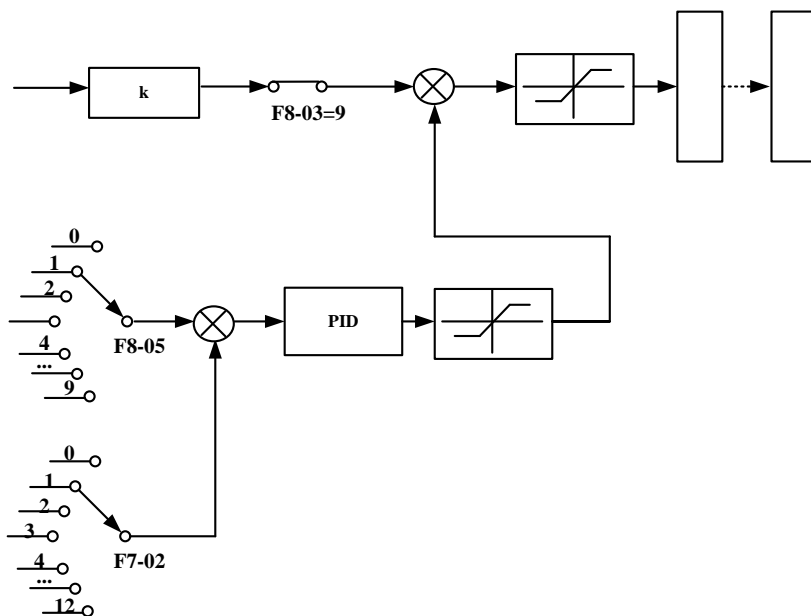


	.....	2
1.1	.....	2
1.2	.....	2
	1 F8-00=1).....	3
	2 (F8-00=2	4
	3 F8-00=3	5
	.....	6
F8	.....	6
	.....	10
	.....	11
	.....	11
PID	.....	12
	.....	12
	.....	13
3.1	.....	13
3.2 PID	.....	27
3.3	.....	27
3.4	.....	29
3.5	.....	29
3.6	.....	29

SB73WD

1 F8-00=1)

PID PID



$$f = k u \frac{v \cdot \omega \cdot \dot{u}}{SD}$$

f	Hz
v	m/min
i	F8-02
D	m

P
k

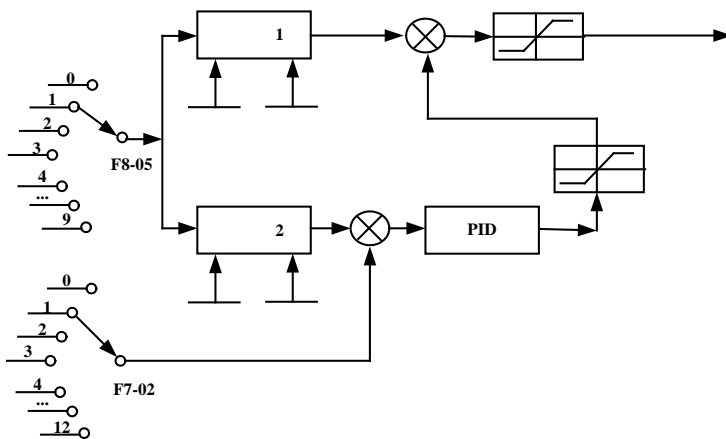
AI 1 AI 1

PID

PID

2 (F8-00=2

PID



PID

$$T \quad \frac{F \cdot uD}{2 \cdot \dot{u}}$$

T	N. m)
F	N
D	m
i	F8-02

SB73WD

1

2

3

F8-00=3

PID

PG

PG

“ ” “ ”
“ ”

“ × ”

) δ ο { ς*Û s6Ñ – D

F8-00		0 1 2 3 4	0	×
F8-01		0 1 2	0	×
F8-02		0.01 300.00	1.00	×
F8-03		0 1 AI 1 2 AI 2 3 PFI 4 UP/DOWN 5 8 1 4 9	0	×
F8-04		0.00% 250.00	0.00%	
F8-05		0 1 AI 1 2 AI 2 3 PFI 4 UP/DOWN 5 8 1 4 9 PID	0	×
F8-06		-100.0 100.0%	0.00%	

F8-07		0 F8-08 1 AI 1 2 AI 2 3 PFI 4 UP/DOWN 5 8 1 4	0	×
F8-08		-100.0 100.0%	0.00%	
F8-09		0.00Hz F0-06	0.00Hz	
F8-10		0 30000N	0N	×
F8-11		0 F8-12 1 AI 1 2 AI 2 3 PFI 4 UP/DOWN 5 8 1 4	0	×
F8-12		0.00 100.00%	0.00%	
F8-13		0 10000mm	0mm	×
F8-14		0 1 AI 1 2 AI 2 3 PFI 4 UP/DOWN 5 8 1 4 9	0	×
F8-15		1 10000mm	2000mm	×
F8-16		1 10000mm	400mm	×
F8-17		0 1 0	00	×

		1		
F8-18		0 1 AI1 2 AI2 3 PFI 4 UP/DOWN 5 8 1 4	0	×
F8-19		0.1 6500.0m/min	1000.0m/min	×
F8-20		0.1 6500.0m/min	10.0m/min	×
F8-21		0.000 65.000s	0.500s	
F8-22		00 11	00	
F8-23		-100.0% 100.0%	40.0%	×
F8-24		0.001 65.000s	0.010s	
F8-25		0 60000kg/m ³	7800kg/m ³	×
F8-26		0 10000mm	1000mm	×
F8-27		0 60000kg.m ²	0 kg.m ²	×
F8-28		-100.0% 100.0%	0.00%	
F8-29		-100.0% 100.0%	0.00%	
F8-30		0.000 65.000s	0.100s	
F8-31		0.000 2.000	0.000	
F8-32		0 1	0	×
F8-33		-1.000 1.000	0.000	
F8-34		0 1 2 3	0	×
F8-35		0.00Hz F0-06	10.00Hz	
F8-36		0.00 100.00s	1.00s	
F8-37		0.00 100.00	10.00%	

F8-38		0.000 20.000s	6.000s	
F8-39		0 1 2 3	0	×
F8-40		0 F8-41 1 AI1 2 AI2 3 PFI 4 UP/DOWN -50.00% 50.00%	0	×
F8-41		-50.00% 50.00%	0.00%	
F8-42		0 1	1	×
F8-43		0 1	0	×
F8-44		0.000 10.000s	0.000s	
F8-45		0.0 100.0s	0.0s	
F8-46		0 10000mm	10000mm	
F8-47		0 500mm	50mm	
F8-48	0	0.01 100.00mm	0.8mm	
F8-49	1	0.01 100.00mm	0.8mm	
F8-50	2	0.01 100.00mm	0.8mm	
F8-51	3	0.01 100.00mm	0.8mm	
F8-52		0.01 100.00mm	1.00mm	
F8-53		0 1	1	×
F8-54	1	0.0 200.0s	5.0s	
F8-55	2	0.0 200.0s	5.0s	
F8-56	PID	0 2000ms	50ms	
F8-57		0 1 AI1 2 AI2 3 PFI 4 UP/DOWN	0	×

		5 8 1 4			
		9			
F8-58		1 60000()	10000		
F8-59		1 10000	1		
F8-60		0 1	0	×	
F8-61		1 10000mm	400mm	×	
F8-62		0 F8-16 1 F8-63	0	×	
		2 F8-64 3 F8-65			
		4 59 60			
F8-63	1	1 10000mm	400mm	×	
F8-64	2	1 10000mm	400mm	×	
F8-65	3	1 10000mm	400mm	×	
F8-66		0.00 650.00s	0.00s		
F8-67		0 F8-48 1 F8-49	0	×	
		2 F8-50 3 F8-51			
		4 57 58			
F8-68		0 1	0		
F8-69		0.00 650.00s	0.00s		
F8-70	PID	0 SB70	0		
		1 PID 0			
D +Eg 90Å \$ - ÈF¼ Ú					
F4-00	X1	22	1	×	
F4-01	X2	23		2	×
		24			
F4-02	X3	25		3	×
F4-03	X4	26 PID	4	×	

		48		
3, '- D - ÈF¼ Ú				
F7-11	PID	0 36" PID 2 1 2 5 1 4 6 7	0	×
Fd-31		0 100%	100%	
Fd-32		0.000 10.000	0.000	
D B, ¥?š s6Ñ + - ÈF¼ Ú				
FU-21		1mm 2.5 0.1%	0 100% 0	

3.1

F8-00			0		×
	0 4				

F8-00=0

F8-00=1

F8-00=2

F8-00=3

F8-00=4

F8-01			0		×
	0 2				

F8-01=0

F8-01=1

F8-01=2

F8-01=1 , F7-15=0

F8-01=2

F7-15=1

F8-02			1.00		×
	0.01 300.00				

F8-03			0		×
	0 9				

F8-03					
0		PID	0	PID	
1	AI 1	F6	AI 1		
2	AI 2	F6	AI 2		
3	PFI	F6	PFI		
4	UP/DOWN	F4		UP/DOWN	

5 8	1 4	FE
9		

F8-04			0.00%		
	0.00% 250.00%				



F8-08			0.00%		
	-100.0% 100.0%				

F8-07

F8-07					
0	F8-08		—		
1	AI 1		F6	AI 1	
2	AI 2		F6	AI 2	
3	PFI		F6	PFI	
4	UP/DOWN		F4	UP/DOWN	
5 8		1 4	FE		

F8-08

100%

F8-10

F8-10=3000N

1500N

= 1500 ÷ 3000

100%=50.0%

F8-08

50.0

F8-09			0.00Hz		
	0.00 F6-06				

F8-10			0N		×
	0 30000N				

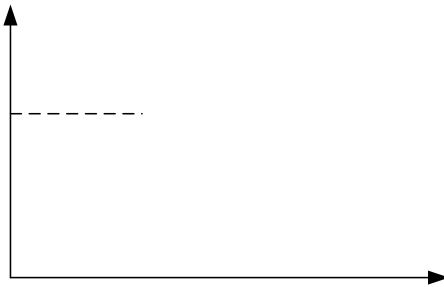
100%

F8-11			0		×
	0 8				
F8-12			0.00%		
	0.00 100.00%				
F8-13			0mm		×
	0 10000mm				

$$F = F_0 \left(\frac{D_0}{D_1} \right)^k$$

F N
 F0 N
 k
 D mm
 D0 mm
 D1 mm (F8-13)

F8-11		
0	F8-12	—
1	AI 1	F6 AI 1
2	AI 2	F6 AI 2
3	PFI	F6 PFI
4	UP/DOWN	F4 UP/DOWN
5 8	1 4	FE



V)Ñ%° • Ā)Ñ%° H1 Vi • – Áf ní)Ñ%° ĩF nÀðl Ð€°V)Ñ%° R iÀQ"±Tô)Ñ%° ‡\$

F8-14			0		×
	0 9				
F8-15			2000mm		×
F8-16			400mm		×
	1 10000mm				

F8-14

F8-14		
0		F8-18
1	AI 1	F6 AI 1
2	AI 2	F6 AI 2
3	PFI	F6 PFI
4	UP/DOWN	F4 UP/DOWN
5 8	1 4	FE
9		

“ 0 9”

FU-21

F8-61

F8-61

F8-18			0		×
	0 8				
F8-19			1000. 0m/mi n		×
F8-20			10. 0m/mi n		×
	0. 1 6500. 0m/mi n				
F8-21			0. 500s		
	0. 000 65. 000s				

F8-18

FU-23

F8-18					
0					—
1	AI 1		F6	AI 1	
2	AI 2		F6	AI 2	
3	PFI (		F6	PFI	
4	UP/DOWN		F4		UP/DOWN
5 8		1 4	FE		

“ ”

F8-19

(F0-06)

(F8-20)

20%

F8-21

F8-22			00		×
	00 11				
F8-23			40%		×
	-100% 100%				

F8-22=00

F8-22=11

“ 11”

“ 00”

F8-23

100%

F8-24			0.010s		
	0.000 65.000s				

F8-25			7800kg/ m ³		×
	0 60000kg/ m ³				
F8-26			1000mm		×
	0 10000mm				
F8-27			0kg.		×
	0 60000kg.				

F8-25 F8-26

$$J_v = \frac{w u \mathcal{U}}{i^2} u D^4 D_0^4$$

\mathcal{U} (kg/ m³)
 w (m)
 D (m)
 D_0 (m)

	kg/ m ³		kg/ m ³
	21.5 × 10 ³		7.9 × 10 ³
	19.3 × 10 ³		7.9 × 10 ³
	11.3 × 10 ³		2.7 × 10 ³
	10.5 × 10 ³		8.9 × 10 ³
	2.7 × 10 ³	—	—

F8-28			0.00%		
F8-29			0.00%		
	-100% 100%				

F8-29

F8-28

100%

F8-30			0.100s		
	0.000 65.000s				
F8-31			0.000		
	0.000 2.000				

$$Jv_1 \quad k \quad uJv$$

k

$$Jv \quad \frac{w \ u \ U}{i^2} \quad u \ D^4 \quad D_0^4$$

0.000 (F8-31) 1.000
1.000 F8-31

F8-30

F8-32			0		×
	0 1				
F8-33			0.000		
	-1.000 1.000				

F8-32

F8-32=0

F8-32=1

F8-33

100%

FU-22

F8-34			0		×
	0 3				

F8-34=0

F8-34=1

	0 10000mm				
F8-47			1mm		
	0 500mm				
F8-46	=	+	2		
F8-47	=				
F8-48	0		0.8mm		
	0.01 100.00mm				
F8-49	1		0.8mm		
	0.01 100.00mm				
F8-50	2		0.8mm		
	0.01 100.00mm				
F8-51	3		0.8mm		
	0.01 100.00mm				
F8-52			1.00mm		
	0.01 100.00mm				
F8-67			0		
	0 4				

(F8-14=9)

F8-52

F8-67

F8-67=0 F8-48

F8-67=1 F8-49

F8-67=2 F8-50

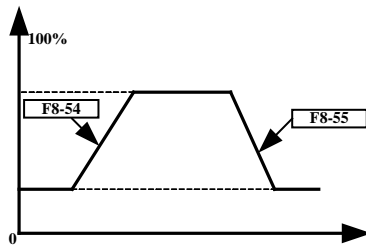
F8-67=3 F8-51

F8-67=4 57 1 58 2 ,

F8-53			1		×
	0 1				
F8-54	1		5.0s		
	0.0s 100.0s				
F8-55	2		5.0s		

	0.0s 100.0s				
F8-56	PID		50ms		
	0 2000ms				

PID



F8-53=0

F8-53=1

F8-54 1

F8-55 2

F8-56 PID PID

F8-57			0		×
	0 9				

F8-58		
0		" 61"
1	AI 1	F6 AI 1
2	AI 2	F6 AI 2
3	PFI	F6 PFI
4	UP/DOWN	F4 UP/DOWN
5 8	1 4	
9		, FU-15

PFI

0 10V

10V 4 20mA 20mA

F8-59

F8-58			10000		
	1 60000				

PFI

F8-59			1		
	1 0000				

=

1000 200mm 0.2mm 1000 F8-59

F8-60			0		×
	0 1				

F8-60=0

F8-60=1

F8-14=9

FU-60

F8-61			400		×
	1 (F8-15)				

1

2

F8-62			0		×
	0 4				
F8-63	1		400mm		×
	1 10000mm				
F8-64	2		400mm		×
	1 10000mm				
F8-65	3		400mm		×
	1 10000mm				

F8-61 59 60 ,

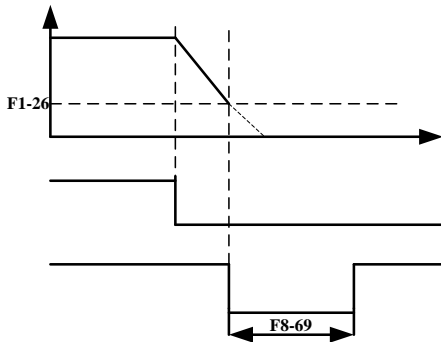
F8-62=0 F8-16 F8-15
 F8-62=1 1 F8-63
 F8-62=2 2 F8-64
 F8-62=3 3 F8-65
 F8-62=4 59 60

F8-66			0.00s		
	0.00 650.00s				

F8-68			0		
	0 1				
F8-69			0.00s		
	0.00 650.00s				

F1-26 /

F8-68
 F8-68=0
 F8-68=1 F8-69
 F8-69



6" "

F8-70	PID		0		
	0 1				

F8-70=0 SB70

3, ' - D - ÉF¼ Ú

Fd-31			100%		
	0 100%				
Fd-32			0.000		
	0 10.000				

PID

PID					
F7-11 PID	0	36"	PID	2	
	1				
	2	5	1	4	
	6				
	7				

3.3

F4-00 X1	22				
F4-01 X2	23				
F4-02 X3	24				
F4-03 X4	25				
F4-04 X5	26	PID			
F4-05 X6	27				
F4-06 FWD	28				
F4-07 REV	30				
	31				
	55				
	56	PID	PID		
	57	1			

	58	2
	59	1
	60	2
	61	
	62	

X1 X6

FWD

REV

SB70

22

23

24

F8-01=1

F8-01=2

25

26 PID

PID

27

28

30

31

55

PID

56

PID

PID

PID

PID

57 58

2

57	1	58	2	
0		0		0
1		0		1
0		1		2
1		1		3

59 60

F8-61

4

2

59	1	60	2	
0		0		F8-16 F8-15
1		0		1
0		1		2
1		1		3

61

¾

¾

3.4 D + Eg Î `4»+ <Eg Î → ÈF¼ Ú

F5-00	Y1		24
F5-00	Y2	-	25
			26
			27

SB70

FU-22	2.5	100%	0.1%
FU-23			0.1m/min
FU-60	0		