7 M7 F8007 5 14 F8014

F8015	T_{MC}

- 1

[illegible]

F8020	T_A

- F8020

  (F1011)

F8021	T_D

- F8021

  (F1011)

F8022	( ) Pref

- F8022 SC-WS F8022 0

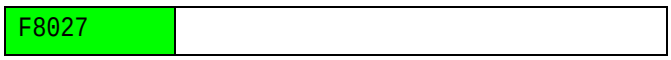
  = * F8024 / F1007

  F8024 Pg F1007

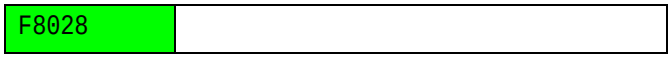
- F8022 0 F8022

F8023	Pb

- F8022 F8023



- F8022 F8029 F8027



- F8028

F8033	T_{chs}

- F8032 F8033 DO1

DO3(F1509 F1511) “12” ON

F8034	

- F8008 F8014

F8034=0 F8008 F8014

F8034=1

DI1 DI8(F1414 F1421)

F1414 F1421=49: M1(PM1) 50: M2(PM2) 51: M2(PM2)

52: M4(PM4) 53: M5(PM5) 54: M6(PM6) 55: M7(PM7)

- ON OFF

-

a) 1 M1 F8007 1 8 F8008

b) 5 M5 M6 F8007 9 14 F8012 F8013

c) 7 M7 F8007 5 14 F8014

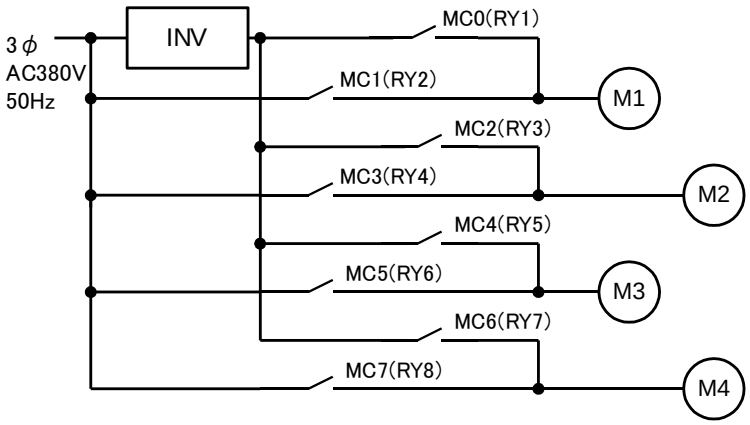
5-1

2 6

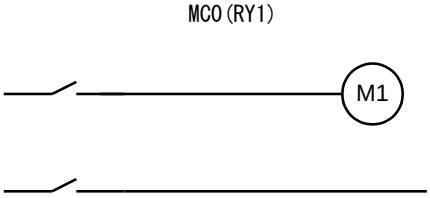
INV M1 7 ( ) MC0 7

MC

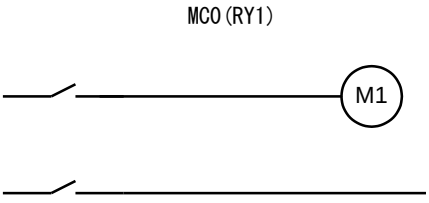
F8007=9



F8007=9,10



F8007=11,12



F8007=13,14

13 14 MS SC-WS

DC24V 50mA (RYX)

MC(MC8)

5-2

F8022 F1002 8 F8022 0 , F1002

F8022=0 F1002

4

F1002	
1	(F2101 F2116)
2	VIF1 0 5V (F1401 F1402)
3	VIF1 0 10V or (F1401 F1402)
4	VIF2 0 5V (F1403 F1404)
5	VIF2 0 10V or (F1403 F1404)
6	VIF3 0 5V (F1405 F1406)
7	VIF3 0 10V or (F1405 F1406)
8	VIF1 4 20mA (F1401 F1402)
9	VIF2 4 20mA (F1403 F1404)
10	VIF3 4 20mA (F1405 F1406)
22	AD2 AD3 (F2101 F2116)
23	

F8022 F8029 F3002 9

5

F3002	
1	VIF1 0 5V F8023 F8024
2	[redacted]

[redacted] F8023 F8024

VIF2VIF2VIF2

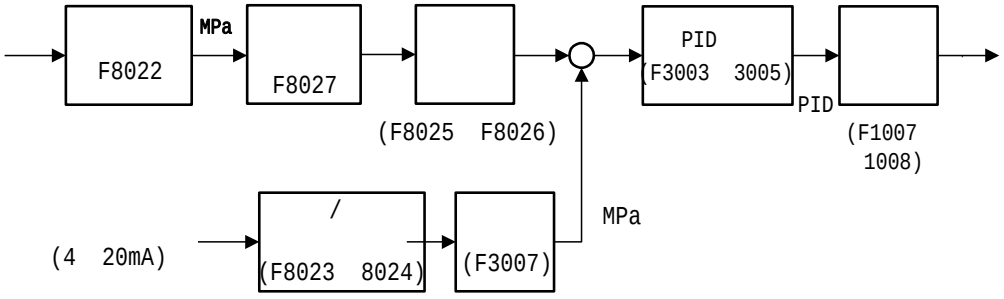
SC-WS　　F1002　F3002

6　　SWS　　F1002　F3002

F1002	F3002									
	0	1	2	3	4	5	6	7	8	9
1	×	○	○	○	○	○	○	○	○	○
2	×	×	×	○	○	○	○	×	○	○
3	×	×	×	○	○	○	○	×	○	○
4	×	○	○	×	×	○	○	○	×	○
5	×	○	○	×	×	○	○	○	×	○
6	×	○	○	○	○	×	×	○	○	×
7	×	○	○	○	○	×	×	○	○	×
8	×	×	×	○	○	○	○	×	○	○
9	×	○	○	×	×	○	○	○	×	○
10	×	○	○	○	○	×	×	○	○	×
22	×	○	○	○	○	○	○	○	○	○

F3002=0

F1002=1　F3002=8　F8022≠0　F8029=0



F1002=1

- RY1 F8007=9 14 F8008=0
ON OFF F8009=1 RY3 ON F8009=0 F8010=1
RY5 ON

- (F1103) (F1104)
F8022 F8029

-
(F8020) PID
- F1102 2
PID

- F1111= ( ) (F8021)
- F1111=
- F8007 1 3 5 7 9 11 13 SC-WS RY2 8

- F8007 2 4 6 8 10 12 14
- F8007 5 8 11 14
F1111=2 **F1111=2** **F1111=1**

- 0.00Hz DRIVE
- F1104 > 0

- STOP (F1101 2)
OFF

LV

- LV 2 LV (LV) MC*
LV

- LV RY1 8 (F8007=13 14) OFF

LV

- F1414 F1421=7 RST LV
  RST DCM1 DCM2 RST

- LV F1108=1
  2 MBS
- STOP LV LV
  STOP

LV

		RST DCM1	F1108	
	LV			LV
	LV			LV
	LV			LV LV
	LV		or	LV
	LV			LV
	LV			LV

1

2 **(F1108=2)**

LV SC-WS

- (F8007=1 8) RY1
- (F8007=9 14)
- OFF

LV

-
- LV AL1
  10
  OFF F8015 5
  ON RY1 F8015 5
  RY2
-
- SC-WS LV STOP
  OFF LED
- (F1307)
-

- ( ) PID (=)
(F1007) F8016
F8028

F8007		
1 8	F8021 (F1008)	( )
9 14	F8015 (T_{MC}) F1012 1019 PID	T_{MC}

1
2

- ( ) PID
F1008 F8017
F8028

F8007		
1 14	F8020 (F1007) PID	

3 F8007=1,2,5,6 **F8007=3,4,7 14**

- ( ) PID
F8017 (T_L)
F8028

F8007		
5 8 11 14	( )	RY8(F8007=5 8,11 12) (F8007=13,14)

- ( ) (1) P16
  F8019 (T_P)

F8007		
5 8 11 14	F1012 26 , PID	RY8 UPF

5-5

-

- F8032

- F8032=999 5
  F8032=999

- F8032

-
  F1202=20

- DI1 DI8(F1414 F1421) “43 (TCL)”
ON
  “TCL” “ON“
  “ON”
  “TCL”

F8032 F8032

F8033

ON F8008 F8014

gate off →

F8032

F8007=0

F8032 0

ON “ TCL ”

1

					INV

-

- F8033

DO1 DO3(F1509 F1511) “12”

F8033=120 F8032 F8033

F8032 F8033 ON

1

2

3 F8033

4 (F8032) F8033

5 F8033

OFF

F8033

5-6

F8007

- F8007 0 RY1

, F8008=1

- F8007 0

F8001 F8006 ≠0

- F8007

■

“ ” “ ” “ ”

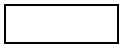
“ ”

“ ” “ ” “ ”

“ “

“ ” F8007=3,4,7,8

“ ” F8007=1,2,5,6

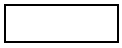


“ ” “ ” “ ”

“ ”

“ ” “ ” “ ”

■



“ ” “ ” “ ”

“ ”

“ ” “ ” “ ”

1

OFF “ ”

“ 1 ”

PID

“ ” “ ” ( ) “ ”

“ ”

1 60 “ ” LED “ ”

2 “ ” DO1 DO3(F1509 F1511)

“ 30 ” “ L=ON ” “ ” “ H=OFF ”

3 “ ”

60

60 60 60

4 “ ”

■

“ ”

“ ”

“ ” 1

■

ON

OFF “ ON ”

■

“ ”

“ ”

“ ”

6

SC-WS

-
- F8022 F8029

- 1
-

FbEr

- SC-WS(F8007 ≠ 0) (F8022=0)
  FbEr

SC-WS

No.	No.			
1	F1001		1	
2	F8007		1 14	15
3	F3201	PID1	1	
3	8008 8014		1 or 0	F8034=1
4	F8015		1.00 sec	MC
5	F1101		1 or 2	
6	F1109		2	
7	F1007		45 50 Hz	
8	F1008		20 35 Hz	
9	F1012		5 30 sec	
10	F1016			

8

ms

0.1 0.2 “Lu X”

MBS MC*

“ ” ON

		1	2	3	4
F1101		F1101=2	F1101=1	F1101=2	F1101=1
MBS		MC*			MC*
		( )		( )	
HD					
		F1108=0	F1108=0	F1108=1	F1108=1
		F1102=1	F1102=1	F1102=2	F1102=1 or 2
		F1105=0 sec	F1105=0 sec	F1105=1 sec	F1105=0 sec
	Lu	F1706=3	F1706=3	F1706=0	F1706=0
(Lu)					. .
(Lu)					
(Lu)					

9

SC-WS

(F8007=0) 6ch (RY3 RY8) F8001 F8006

-

F8001 RY3
F8002 RY4
F8003 RY5
F8004 RY6
F8005 RY7
F8006 RY8
RY1 RY2

Code No.			
F8001	(RY3)	0:	1
F8002	(RY4)	1: 1 2 3:	5
F8003	(RY5)	4: 2 5: (1)	6
F8004	(RY6)	6: (1 8) 7:	8
F8005	(RY7)	8: (F1704)	10
F8006	(RY8)	9: (80%)	13
		10	
		11: 12:	
		13:	
		14: 15:	
		16: 17:	
		18:FR 19:RR	
		20:2DF 21:3DF	
		22:5DF 23:9DF	
		24:AD2 25AD3	
		26:JOG 27:MBS	
		28:ES 29:RST	
		31: 32:	
		33 35	
		36: (F1704)	
		37 99:	

■

CHARGE