



ALPHA6000E ALPHA6000M

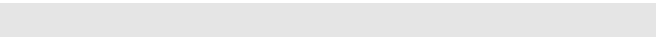
PG

36

RS-485

' () * + , - \$ / 0 1 ! " # \$ % &
45 67 89 : ; <

	u \$ = >? @ , A BC =D E&>?F GH I J:K L MN ;<F O \$
	u PQ RS (T: U V WX. Y Z/[\\] ^_`/\\] abc def WX ghijk (T l m n opq r P s+ e >?
	u tu U v wxU V W 2 wx yz IEC * { } ~O•
	u F k F GH
	u j MOSFET k P2 d ef V WX IGBT j k s +
	u O O 2 p O
	u t q o e t u



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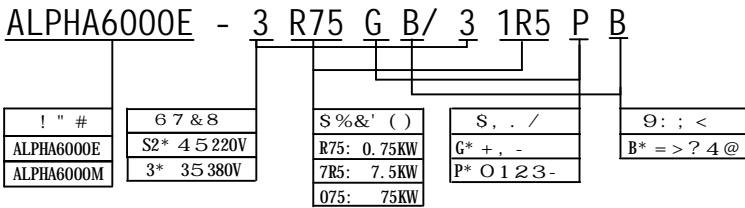
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1.1

E F G RS Hs I J K G
 * F ? L Hs M J A NOFO1 PQ RS

1.2

& * + T U



1-1

ALPHA6000E ALPHA6000M
 SVC V/F

V/F

ALPHA6000M-S2R4GB ALPHA6000M-S2R75GB

SVC

1.3

VWXT - O/ ? L X T ALPHA6000E 8Y
 Z ALPHA6000M } ~ :



1-2



Q

2.1.3

a @\ 2 t d. @\]C E v^u9dh j 2_`
x 40({ | b T j 2 45
89 /j g
x

2.2

F YZ8F t8Y YZc x' (Tt d {
2-1 2-2U (2-1 23DE67

Q

风扇

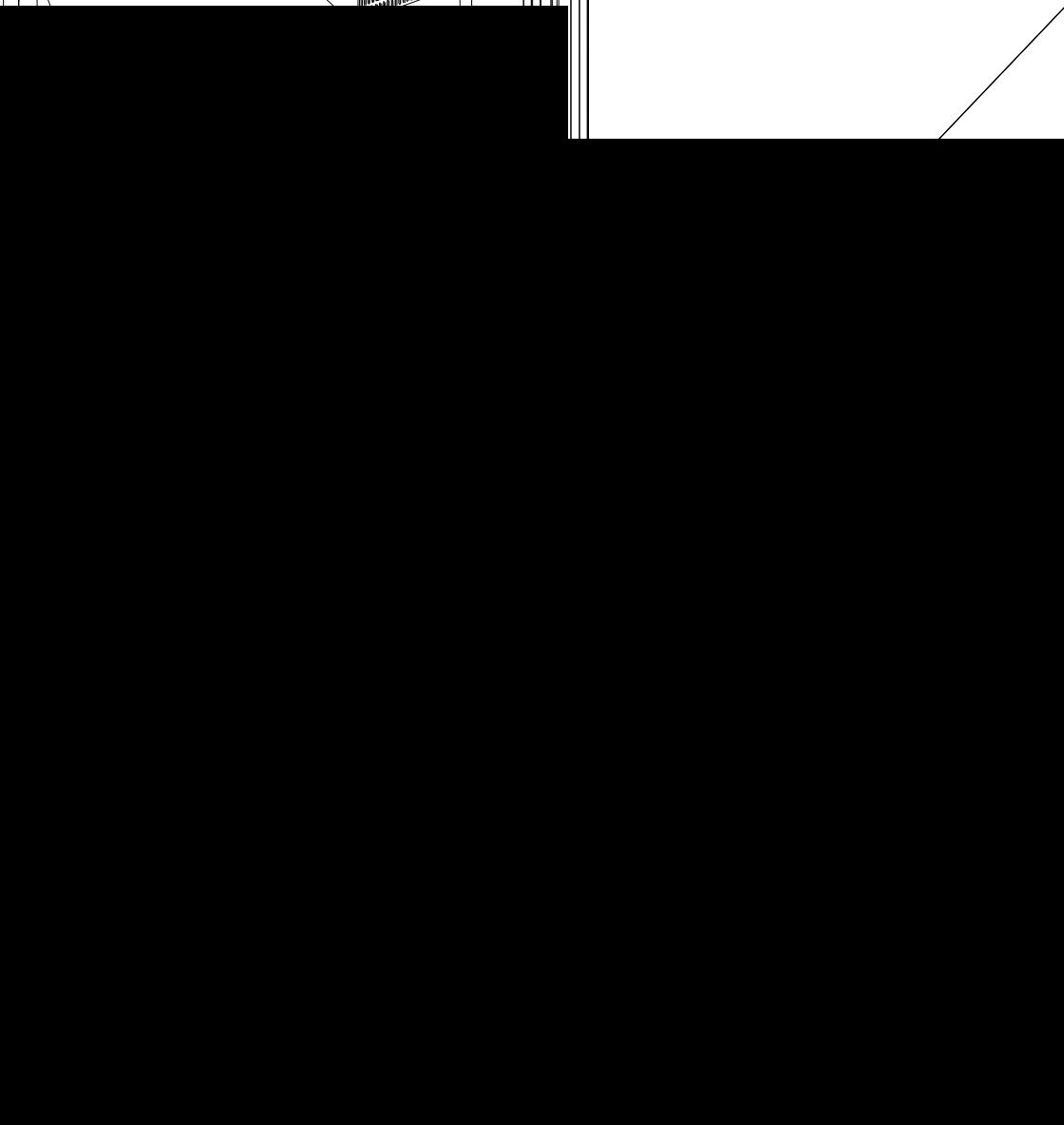
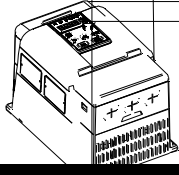
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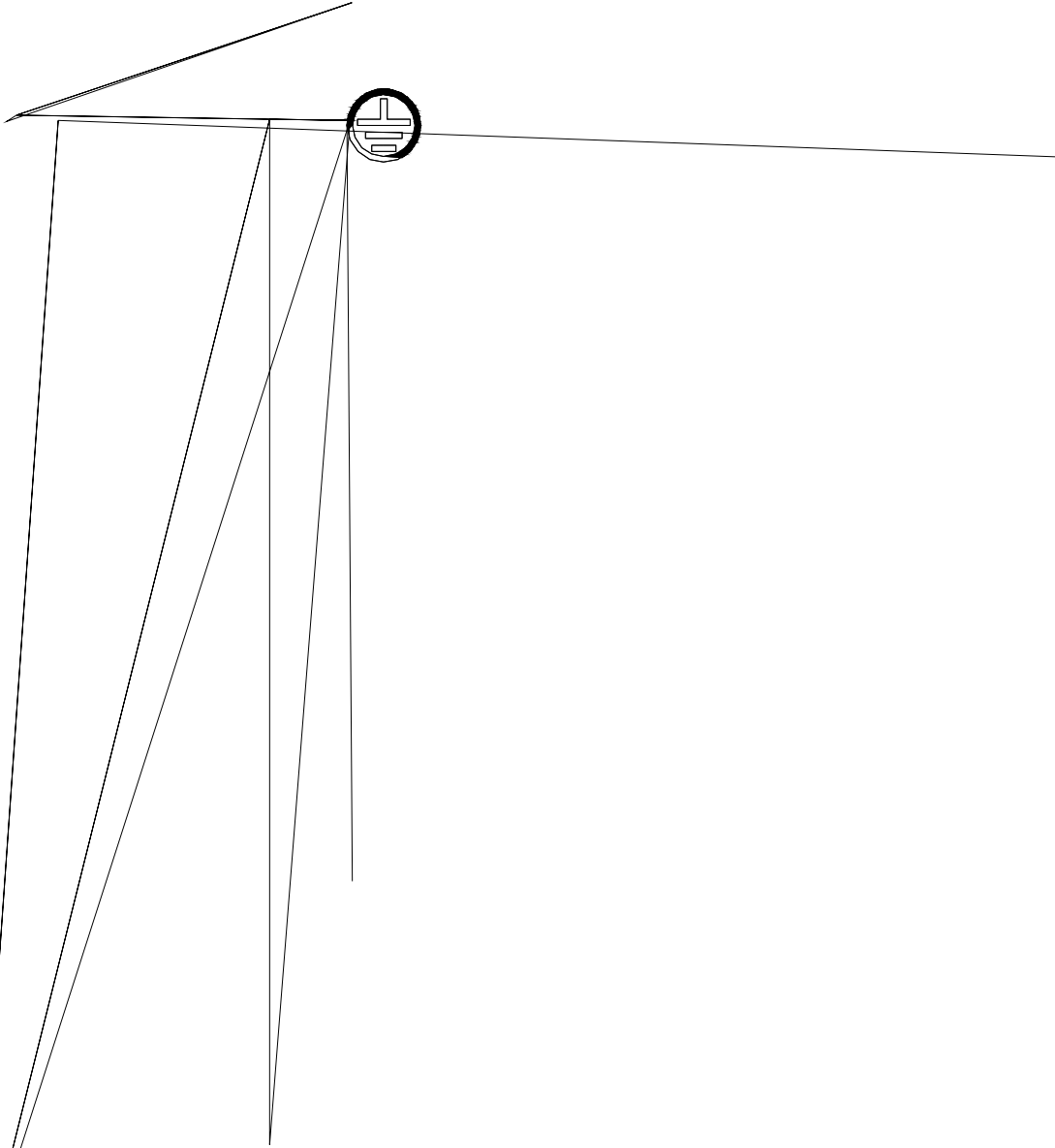
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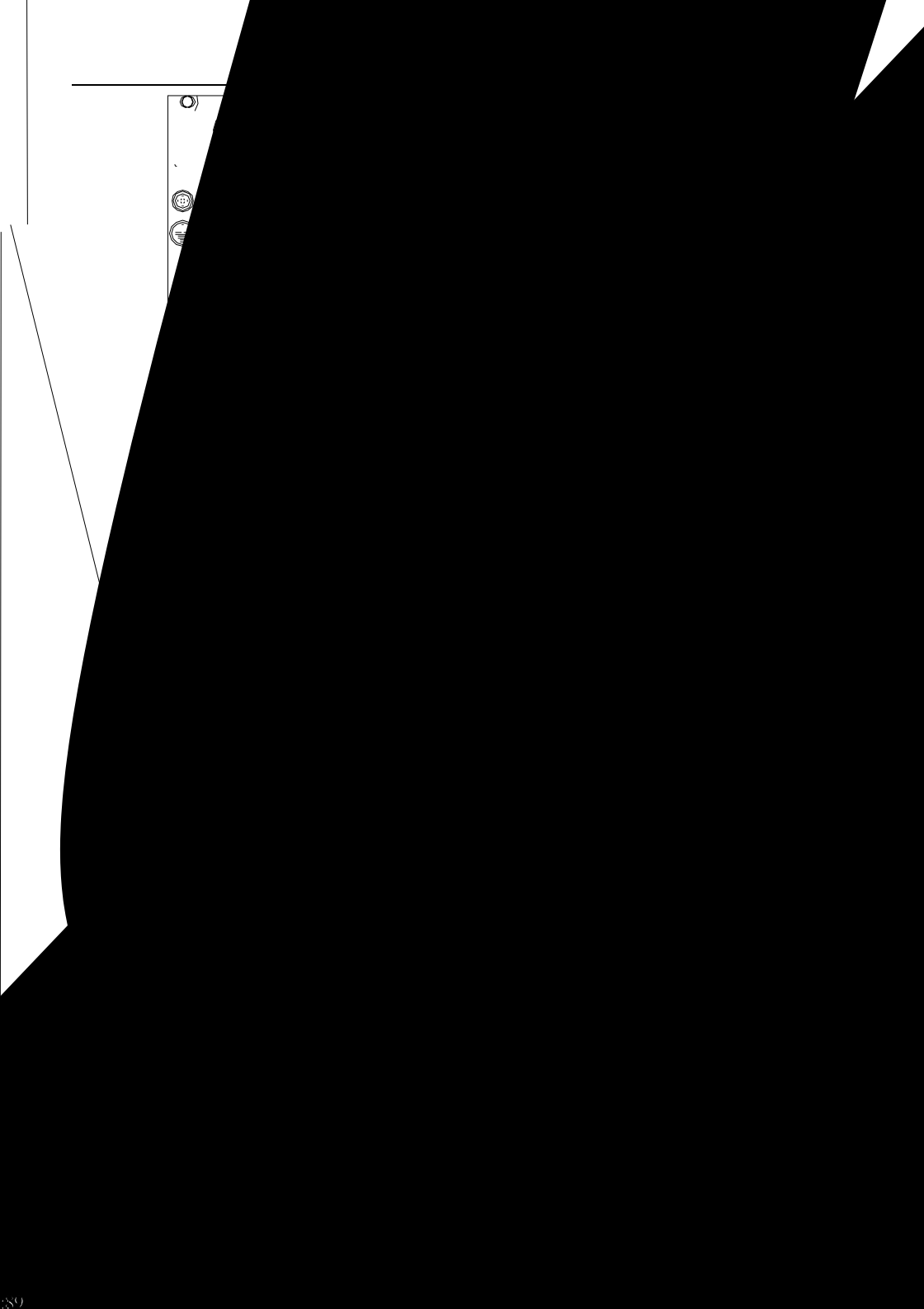
进出

风扇

风扇安装板

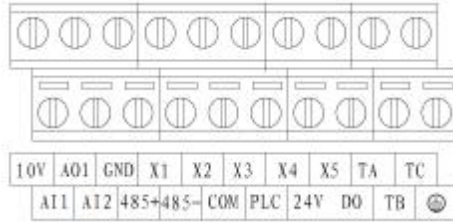




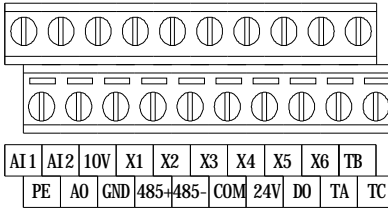


2.4

2.4.1

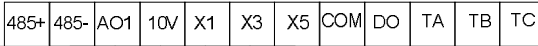


2-15 S2R4GB S2R75GB



2-16 S21R5GB S22R2GB 3R75GB/31R5PB

(2-17 639rsxrsIJKL[\ >2%/<=\L7KLF&%@<=\L&k#zBy=j 50m





10V
20mA
2 UGND

10V
-10V 10V

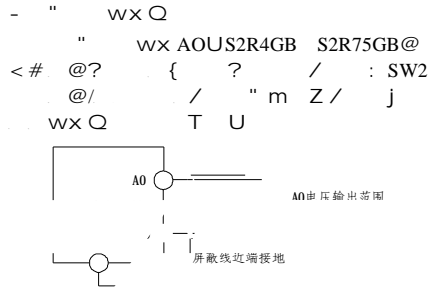
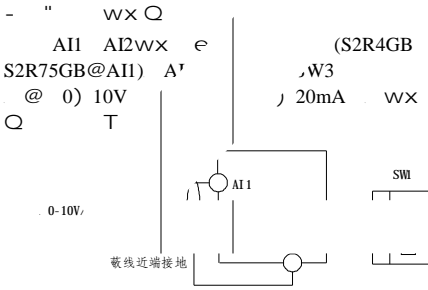
10mA/4) 20mA/
10V/2) 10V

10mA/4) 20mA/
10V/2) 10V

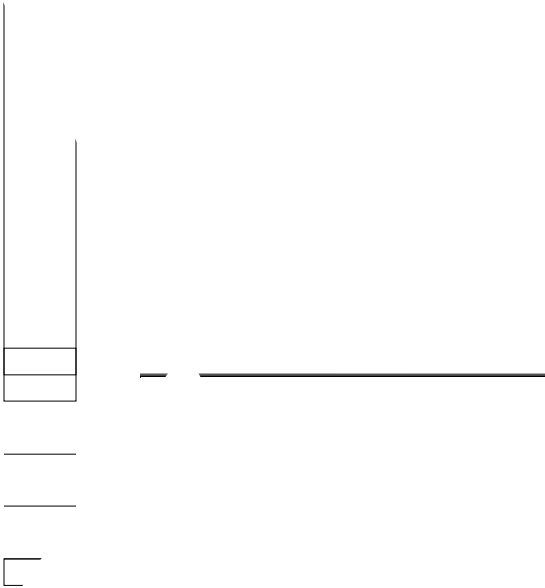
GND
mn

wx	X1	wx 1	3 4 : wx 1 5.4 I/Owx P3 wx	z 5' N 4 1 R=3.9kt U400Hz @ OU0) 30V 2 UCOM
	X2	wx 2		
	X3	wx 3		
	X4	wx 4	3 4 : wx / 3 # \$ w S2R4GB S2R75GB l 3 4 : wx 1 5.4 I/Owx P3 wx	z 5' N 4 1 R=3.9kt U 400Hz/50KHz(S21R5GB S22R2GB 3R75GB/31R5PB) @ OU0) 30V 2 UCOM
wx	X5	wx 5	\$ 3 4 : wx / 3 4 # \$ w 1 5.4 I/Owx P3 wx	z 5' N 4 1 R=3.9kt U50KHz @ OU0) 30V 2 UCOM
	X6 S2R4 GB S2R75G B j	wx 6	\$ 3 4 : wx / 3	

2.4.2



?-18



Q

2-21 PLC。 围) 仅有模拟
HS TU PC 3 HPLC B

压输出此

OP8SRS232/RS485

PLCV 2 t B

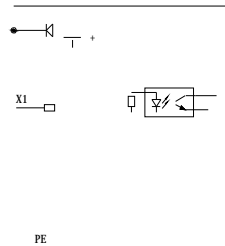
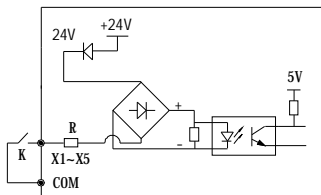
RS485wx F

PC V 2

FQ

RS485wx z wJ W

入

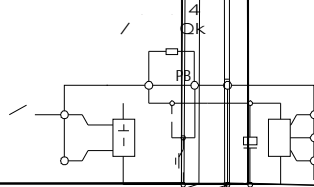


& BC*

pqr s 24Vt uv COMt uog Mwxmnyz { | } ~ • N
 2p ` , ab&c \ lmm D g | > t u N
 3p ` , ab&c] M&c ab ~ t ~ t Dk %~ gh gF
 ~ gh} PEN
 4p \] | > & c k & v & \ & \ A & ' \ A & \ Ag g \ D
 30cm M d I M | > & c v & & c M Z [z { ? N
 X. ^ _ CN2 = ^ RJ-45F On [k T X=X _ ` D X F
 ^ _ X 3 a L P# ^ _
 5 6000E LED CPU

^ _ F X O • } F RJ-45 W { w ! EIA/TIA568B
 b O • a L G ^ _



2.5 口多 通讯



2.6 时推

I 2 9, U
I p 2 9 8 U 9 ; <
I P /O\$ 23 1 e• 2 1000V sf gmG /O\$ =
h 4 >{ 4X 4Mt
I Zc\L m \$mn/ 2i * W) * MN W

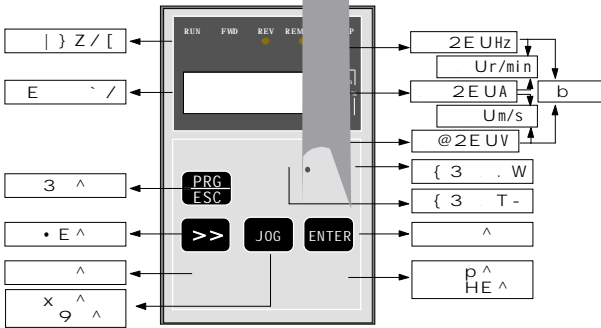
I 89KL ~ W , O mn (N / 50j
I 9dtmn mn? ek{|\L \$ /q h =tl m mn?Xn
I o@(T @ sJAO
I p5/; }E wxpPEp W wxpPEp(T { | \$
v W I *F W I *F8q K ' (RS
rs ~ Hsrj \$ r sHs s wxj b l Hs { | wx|

 危険	1 nwx/\ O U d t/\ e >? 2 d \$ D 2 uv eG > ?
 注意	1 def 2 4{ w @q W 4 e FwG >? 2 x8 !" O ; < eG >? 3 dRS \$ 4 d 5 \$ k 2p \$ \$

3.1 荐全 。部良



* F ? z/?@A y ^_ ^F` / ! 8
 FJ: 3! 8 ^_Q E. z LED ^ { 3 |} Z
 / [2EZ/[K ^_= \$ ~ |} j

3.1.1 荐全 好




3.1.2 式荐

^_ . \$ 8S ^ VS ^ 4 m3-1 /
3-1 荐全式荐

式荐	式荐	式荐
	3 / ^	3 | } | } 2 PRG/ESC ^ 9 k 3 | } x ENTER ^ s L PRG/ESC B k L xk xk | } s 2 9 ^ / , 2 9 , | } F
	^	Ts 2 \$ 2 ; oX

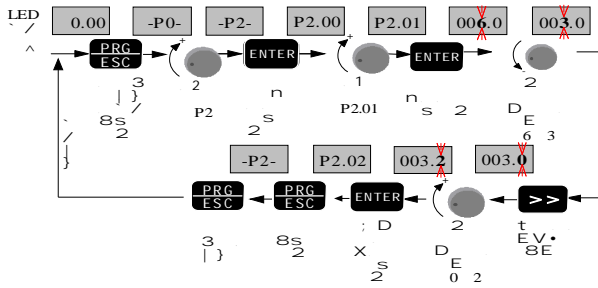
{ 3
W^(2)
↻



本	行事	行事
REV C Z /	]	C
REV C Z /		C P%
		C
TRIP Z / []	*
REMOTE Z / [	]	^ _ | }
		wx | }
		A | }

3.1.4 荐全 部良

^ _ =	Z T U
| } \ / 9 U	
50.00	45.00
50.00	1440
	1440
	\$
	\$



3-5 基 部良

s 2 | } T E m / k D b U
 I k D RG .
 I k | } T D O D
 I \$ PF.01=1 22 npD H 89- 3
 t PF.01 \$ 0 j ! " D

3.2 通讯 与

&c Z e p w &c b U
 I ^_ U ^_ p/HE ^ x P2.51=1 ^
 I wx U wx FWD REV COM { FWD REV HLD
 I A U E p
 \$ p | } 2 D P0.07 o \$ ^_
 P0.07 \$ 0 Qwx F p + wx wx 2 p/HE ^^
 + wx STOP ^
 QA + \$ &c A
 ^_ REMOTE Z / [\] | } m ^_ | } x | } m wx | }
 m A | }

3.3 通讯

3.3.1 通讯 与

b y UJOG x PID PLC b 2 F
 I JOG x U | } kx &c Z ^_ x ^ T P2.51=0 x
 1 P2.00) P2.02
 I PID UPID P0.03=11 t W z FC
 PI 1 P7
 I PLC b 2 UPLC P0.03=10 t PLC z i \$
 1 P5 wx 43 L t PLC b
 1 P3 wx 44 L t PLC | } HE 1 P3
 I UW 2 ^_ { \$ wx AI1 # \$ A z
 F wx UP/DOWN U 7

3.3.2 部良

U z R Q URS nN~ O Wu
 U : e * ZO \$ \ / 2 + p r

	基			MODBUS
P0.15	T	0.00Hz)	0.00Hz	010F
P0.16	@	60) 480V	@	0110
P0.17		0U { b (1) 250) (0.01Hz 1rpm)U	0	0111
P0.18	P ≥ 1	132kW 0.1) 3600s 160kW 1.0) 3600s	22kW T U 6.0s { | U 20.0s	0112
P0.19	% ≥ 1	132kW 0.1) 3600s 160kW 1.0) 3600s	22kW T U 6.0s { | U 20.0s	0113

P1U

	基			MODBUS
P1.00		0UB 1U (J) × B 2U 1(PG X 3004GB T <#) 3U 2(^k) 4U 8 R H /j HE GQ - 89	0	0200
P1.01		0.10) 60.00Hz	0.50Hz	0201
P1.02	# 2	0.0) 10.0s	0.0s	0202
P1.03		y ? G ? U 0) 100.0% P ? U 0) 80.0% 0) 100.0% I V/F 80% Q P 8.00 i J \$ \$ / 100% 2 100%	0.0%	0203
P1.04	2	0.0) 30.0s	0.1s	0204
P1.05	i	0.00Hz)	0.00Hz	0205
P1.06	i # 2	0.0) 3600s	0.0s	0206
P1.07	P%	0U 1US 2U(j) 3U(j)	0	0207
P1.08	S z 2	10.0) 50.0% P% 2 P1.08 > P1.09 90%	20.0%	0208
P1.09	S Wz 2	10.0) 80.0% P% 2 P1.08 > P1.09 90%	60.0%	0209
P1.10		0U% 1UGQ 2U% +	0	020A
P1.11		0.00) MIN[15.00Hz]	1.00Hz	020B
P1.12	2	0.00) 10.00s	0.00s	020C
P1.13	U \$	0U { \$ 1Uwx A11 2Uwx A12 S2R4GB F S2R75GB j 3U j 4U# \$ 5U 100%	0	020D
P1.14		y ? G ? U 0.0) 100.0% P ? U 0.0) 80.0%	0.0%	020E
P1.15	2	0.0) 30.0s	0.0s	020F
P1.16	#	0.00Hz)	0.00Hz	0210
P1.17	# 2	0.0) 3600.0s	0.0s	0211
P1.18		0U 1U 2U J 3U F J	3	0212

m

#	基			
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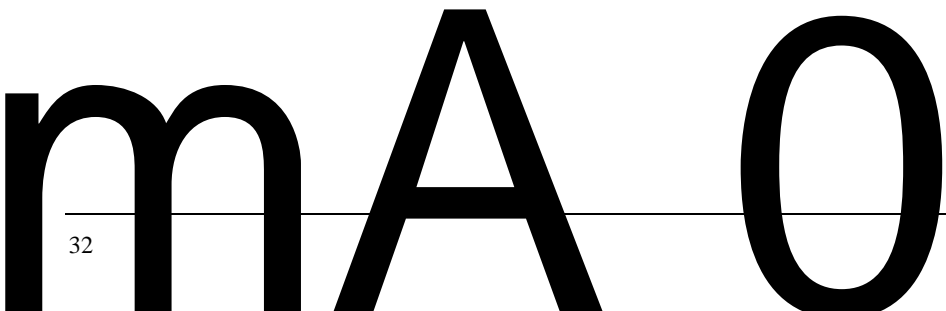
P2.34) * % 2	132kW 0.1) 3600s 160kW 1.0) 3600s	22kW T U.0s { U 10.0s	0322
P2.35	P% 2	0U 1 1U10 2U0.1	0	0323
P2.36	YZ & [	0UG p 1U & [8	0	0324

.13 基 e					MODBUS	
P3.03	X3 wx	4	0) 79Uz . 50UT e} \ L 51UT i HE 53U 22E 74U wx 77UPID 0 78UPID b2 HE 79U&c9 v ^ _ 45 46 52 54) 73 75 76U j	37		0403
S21R5GB S22R2GB 3R75GB/31R5PB ? U						
P3.04	X4 wx	4	0) 79Uz . 82U+J G BJ # \$	0		0404
P3.05	X5 wx	4	0) 79Uz . 80UPULSE # \$ 81U2J G # \$ +J G AJ # \$	0		0405
P3.06	X6 wx	4	0) 79Uz .	0		0406
S2R4GB S2R75GB T ? U						
P3.04	X4 wx	4	0) 79Uz .	0		0404
P3.05	X5 wx	4	0) 79Uz . 80UPULSE # \$ 81U2J G # \$	0		0405
P3.06	j		-	-	*	0406
P3.07	j		-	-	*	0407
P3.08	j		-	-	*	0408
P3.09	j		-	-	*	0409
P3.10	j		-	-	*	040A
P3.11	j		-	-	*	040B
P3.12	j		-	-	*	040C
P3.13	X wx e • 2		0.002s) 1.000s	0.010s		040D



基				MODBUS
j	/ # \$ X =	-100.0%) 100.0%	0.0%	050C
	# \$ X	P4.11) 50.00kHz	50.00kHz	050D
j	# \$ X =	-100.0%) 100.0%	100.0%	050E
j	-	-	-	* 050F
j	-	-	-	* 0510
j	-	-	-	* 0511
j	-	-	-	* 0512
j	-	-	-	* 0513
j	-	-	-	* 0514
A01	4	0UNULL 1U (0) 2) 2U @ (0) @) 3UPID (0) 10V) 4UPID C (0) 10V) 5U • \ L (5V) 6U (0) 2) 7U (0) 2) 8Uk @ (0) 1000V) 9UA11 0) 10V/0) 20mA 10UA12 0) 10V/0) 20mA S2R4GB F S2R75GB j 11U j 12U 0) 13U 0) 14U 0) 2	0	0515
A02	@ 639 X	0UNULL 1U (0) 2) 2U @ (0) @) 3UPID (0) 10V) 4UPID C (0) 10V) 5U • \ L (5V) 6U (0) 2) 7U (0) 2) 8Uk @ (0) 1000V) 9UA11 0) 10V/0) 20mA 10UA12 0) 10V/0) 20mA S2R4GB F S2R75GB j 11U j 12U 0) 13U 0) 14U 0) 2	0	* 0516
j	-	-	-	* 0517
D0	0) 14 z P4.21		0	0518
A01	○	0U0) 10V/0) 20mA 1U2) 10V/4) 20mA	0	0519

426 6.48 Tf j16.32 0 T -0.12 Tc (j6.48 Tf 6.48 0 TD () Tj 60.72 0 T60.712 Tc (-) Tj 174 6.48 5742 Tc (-74 6.48 .046 Tc) 74.012 Tc (0) (T)-



P5UPLC

	基	0		MODBUS
P5.00	b	0U2c 1 1U2c 2 # X 2U [c	2	0600
P5.01	PLC , x	0UB 8z 1UB , 2 z 9[2UB , 2 9[	0	0601
P5.02	g 2 PLC | } ;	0U ; 1U ; \$ 0 2G b .	0	0602
P5.03	z 2 2E	0U 1Ub	0	0603
P5.04	b 2 T1	0.1) 3600	10.0	0604
P5.05	b 2 T2	0.0) 3600	10.0	0605
P5.06	b 2 T3		10.0	0606
P5.07	b 2 T4		10.0	0607
P5.08	b 2 T5		10.0	0608
P5.09	b 2 T6		10.0	0609
P5.10	b 2 T7	0.0) 3600	10.0	060A
P5.11	b 2 T8		10.0	060B
P5.12	b 2 T9		10.0	060C
P5.13	b 2 T10		10.0	060D
P5.14	b 2 T11		10.0	060E
P5.15	b 2 T12		10.0	060F
P5.16	b 2 T13		10.0	0610
P5.17	b 2 T14		10.0	0611
P5.18	b 2 T15		10.0	0612
P5.19	T1 z b \$	1 F/r) 4 F/r	1F	0613
P5.20	T2 z b \$		1F	0614
P5.21	T3 z b \$		1F	0615
P5.22	T4 z b \$		1F	0616
P5.23	T5 z b \$		1F	0617
P5.24	T6 z b \$		1F	0618
P5.25	T7 z b \$		1F	0619
P5.26	T8 z b \$		1F	061A
P5.27	T9 z b \$		1F	061B
P5.28	T10 z b \$		1F	061C
P5.29	T11 z b \$		1F	061D
P5.30	T12 z b \$		1F	061E
P5.31	T13 z b \$		1F	061F
P5.32	T14 z b \$		1F	0620
P5.33	T15 z b \$		1F	0621
P5.34	b ' i	0U 1U 0 0 G H 0	0	0622
P5.35	b z '	0) 15	0	* 0623
P5.36	b z 2	0.0) 3600	0.0	* 0624

mf2G

基

MODBUS

P7.mf2G

	基			MODBUS
P7.31	KP X T	0.01) 2.55	0.06	081F
P7.32	: KP X	0.01) 30.00	0.10	0820
P7.33	# 2	0.01) 999.9s	10.0s	0821

P8U

S2R4GB S2R75GB

	基			MODBUS
P8.00	i J	0.0) 500.0% 100.0% = 2 P1.04 \$ 80% F /	100.0%	0900
P8.01	Z O 1	0.1) 30.0	2.0	0901
P8.02	b 2 1	0.001) 10.000s	y ?	0902
P8.03	9 1	0.00Hz) 9 2	20.00Hz	0903
P8.04	Z O 2	0.1) 30.0	1.0	0904
P8.05	b 2 2	0.001) 10.000s	y ?	0905
P8.06	9 2	9 1) 650.00Hz	150.00Hz	0906
P8.07	e • 2	0.000s) 9.999s	0.001s	0907
P8.08	" T e • 2	0.0) 20.0ms	0.0	0908
P8.09		0.500) 1.024	0.900	0909
P8.10		0U 1U 2U f	0	090A
P8.11	\$ U	0U { \$ 1UA11 2UA12 S2R4GB F S2R75GB j 3U j 4U# \$ 5UA \	0	090B
P8.12		G ? U0.0%) 200.0% P ? U0.0%) 150.0%	GU160.0% PU130.0%	090C
P8.13		G ? U0.0%) 200.0% P ? U0.0%) 150.0%	GU160.0% PU130.0%	090D
P8.14	\$ U	0.0%) 200.0%	102.4%	090E
P8.15	j	-	-	090F
P8.16	j	-	-	0910
P8.17	" T U	50.0%) 200.0%	117.0%	0911
P8.18	" T U	50.0%) 200.0%	117.0%	0912
P8.19	j	-	-	0913
P8.20	j	-	-	0914
P8.21	j	-	-	0915
P8.22	j	-	-	0916
P8.23	i W	0.0) 50.0%	0.0%	0917
P8.24	i X	0) 20%	5%	0918
P8.25	\$ U	0U P8.11 TURk \$ X8T 1UA11 2UA12 S2R4GB F S2R75GB j 3U j 4U# \$ 5UA \	0	0919
P8.26	f O	40.0%) 160.0%	100.0%	091A
P8.27	f y L	0U 1U j	0	091B
P8.28	i J 2	0.05) 10.00s	y ?	091C

P9U/V/F

	基			MODBUS
P9.00	V/F \$	0U # 0 1U - 1 2.0 2U - 2 1.5 3U - 3 1.2 4U \$ V/F Q P9.01) P9.06	0	0A00
P9.01	V/F X F1	0.0) P9.03	10.00Hz	0A01
P9.02	V/F @X V1	0.0) 100.0%	20.0%	0A02
P9.03	V/F X F2	P9.01) P9.05	25.00Hz	0A03
P9.04	V/F @X V2	0.0) 100.0%	50.0%	0A04
P9.05	V/F X F3	P9.03) P0.09	40.00Hz	0A05
P9.06	V/F @X V3	0) 100.0%	80.0%	0A06
P9.07	W	0.0UG W 0.1) 30.0%U W	75kw T U0.0% 93kw U0.1%	0A07
P9.08	W\$px	0.00) 50.00Hz	16.67Hz	0A08
P9.09	U	0.0) 250.0% 100%	75kw T U80.0% 93kw U0.0%	0A09
P9.10	U 2 *	0.10) 25.00s	2.00s	0A0A
P9.11		0U N 1U 4U > P0.09/4 2	0	0A0B
P9.12	%&e * 2 *	100) 65530	5800	* 0A0C
P9.13	U	0) 40	3	* 0A0D
P9.14	j			* 0A0E
P9.15	j			* 0A0F
P9.16	AVR	0U 1U8 2U@% 2	2	0A10
P9.17		0UN 1U 1 2U 2 4UV220 . _ <#	0	0A11
P9.18	Td (' bQ)	0.00) 10.00Hz	0.00Hz	0A12
P9.19	@ U	0U { \$ 1Uwx AI1 2Uwx AI2 S2R4GB F S2R75GB j 3U j 4U#\$ 5U @ 100% I V/F bN T	0	0A13
P9.20	@	0.0%) 100.0%	0.0%	0A14
P9.21	() *	50) 500	100	0A15
P9.22	j	1.0) 4.0	2.4	0A16
P9.23	j	1.00) 1.10	1.00	0A17
P9.24	j	0) 100s	15s	0A18
P9.25	j	2) 100ms	10ms	0A19

PA:

	基			MODBUS
PA.00		0U 1 1U 2	0	OB00
PA.01	1 7	2) 56	4	OB01
PA.02	1	0.4) 999.9kW	y ?	OB02
PA.03	1	0) 24000r/mi n		OB03
PA.04	1	0.1) 999.9A		OB04
PA.05	1 10	0.1) 999.9A		OB05
PA.06	1 x 4 R1	0.001) 65.00t		OB06
PA.07	1 x 5 L1	0.1) 2000mH		OB07
PA.08	1 x 4 R2	0.001) 65.00t		OB08
PA.09	1 + 1 Lm	0.1) 2000mH		OB09
PA.10	1 J , F 1	0.0%) 100.0%		OB0A
PA.11	1 J , F 2	0.0%) 100.0%		OB0B
PA.12	1 J , F 3	0.0%) 100.0%		OB0C
PA.13	1 J , F 4	0.0%) 100.0%		OB0D
PA.14	1 J , F 5	0.0%) 100.0%		OB0E
PA.15	2 7	2) 56		4	OB0F
PA.16	2	0.4) 999.9kW	y ?	OB10
PA.17	2	0) 24000r/mi n		OB11
PA.18	2	0.1) 999.9A		OB12
PA.19	2 10	0.1) 999.9A		OB13
PA.20	2 x 4 R1	0.001) 65.00t		OB14
PA.21	2 x 5 L1	0.1) 2000mH		OB15
PA.22	2 x 4 R2	0.001) 65.00t		OB16
PA.23	2 + 1 Lm	0.1) 2000mH		OB17
PA.24	2 J , F 1	0.0%) 100.0%		OB18
PA.25	2 J , F 2	0.0%) 100.0%		OB19
PA.26	2 J , F 3	0.0%) 100.0%		OB1A
PA.27	2 J , F 4	0.0%) 100.0%		OB1B
PA.28	2 J , F 5	0.0%) 100.0%	OB1C	
PA.29	S2R4GB F S2R75GB j	0UN 1U p 2U	0	OB1D
PA.30	\]	-	-	* OB1E

1BETQ T q BT

PCU` /



	基			MODBUS
		3U# \$ 4U \$		
Pd. 05	x, 9 X	20) 110%	100%	0E05
Pd. 06	i R)	20.0) 200.0%	160.0%	0E06
Pd. 07	i R 2	0.0) 60.0s	60.0s	0E07
Pd. 08		0UN 1UP% N 2UP% ! 3U 2-	1	0E08
Pd. 09	)	G ? U30) 180% P ? U60) 140%	GU160% PU120%	0E09
Pd. 10	@	0Unp 4245 1U! "		

MODBUS

OF00

OF01

OF02

OF03

OF04

OF05

PFU

\]

	基				MODBUS
PF.00	?	0UN? { | U?	0		1000
PF.01	o	0U j ! " o 1U\$ \$ P0.02 Fk / { | np o 2U\$ / j np o	0		1001
PF.02		0UN 1U \$ ' 2U H \$ X(' \? \ \$/) 3U H \$ X(' \? \$/)	0		1002
PF.03	@A	0UN 1U T 2U . 3U B T 4U@=@A ^ _	0		1003
PF.04	G/P	0UG? (?) 1UP? (& C} ?)	0		1004
PF.05	j	j	-	*	1005
PF.06	j	-	-	*	1006
PF.07	j	-	-	*	1007
PF.08	j	-	-	*	1008
PF.09	L	0) 9999		*	1009
PF.10	^k_ L	0.00) 99.99		*	100A
PF.11	O_ F bL	0.000) 9.999		*	100B
PF.12	^k	0) 9999		*	100C

5.1 口多 P0

P0.00 2' /	\$ OU0 1D0E
------------	-------------

0UO• 2 1U 2
 P0.00 \$ 12 2 k T SFFD V D
 { G D t \ / D 0 j * \ /

P0.01	\$ OU0) 3D0E
-------	--------------

0UV/F 1U j
 2U 3UV/FbN
 V/F U 2| 8| N G N {
 w HR 67T
 UWN 2 S2R4GB F S2R75GB
 N V/FbN U I J = F @2i O

& BC*

L | > 1] M ` , ~ q ~ &' Mx ^ _ I &' M
 d &' 7 ~ &' M f ~ | > nM
 I v &' 7 r I L | > 5 M ! P8 " L | > ; < N
 # S % | > 1 &M ' (&') n | > (&' M* () + , &' () + q -
 5. / M &' ~ () + m O () + / + 1 + Mwxs 2 3 | > n . 4 5 ' N

P0.02 { \$	\$ OU0.00Hz) D0.00HzE
------------	-----------------------

k P0.03 P0.04=1 2 W ^ _ { \$ 2 | 4 \$
 X

& BC*

P0.02~ 6, 7 8 9 : ; ? < = > ? @ M ABCENTERG < M > DE F YM > ` G &
 Hqy I J N
 P0.03 7 1MK, (n P3.18ML P3.18 7 2] M 7 7) P0.02D \ M < ~ 6G
 &ND q 2] MG & q NDN

P0.03 \$ U 1	\$ OU0) 11D1E
--------------	---------------

0UNULL 1U ^ _ { \$ { 2Uwx All
 3Uwx AI2(S2R4GB S2R75GB j) 4U j 5U# \$
 6UA 7U j 8U z
 9Uwx UP/DOWN 10U b 2 PLC 11UPID

P0.04 \$ U 2	\$ OU0) 9D0E
--------------	--------------

0UNULL 1U ^ _ { \$ { 2Uwx All
 3Uwx AI2(S2R4GB S2R75GB j) 4U j 5U# \$

6UA 7U j 8U z
 9U U
 P0.03 \$ 1U ^ _ { \$ 2 | } T ^ _ { D \$ \$ \$
 P0.02 J : 2 | } T ^ _ P0.02 X
 wx AII AI2 " \ L wx AII AI2 2 0) 10V @ \ L 0) 20mA \
 L \ L } ? WX J / : z 2.4 WQ
 wx AII AI2 # \$ \ L / = : 3 1 P4
 A \$ t A k PC PLC Q \$
 P0.03 \$ 9 2 1 P3 UP/DOWN
 P0.04 \$ 9 2 \$ U = U 8q

P0.05	\$ O1	\$ OU0) 9D0E
P0.06	\$ O2	\$ OU0) 9D0E

0U \$ U 1 1U \$ U 2
 2UMIN \$ U 1 \$ U 2 3UMAX \$ U 1 \$ U 2
 4U \$ U 1 > \$ U 2 5U \$ U 1 \$ U 2
 6U \$ U 1 \$ U 2 7U \$ U 1 \$ U 2
 8U | \$ U 1 \$ U 2 | 9U \$ U 2 > \$ U 1
 \$ U 1 U m P0.03 \$ U 1 X
 \$ U 2 U m P0.04 \$ U 2 X
 Q \$ U 1 F \$ U 2 J O U
 4 FCp wx 1 P3.01) P3.05 k wx + P0.06 \$ O 2 2x
 \$ 4 FC wx 4 k wx y wx N + P0.05 \$ O 1
 2x \$ { z \$ O g 5 9
 O 6 7 + \$ U 2 \$ X x m J = X

P0.07	&c \$	\$ OU0) 5D0E
-------	-------	--------------

0U ^ _ 1U wx 1(STOP ^ N)
 2U wx 2(STOP ^) 3UA 1(STOP ^ N)
 4UA 2(STOP ^) 5U wx 3(STOP JOG ^ N)
 1 ^ _ 2 ^ _ RUN STOP ^ F p wx 2
 4 wx RUN F/R FWD REV HLD 1 P3.01) P3.05 v Q
 wx F p
 A 2 t A k PC PLC Q p C
 2 STOP ^ 2 ^ _ STOP ^ p KL ~ O STOP ^ N 2
 I \$ p
 P0.07 \$ 5 2 ^ _ JOG ^ F STOP ^ N JOG ^ N 2 ^ _ JOG ^ I
 wx x x
 ^ _ F wx 2 ! MN

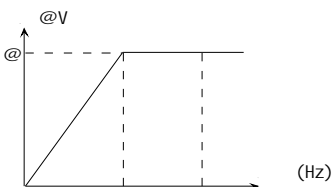
P0.08	^ _ \$	\$ OU0 1D0E
-------	--------	-------------

0U 1UC
 JOGp P2.51=1 z 2 P0.08 @\$
 OP +I D ENTER ^ n

+Q Uwx s ^ _ s N 2

P0.09	\$ OU U0.10) 650.0Hz j U0.1) 1000Hz
P0.10	") 650.0HzD50.00HzE \$ z
	" j UMAX[50.0Hz \$ z
	") 1000HzD50.0HzE

* F_{BASE}U\$ @ @U_N2 / D •
 \$ X * 67T V/F Q
 O \$ y 2(T 45 V/F QO f
 5-0-1 @: /
 F \$ F_{MAX}H ! " \$ X X + K



5-0-1

P0.11	U \$ OU0) 5D0E
0U { \$	1Uwx All
2Uwx AI2(S2R4GB S2R75GB j)	3U j
4U# \$	5U
0\$ 2	

\$ 02 # \$X V 1F = \$ WV 1]
 = \$ (P0.17 30) (0.01Hz 1rpm)
 \$ = \$ 2 P0.172E 0.01Hz \$ 2 T P0.172E (6 (5
 S))rpm { PID T +P0.172E 1rpm
 T O \$ P0.17=100 2 ^_ 1] \$ WO %
 / 30.00Hz +O %/ 900rpm \$ P0.17=10 2+ 3.00Hz 90rpm { PID T \$
 P0.17=10 2 ^_ 1] WO %/ 300rpm

P0.18 P 2 1	\$ OU0.1) 3600sD6.0s/20.0sE
P0.19 % 2 1	\$ OU0.1) 3600sD6.0s/20.0sE

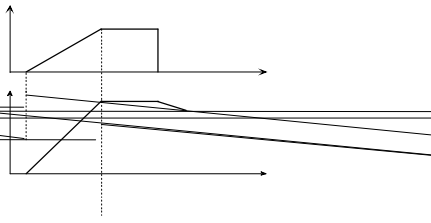
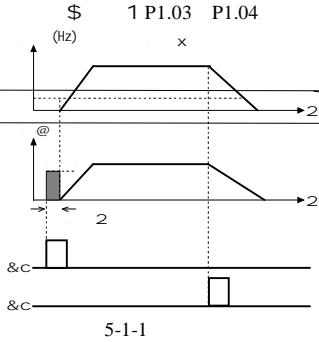
P 2 U Bi . Wk 2 % 2 U Q % v p2 2
 4 P% 2 { G1 P2.28) P2.33 aL /j wx z
 P% 2 3 b 2 z P% 2
 P% 2 On2E D P2.35 P% 2 t \$ 2 T/ q 10

5.2 P1

P1.00	\$ OU0) 2D0E
-------	--------------

0UB 1U (J) x B
 2U 1 3U 2

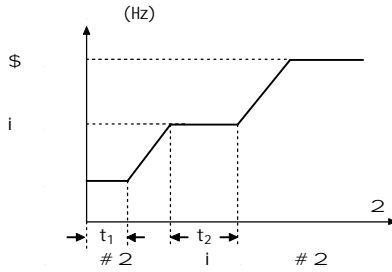
B U B U =
 P 2 U RG v RGK = x
 (J) x B U P% 2 k \$ = O
 PP8z 2) VN\$ 5-1-2 / O
 x } C 5-1-1 / U & | } U



P1.01	\$	OU0.10) 60.00HzD0.50HzE
P1.02	\$	OU0.0) 10.0sD0.0sE

HH

J



5-1-4

& BC*

Z? bI) 1 Z?) A/ 7) Z? bI Nc)] d 0] MZ? bI) 4@N

P1.07 P%	\$ OU0) 3D0E
----------	--------------

0U

1US

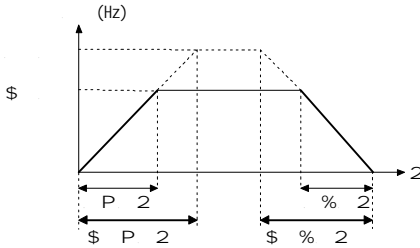
2U j

3U j

U P% H 8W

z X YO Y%

5-1-5 /



5-1-5

S H P F2_2

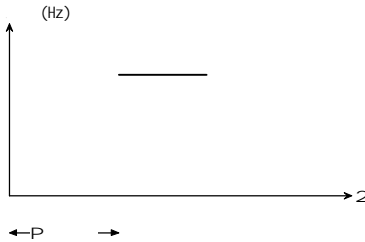
H% C Z

(%/ \$

2 Y%

2 | 2P

2K =



S 2_z 2 5-1-6 [/ ^ X Y%k 0

& BC*

Se \: f O1 MS g hi . /~j kMl &mAhn= N



& BC:

%(n gWk' op<Z, M ', Bqk' rj Mqn, '] ~f O>?N
Rst Ok' ru~v Mk: wx??>?4@ , Rx??>?(n~' - N

P1.16	#	\$	OU0.00Hz)	D0.00HzE
P1.17	# 2	\$	OU0) 3600.0sD0.0sE	

UW T STOP ^ { * [k T T - k #
 x - 0
 \$ # 2 02 # N \$ \$ # 2 #
 N

P1.18	\$	OU OU0) 3D3E
-------	----	--------------

0U 1U
 2U J 3U FJ

& BC*

y . /z q { / | * yf O} d} R~• ru~v Mm qg>? & |) ` , >?
 | y / 2??zLMd* rt Ok' ~v M s% I { 1 3d , %~n >?
 4@V>? & N
 15kWV &' - FI n >?4@N

P1.19	\$	OU30.0) 100.0%D100.0%E
-------	----	------------------------

\$ Xc xc y 4. Wtc k \$ 2d 4
 4XF O F89 4 ,) 9
 @x F @x Pd.11 : 380V ? @ @
 x e52V(WOn x 700V) 220V ? e23V(WOn x 350V) o 1 Pd.11

P1.20	\$	OU0) 2D0E
-------	----	-----------

0U Uu1 1U 2 , Uu Uu1
 2U , Uu

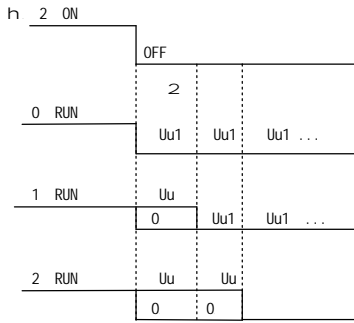
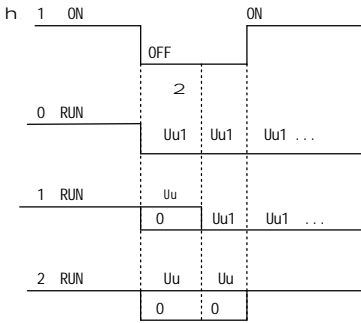
P1.21	2	\$	OU0.5) 10.0sDy ? E
-------	---	----	--------------------

P1.22	,	\$	OU0) 1D0E
-------	---	----	-----------

0U 1U%

P1.23	% 2%	\$	OU0.10Hz/s) /sD10.00Hz/sE
-------	------	----	---------------------------

2 @ +l , Uu 2 D 5-1-8 / U
 2 @ Uu Uu1 5-1-8 / } E Uu 2 Xf # \$ 0 H
 + Uu g } E Uu1 2 + 9[- @v 300V T + 3
 H Uu1
 + \$ P 2 HK \$ 12 , z P1.23 % % % 2h H

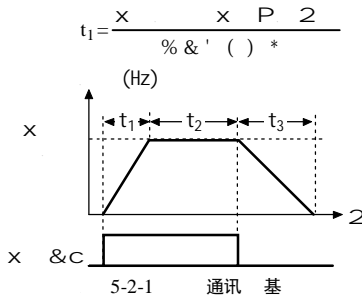


5-1-8

5.3 通讯 P2

P2.00 x	\$ OU0.10Hz) D5.00HzE
P2.01 x P 2	\$ OU0.1) 3600sD6.0/20.0sE
P2.02 x % 2	\$ OU0.0) 3600sD6.0/20.0sE

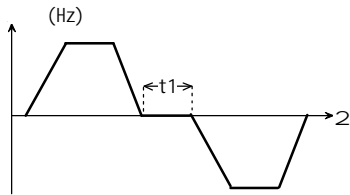
P2.00) P2.02 4x 2 J :
 5-2-1 / t₁ t₃ x P F% 2 t₂ x 2 P2.00 x J
 Q P2.01 F P2.02 \$ x P% 2 0k 2
 x P 2 t₁ zT z x % 2 t₃ 3
 Q P2.02 \$ X U\$ P2.02 \$ 0X2 0U% P2.02 \$ 02
 + GQ



& BC*

1p ? B j ? 1 0 j ? M ? : f O] d 4H 7 N
 2p ? f O] d 0 k M ? Mk' K > ? t u R @ k'] MB f O] d 4 f
 O
 3p } A | > t u m ? | > N

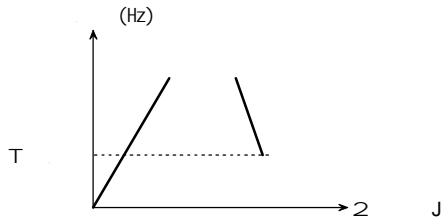
P2.03 C 9 2	\$ OU0.0) 3600sD0.0sE
i 2 Q i k C	QC i k i
5-2-2 / t ₁	



5-2-2 ! 有

P2.04T	\$ O U 0) 3 D 0 E
--------	--------------------

0U T 1U0
 2U 3U j
 0U T 2 x \$ / T + T J H\$
 5-2-3 /



Uy ?

U1.0kHz) P2.07D1.0kHzE

X 45 36

2 = m •

[8 t -

U0.00Hz) D0.00HzE

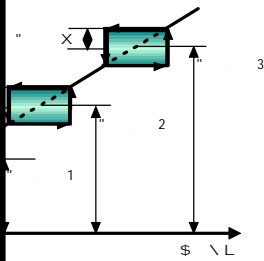
U0.00Hz) D0.00HzE

U0.00Hz) D0.00HzE

U0.00) 15.00HzD0.00HzE

x \$ I J x "

5-2-5 / U



2-5 \$%

O q r s q + O t

U0.00Hz) D5.00HzE

U0.00Hz) D8.00HzE

U0.00Hz) D10.00HzE

U0.00Hz) D15.00HzE

U0.00Hz) D18.00HzE

U0.00Hz) D20.00HzE

\$ OU0.00Hz) D.00Hz E

\$ OU0.00Hz) D28.00HzE

\$ OU0.00Hz) D30.00HzE

\$ OU0.00Hz) D35.00HzE

\$ OU0.00Hz) D38.00HzE

\$ OU0.00Hz) D40.00HzE

\$ OU0.00Hz) D45.00HzE

P2.25 z

\$ OU0.00Hz) D.00Hz E

P2.28 P 2 2	\$ OU0.1) 3600sD6.0/20.0sE
P2.29 % 2 2	\$ OU0.1) 3600sD6.0/20.0sE
P2.30 P 2 3	\$ OU0.1) 3600sD6.0/20.0sE
P2.31 % 2 3	\$ OU0.1) 3600sD6.0/20.0sE
P2.32 P 2 4	\$ OU0.1) 3600sD6.0/20.0sE
P2.33 % 2 4	\$ OU0.1) 3600sD6.0/20.0sE
P2.34) * % 2	\$ OU0.1) 3600sD3.0/10.0sE

b = P% 2 2 3 4 4 P% 2 1QP0.18 P0.19 4 P % 2
Q/j wx P3.01) P3.05 EN + P% 2 1 \$wx * {)
* 672) * % 2 = b 2 Fx P% 2 e/j wx
Q G\$
\$) * wx * 2 + P2.34) * % 2 e P1.10
P% 2 On2E D P2.35 P% 2 t \$ 2 T/ q 10

P2.35 P% 2	\$ OU0) 2D0E
------------	--------------

0U1 1U10
2U0.1
P% 2 = P% 2 P% 2

P2.36 YZ &[\$ OU0 1D0E
-------------	-------------

0UG p 1U &[8
G p U &[8 3 bc 50(&[s +
30 bc G
&[8 U &[8

P2.37	\$ OU0 1D0E
-------	-------------

0U b 1UCb
F 8T J b
k

P2.38 C	\$ OU0 1D0E
---------	-------------

0U! " C 1UnpC
\$\$ 1UnpC
^_ \$ C 2 0
wx RJOG C x
&c wx REVC wx 2

P2.44 PGV # \$	\$ OU1) 9999D1000E
----------------	--------------------

P2.44UaL # \$ 3 V # \$ \$

P2.47 PG, R 2 (j)	\$ OU0.0) 10.0D2.0sE
---------------------	----------------------

P2.48 PG, 2 (j)	\$ OU0) 3D1E
-------------------	--------------

0U% ~ 1UGQ ~
2U) * ~ 3U9[
3 2 P2.47 4 3 \ L, R 2 3 , 2 P2.47\$
2 + P2.48 4

P2.49 PG% 1	\$ OUI) 1000D1E
P2.50	

t \$ 3 (PG) H 2 \$ k PG % 1 = 2



P3.03 X3wx	\$ OU0) 79D37E
P3.04 X4wx	\$ OU0) 79,82D0E
P3.05 X5wx	\$ OU0) 81D0E
P3.06 X6wx	\$ OU0) 79D0E

wx X1) X6H wx \$ P3.01) P3.06 X 4{ ! " H 4 H
 4 wx { 8S 2 k \$ X 1 m5-3-1

5-3-1 围

&'	项	&'	项
0	NULLN 4	1	FWD
2	REV C	3	RUN
4	F/R	5	HLD G #
6	RST HE	7	FC \$ O
8	FJOG x	9	RJOG C x
10	UP . W	11	DOWN T -
12	UP/DOWN 0	13	FRE GQ ~
14	*) * % 2	15	P
16	P% np	17	np
18	S1 z 1	19	S2 z 2
20	S3 z 3	21	S4 z 4
22	S5 z 5	23	S6 z 6
24	S7 z 7	25	&c9 v wx 2
26	SS1 z	27	SS2 z
28	SS3 z	29	SS4 z
30	T1P% 2 1	31	T2P% 2 2
32	T3P% 2 3	33	T4P% 2 4
34	TT1P% 2	35	TT2P% 2
36	* *	37	EH0/j *
38	EH1/j *	39	EI0/j , *
40	EII/j , *	41	| } P
42	PLC b	43	PLC b
44	PLC | } HE	45	j
46	j	47	PID
48	/f 9	49	2
50	T e} \ L	51	T i HE
52	j	53	22E
54) 73	j	74	wx
75 76	j	77	PID 0
78	PID b2 HE	79	&c9 v ^ _
80	PULSE# \$	81	2JG # \$ +JG AJ # \$
82	+JG BJ # \$		

=m5-3-1

TU

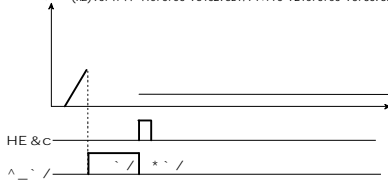
0-N 4U 4wx N wx RGkwx | } 3 gh. Wkwx mn |
} = wx 4 pKL ~

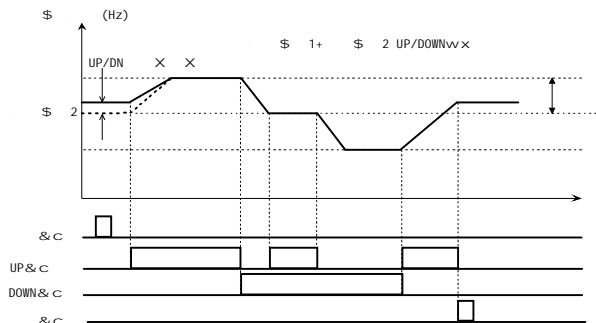
1) 5U 1 P3.15 \$

6-RST HE U | } T ^_STOP/RESET^ | } 3 4 RST wx |
} | } T kwx b RSTZ c { . Wv HE (

T N - -N

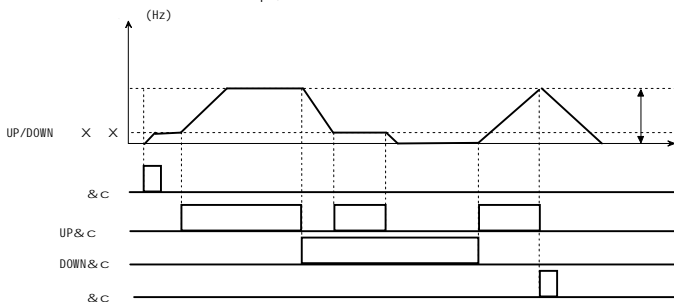
(Hz)96.4.44 415.6.56 1S1621SBT/F1+.76 1215.6.56 18.861SBT/F1+8.8121215.6.56 1878.72m5.6.56 1878424 m182.64 40.042 1SBT/F1+





5-3-3 UP/DOWN) 通讯

wx UP/DOWN I P0.03=9 | } 2



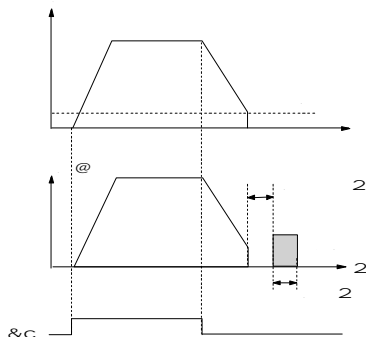
5-3-4 UP/DOWN *) 通讯

13-FRE GQ ~U 4 k wx 2 3WXf PWM | } l FRE
 wq2 ZcO l 4 k Nj P0.07 hX k E e

P1.10

14- *) * % 2 36- * * U) * % 2 % e P1.10

15- P U kwx = C P • E
 2 P1.11) P1.14 4 2 P1.15 4 2 k wx # [2
 m X 5-3-5 /

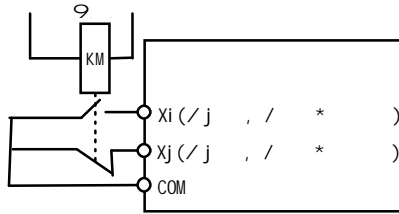


5-3-5

16-P% npZcU # egh/D\L 1. &c\$/ 8#\$
17- npUkwx 2 +GQ - |}+np
O
18) 24 26) 29U z
z 2 / p ^_ wxZc A

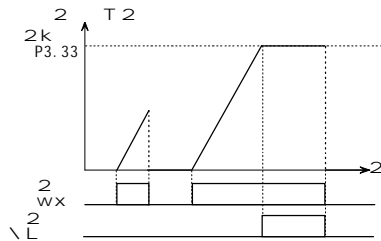
)p f 78.

EIO/j , * EII/j , * U k/j , \L W0 8 /
j , \L \$ x H 2EH0/j * EH1/j * J: 5-3-6



5-3-6 , /, -

41- |} P U kwx = |} C P
42) 44Uwx PLC
PLC U b 2 t \$ 1 PLC PID }z \$ U22 PLC N
PLC U b 2 wx 2 b 2 0 Zc` B, x 9
[wx : STOP ^ b T i T 2
b T8 +k N54
PLC |} HEU PLC |} T k wx 2t \$PLC 2'y
z 2 \]
47-PID UPID t \$ 1 PID \$ U22 PID N
48- /f 9
T QP8.10 \$ Fkwx |} Z U\$P8.10
\$ 0 2 \$wx\$ 48 2 + G 9
49 53U 2
49Lwx 2 22 T2 N 2 0
\$ 2k P3.33 2 pT2 5-3-7 /
53L wx 2 P3.33 2k 2E9 bc N +



5-3-7 有.

50-T e}\L U T T # \$ # \$ U200Hz g 2 ;' y \$
T X
51-T i HEU = T i T e}\L QO
74- wx Uk wx 2 36L wx
77-PID 0U PID 2 \$wx\$ 2 \$ " PID 2 \$
wx\$ 2 i
78-PID b2 HEUPID T 8W PI \$wx\$ 22tI Z b
0
80-PULSE# \$ Uk wx # \$ \L \L # \$ \$:
1 P4

81U2JG # \$ U PGz 2JG # \$ wx k Z wx # \$ } E 3
 PG AJ # \$ 2J # \$ C
 82U+JG BJ # \$ PGz +JG BJ # \$ k Z wx # \$ 3 PG B
 J # \$ F81L wx QO +J # \$ C

& BC*

FI PG) c L- & QS - ~ &ST M&8 12) 30VDC g \ 1 m C2.4.2
 | > x t u ~ g N

e • 2 * = \ L { e • p K L \ L = C 1 .
 e • 2 * y U / 2 y { \$
 X a L " 67 \$ \$ X

0U{ 1 1U{ 2
 2U 1-G # P X1) X6 g58wx
 3U 2-G # P X1) X6 g58wx
 @\$ &c P0.07 wx 2 { 1 2 1 2 O 54
 { 1 FWD REVU Z / FWD REV C 9 wx
 FWD REV C \$ FWD 2 \$ REV

wx UP/DOWN 4 UP/DOWNwx D \$ UP/DOWN X X 4
 UP/DOWNwx D \$ O

P3.18 { UP/DOWN ;	\$ OU0) 2D2E
-------------------	--------------

0U k STOP UP/DOWN XHE 0
 1U k STOP UP/DOWN X HE 0 g
 2U k STOP UP/DOWN X HE 0 g k P0.03 \$ 1 2 P0.02
 g
 UP/DOWN 1 5-3-3 5-3-4 /
 P0.03\$ 1^_ \$ 2UP3.18\$ 22 { \$ P0.02 g H22
 g 1 P0.02

P3.19 D0wx 4	\$ OU0) 37D0E
--------------	---------------

P3.24 9 1(TA/TB/TC)	\$ OU0) 37D19E
---------------------	----------------

P3.25 9 2(RA/RC	\$ OU0) 37D0E
-----------------	---------------

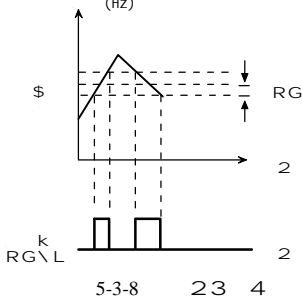
9 2(RA/RC @639 X
 v2W : { wx D0 9 IE 3 wx aL
 Bj b F \L 1m5-3-4
 5-3-4 围

/	项	O1
0	NULL	N
1	RUN	| } wx
2	FAR k	z P3.26 k R
3	FDT RG	1 P3.27 P3.28 RGX RG J:
4	FDTH k	\$ k " k 2 wx
5	FDTL T k	\$ T k T " k 2 wx
6	j	j
7	i	0 y | } 2 wx
8	PLC z KZ/	PLC \$ z K wx 2S#\$\L 500ms
9	PLC c KZ/	PLC K8S c wx 2S#\$\L 500ms
10	• K RDY	2 | } 2 wx N N np N , NHE NGO ~ NUu,
11	GO -	GO -2wx 2S#\$\L 500ms
12	G	G HE 2wx (2S#\$\L 500ms)
13	2k	1p 2 p
14	T k	T k \$ wx
15	\$ 2 k	\$ =T 2 PE.09 k \$ 2 P3.34 2 wx
16	k RG	k \$ X2 wx / \$ X80%2 wx N
17	CL	k) Pd.09 2 wx /) 90% 2 wx N
18	@	k @k @x Pd.11 2 wx \L / @x 95%2 wx N
19		wx
20	/j EXT	/j " # 2 wx
21	Uu1 @ p	\$ k @ @\$) wx
22	j	j
23	OLP2 i	i X wx
24	" \L 1) *	" \L [500ms \L) \L /X \L X wx
25	j	j
26	j	j
27	j	j
28	j	j

/	项	O1
29		C 2wx
30	i	0 2wx
31	j	j
32	j	j
33		\$ 9 2) \ L 3 } E
34	j	j
35	R \ L ULP	\$ 2 R \ L
36	z	g 5 8 S z wx 18) 24 26) 29 wx
37	\ L	74 L wx 2 wx

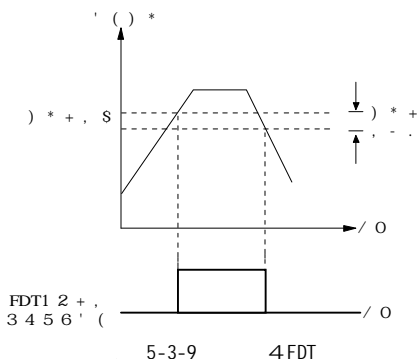
P3.26	k R	\$ OU0.00) 10.00HzD2.50HzE
-------	-----	----------------------------

k \$ X 2 { RG O \$ X 0) 10.00Hz \$
\$ R 2 J wx 5-3-8 /
(Hz)



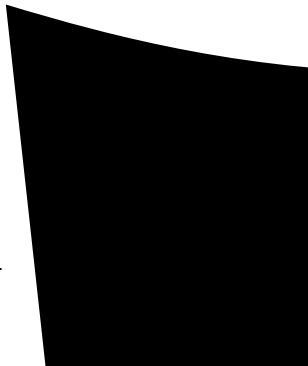
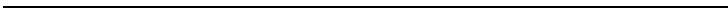
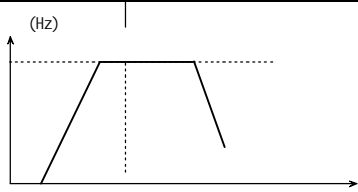
P3.27 FDT)	\$ OU0.00) D50.00HzE
P3.28 FDT	\$ OU0.00) 10.00HzD1.00HzE

\$ I 8 Z RGX 2 J wx SZ
J FDT) T- x / FDT) J wx t 9 [Z / \
L k T - k FDT) I 8 W \$ \$ } RGX FDT X
5-3-9 /



P3.29	k wx " 2	\$ OU0.0) 100.0sD0.0sE
P3.30 T	k wx " 2	\$ OU0.0) 100.0sD0.0sE

{ < P3.19) P3.25\$ D0 9 1 FDTH k FDTL T k
2 * | 8 9 2 p k \ L J \$ 5-3-10 /

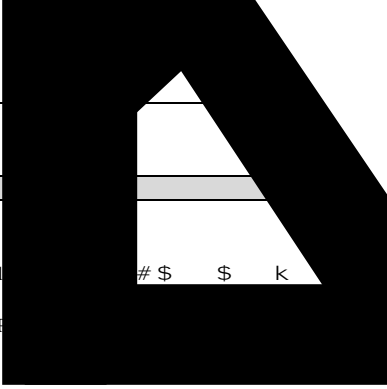


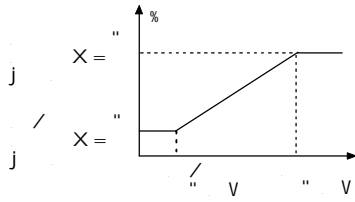
5.5

78

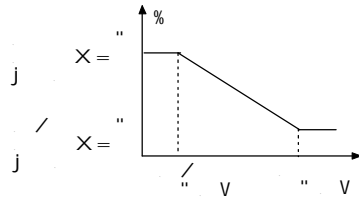
P4

P4.00	"					\$	OU0)	3D0E	
0UN							1UAI		
2UAI2	S2R4GB	S2R75GB	j			3U#	\$		
	\$ P4.00	\$ 0 2	P4.01)	P4.05	\$	4 AI1		P4.11	
2W	\$ i 3	+	KL						
	P4.00	\$	0 W		2	P4.01)	P4.15	\$ E	
	k	.	/ 1W	j		E	0		
	\$ P4.00	\$	1	2(S2R4GB	S2R75GB	j)	2		



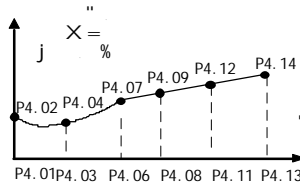


5-4-1



2U\$ P4.00 \$ 1 2(S2R4GB S2R75GB j) 3 2 P4.01) P4.04 P4.06) P4.09 P4.11) P4.14
 1 z \$ J X G• 4 \$ (Sx

5-4-2 / P4.01 P4.03 P4.06 P4.08 P4.11 P4.13 X bOP



5-4-2

3Ue• 2 * = \ L { e• pKL \ L = C 1.
 e• 2 * y U / 2 y { \$ X
 aL " 67 \$ \$ X

P4.21	AO1	4	\$	OU0)	14D0E
P4.22	AO2	4	\$	OU0)	14D0E
P4.24	DO	4	\$	OU0)	14D0E

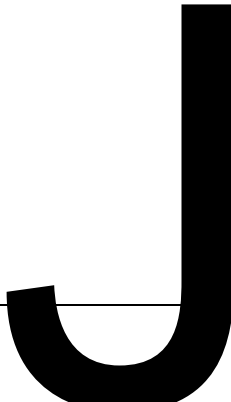
0UNULL 1U (0-2I_N)
 2U @() @) 3UPID () 10V
 4UPID C () 10V 5U • \ L 5V
 6U () 2 7U () 2
 8Uk @() 1000V) 9UAI1 () 10V/0) 20mA
 10UAI2 () 10V/0) 20mA (S2R4GB S2R75GB
 j) 11U j
 12U (0)) 13U (0))
 14U\$ () 2
 \$ 1W " \ L \ L " @ DC 10V o Q
 aL Z

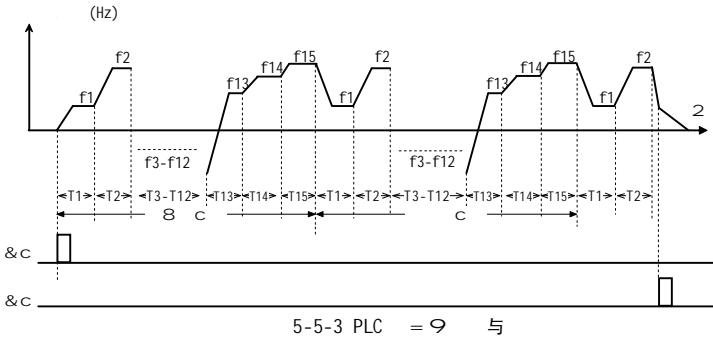
P4.25	AO1	0	\$	OU0	1D0E
0U0-10V			1U2-10V		
P4.28	AO1	0	\$	OU-10.00)	10.00D1.00E
P4.29	AO2	0	\$	OU-10.00)	10.00D1.00E

\ L F I m C! E ~ U x I m` / ~ U I m` /
 4A01O
 2 89 L• b C O• • \ L \$ P4.21 X 5 Rk DC5V W
 50% D AO*O • AO1 P4.28 b \ L 5V
 2 P4.28 X 3WE n ^
 x / OI m m ~ U + I m

P4.31	AO1	\$	OU-100%)	100%D0.0%E
P4.32	AO2	\$	OU-100%)	100%D0.0%E

bpm/ O kpm/ ypm/ O• xpm/ +
 y=kx>10b AO1 100%= 10V O• Z 0) 10V= " 0) X 8W D
 " i ! F X U 3 G 4 gh Z U " o
 " # 02 8V 2 3V +O \$ -0.50p \$ 80%p

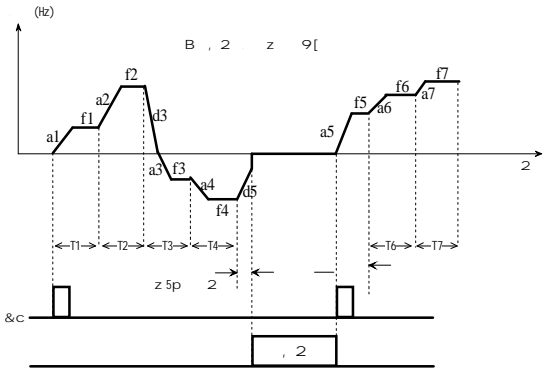


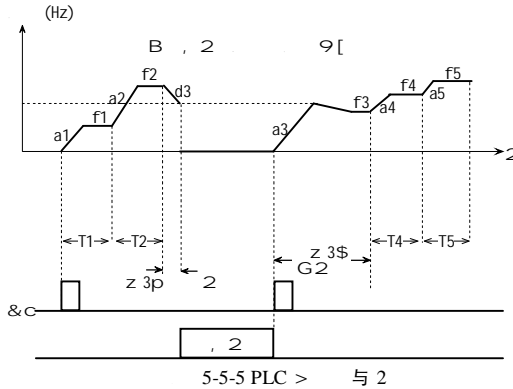


```

P5.01 PLC , x
$ OU0) 2D0E
0UB 8z
IUB , 2 z 9[
2UB , 2 z 9[
B 8z
Q &c g x 2B 8z
B , 2 z 9[
Q &c G $ zp 2 x G k z
k z 4 9[ $G2 5-5-4 /

```





P5.02	g	2PLC| }	;	\$	OU0	1D0E
0U	;			IU	;	
	;	Ug 2 'y PLC | }		G	\$	b ' x B 8z
	;	Ug 2 'y PLC | }		g	2	z p 2 z P5.01 4
PLC	,	x				

P5.03	z	2	2E	\$	OU0	1D0E
0U				IUb		
	k	2E1 = PLC	z	2	4	PLC : P% 2 2E:

P5.04	b	2T1	\$	OU0.1)	3600D10.0E
P5.05	b	2T2	\$	OU0.0)	3600D10.0E
P5.06	b	2T3	\$	OU0.0)	3600D10.0E
P5.07	b	2T4	\$	OU0.0)	3600D10.0E
P5.08	b	2T5	\$	OU0.0)	3600D10.0E
P5.09	b	2T6	\$	OU0.0)	3600D10.0E
P5.10	b	2T7	\$	OU0.0)	3600D10.0E
P5.11	b	2T8	\$	OU0.0)	3600D10.0E
P5.12	b	2T9	\$	OU0.0)	3600D10.0E
P5.13	b	2T10	\$	OU0.0)	3600D10.0E
P5.14	b	2T11	\$	OU0.0)	3600D10.0E
P5.15	b	2T12	\$	OU0.0)	3600D10.0E
P5.16	b	2T13	\$	OU0.0)	3600D10.0E
P5.17	b	2T14	\$	OU0.0)	3600D10.0E
P5.18	b	2T15	\$	OU0.0)	3600D10.0E

b [3 z 2 z 2 z 4 2 0.0) 3600 P5.03 \$ b 2E +
\$ 2 \$ 0.2 z " T 8z

P5.19	T1z	b	\$	\$	OU1 F) 4 rD1FE
P5.20	T2z	b	\$	\$	OU1 F) 4 rD1FE
P5.21	T3z	b	\$	\$	OU1 F) 4 rD1FE
P5.22	T4z	b	\$	\$	OU1 F) 4 rD1FE
P5.23	T5z	b	\$	\$	OU1 F) 4 rD1FE
P5.24	T6z	b	\$	\$	OU1 F) 4 rD1FE
P5.25	T7z	b	\$	\$	OU1 F) 4 rD1FE
P5.26	T8z	b	\$	\$	OU1 F) 4 rD1FE
P5.27	T9z	b	\$	\$	OU1 F) 4 rD1FE

P5.28 T10z	b	\$	\$	OU1 F) 4 rD1FE
P5.29 T11z	b	\$	\$	OU1 F) 4 rD1FE
P5.30 T12z	b	\$	\$	OU1 F) 4 rD1FE
P5.31 T13z	b	\$	\$	OU1 F) 4 rD1FE
P5.32 T14z	b	\$	\$	OU1 F) 4 rD1FE
P5.33 T15z	b	\$	\$	OU1 F) 4 rD1FE

* z P% 2 F v 8 O { B 4 1 m5-5-1

5-5-1 PLC ? 通讯

O o	P% 2		
1F	P% 2 1	P0.18 P0.19	FU
1r			rUC
2F	P% 2 2	P2.28 P2.29	FU
2r			rUC
3F	P% 2 3	P2.30 P2.31	FU
3r			rUC
4F	P% 2 4	P2.32 P2.33	FU
4r			rUC

P5.34	b	'	i	\$	OU0 1D0E
P5.35	b	z	'	\$	OU0) 15D0E
P5.36	b	z	2	\$	OU0.0) 3600D0.0E

b z ' P5.35' \$ PLC z
 b z 2 P5.36' \$ PLC z 2
 P5.34 12 b z ' P5.35 b z 2 P5.36 0 H 0

& BC*

t u m y PLC k A RA | > M ! P3" t u (n 7 N

5.8 PID P7

P7.00 U1

P7.03 PIDC U1	\$ OU0) 5D0E
P7.04 PIDC U2	\$ OU0) 5D0E

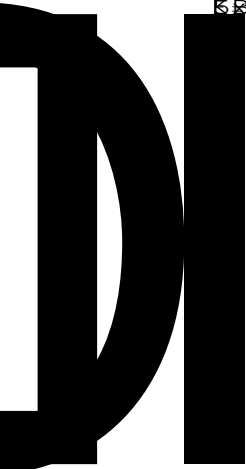
0U PG 2J G P7.03 / j P7.04
 1UAI1wx 2U AI2wx (S2R4GB S2R75GB j)
 3U j 4U# \$
 5UA

P7.05 C O	\$ OU0) 5D0E
-----------	--------------

0UPIDC U1 1UPIDC U2
 2UMIN PIDC U1 PIDC U2 3UMAX PIDC U1 PIDC U2
 4UPIDC U1>PIDC U2 5UPIDC U1-PIDC U2

PIDC F C 02 PID { " 2
 = (=)%UK { C 2

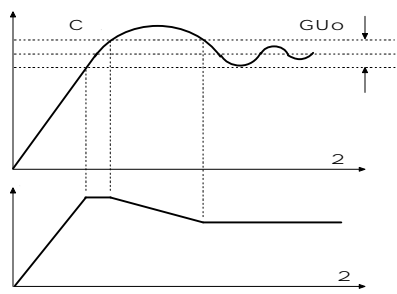
5BSC Z I 48/F16.484 O T- .11.76 1



P7.22 ~Uo	\$ OU0.0) 999.9D0.0E
-----------	----------------------

\$C F\$ UX PID ~Uo \$ X2 PID 8# \$
 5-7-1 /

\$ \$! () C F ~Uo - C yH
 C 89 (.
 " PID2 ~Uo \$ P7.22 j =X dQ PID2-Uo \$ P7.22
 5-7-1 /U



5-7-1 @A' #

P7.23 PID	\$ OU0 1D0E
-----------	-------------

0U 1UC
 U\$ PID OP W OP j OP2 R C
 C U\$ PID OP W OP j %/2 Y C

P7.24 b	\$ OU0 1D0E
---------	-------------

0U k. T 2 p b 1U k. T 2 9[b

& BC*
 y r t O k ~ M 0M) F & [] M k M N

P7.25	\$ OU0 1D0E
-------	-------------

0U 1U

& BC*
 2OPID] 4 (nN

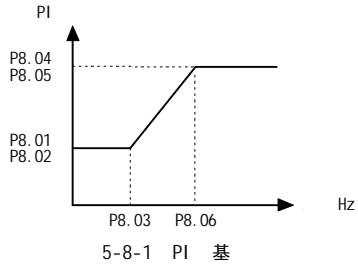
P7.26 " 2	\$ OU0) 999sD120sE
-----------	--------------------

P7.27 X	\$ OU0.00Hz) D20.00HzE
---------	------------------------

P7.28 X	\$ OU0.0) 100%D80%E
---------	---------------------

i 2 p C !!CE 67T x C
 Xp " 2
 x " 2 : X + C H s\$ p | }
 9 v | } @fC (T-v p X 2 C / 5-7-2 X\$
 O= H " PIDC b
 / x ^ _ @f\$ t PC PC.01-PC.20 @PC.16,PC.17\$ 1 { G\$ 0
 \ / | } @f\$ * + x ENTERp n W
 g n @f: v

B 9 H - J F B 9 H I J e z z / Y Y
> M J x ! N
z 8 Y F P 8 0
E D1 E 5 0
M I / I B 9 H - I J P 2 B N N P z 8 I i 8 Y
8 5 0 0 0
00303 2 E 0 0 0 0 0 0



\$ Z F b2 } . OP ZO
 %/ b2 E P } . ZO b2 /E C E()
 45 U x + X G. E U O ZO >
 C () v

P8.14 \$	\$ OU0.0%) 200.0%D102.4%E
----------	---------------------------

$$T k = Z c \quad k \quad * 45D$$

P8.15 P 2	\$ OU0.00) 120.0sD0.50sE
-----------	--------------------------

P8.16 % 2	\$ OU0.00) 120.0sD0.50sE
-----------	--------------------------

$$\begin{matrix} \$ & 2 & P\% & 2 & T & N \\ B0k & 2 & P & 2 & k & 0 & 2 & \% & 2 \end{matrix}$$

P8.17 " T U	\$ OU50.0%) 200.0%D117.0%E
-------------	----------------------------

$$= N \quad 2 \quad 2 = \quad \$ O$$

P8.18 " T U	\$ OU50.0%) 200.0%D117.0%E
-------------	----------------------------

$$= N \quad 2 \quad k \quad D \quad U \$ = 2 \quad + P k$$

C + % / k

P8.23 i W	\$ OU0.0) 50.0%D0.0%E
-----------	-----------------------

P8.24 i X	\$ OU0) 20%D5%E
-----------	-----------------

$$P8.23i \quad WH \quad i \quad 2 \quad i \quad 2 \quad \# 8 \quad f$$

i X\$ O= H0) 20%

P8.25 \$ U	\$ OU0) 5D0E
------------	--------------

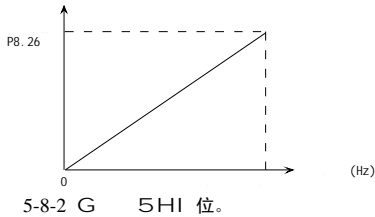
0U P8.11 TURK \$ X8T 1UAI
 2UAI2 (S2R4GB S2R75GB j) 3U j
 4U# \$ 5UA

P8.26 f O	\$ OU40.0%) 160.0%D100.0%E
-----------	----------------------------

P8.27 f yL	\$ OU0 1 2D0E
------------	---------------

0U 1U j
 2U j
 + C g cDc H k j b C
 g f J # ' RK
 P8.26\$ H 100.0% = \$ yL p2 f

$$\$: 5-8-2U$$

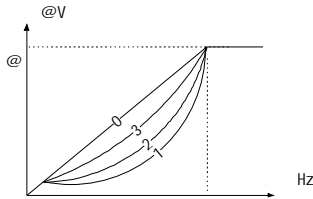


P8.28 i J 2	\$ OU0.05)
-------------	------------

5.10 V/F P9

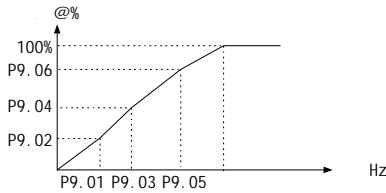
P9.00 V/F \$	\$ OU0) 4D0E
0U # 0	1U- 1 2.0
2U- 2 1.5	3U- 3 1.2
P9.01 V/F XF1	\$ OU0.0) P9.03D10.00HzE
P9.02 V/F @XV1	\$ OU0) 100.0%D20.0%E
P9.03 V/F XF2	\$ OUP9.01) P9.05D25.00HzE
P9.04 V/F @XV2	\$ OU0) 100.0%D50.0%E
P9.05 V/F XF3	\$ OUP9.03) P0.09D40.00HzE
P9.06 V/F @XV3	\$ OU0) 100.0%D80.0%E

k 4 V/F\$ z



5-9-1 J 5

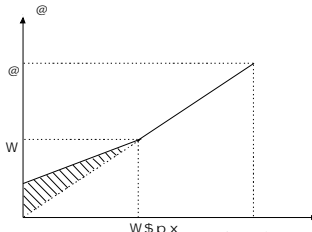
\$ P9.00 42 P9.01) P9.06G 4 V/F 5-9-2 / x % 4 V/F
Q 45 UV1<V2<V3 2 @\$ K v w/



5-9-2 KL V/F MNO与

P9.07 W	\$ OU0.0) 30.0%D75kw TU0.0% 93kw U0.1%E
---------	---

02 W = @ 8J W \$ 0.0% 2 J \$
5-9-3



5-9-3 P 5QR

& BC*

1pa I qLm23&' KN
2p ? &'] M , ` , ? 23B\Md &' v ` , v M V/Fe \ N

P9.08	W\$px	\$ OU0.00) 50.00HzD16.67 HzE
-------	-------	------------------------------

Uk

PA.01	17		\$	OU2)	56D4E		
PA.02	1		\$	OU0.4)	999.9kWDy	?	E
PA.03	1		\$	OU0)	24000r/minDy	?	E
PA.04	1		\$	OU0.1)	999.9ADy	?	E

PA. 01) PA. 04 \$ 1 > ' (z \$
J: X

s dQQ 8WI ! " / { s 8s O >

PA.05	1	10	\$	OU0.1)	999.9ADy	?	E
PA.06	1	x 4R1	\$	OU0.001)	65.00 Dy	?	E
PA.07	1	x 5 L1	\$	OU0.1)	2000mHDy	?	E
PA.08	1	x 4R2	\$	OU0.001)	65.00 Dy	?	E
PA.09	1+	1 Lm	\$	OU0.1)	2000mHDy	?	E
PA.10	1J,	F 1	\$	OU0.0%)	100.0%Dy	?	E
PA.11	1J,	F 2	\$	OU0.0%)	100.0%Dy	?	E
PA.12	1J,	F 3	\$	OU0.0%)	100.0%Dy	?	E
PA.13	1J,	F 4	\$	OU0.0%)	100.0%Dy	?	E
PA.14	1J,	F 5	\$	OU0.0%)	100.0%Dy	?	E

x z PA.29 x p Ok J PA. 05) PA. 09
J, F G 2 G \$ N \$

PA.15	27		\$	OU2)	56D4E		
PA.16	2		\$	OU0.4)	999.9kWDy	?	E
PA.17	2		\$	OU0)	24000r/minDy	?	E
PA.18	2		\$	OU0.1)	999.9ADy	?	E
PA.19	2	10	\$	OU0.1)	999.9ADy	?	E
PA.20	2	x 4R1	\$	OU0.001)	65.00 Dy	?	E
PA.21	2	x 5 L1	\$	OU0.1)	2000mHDy	?	E
PA.22	2	x 4R2	\$	OU0.001)	65.00 Dy	?	E
PA.23	2+	1 Lm	\$	OU0.1)	2000mHDy	?	E
PA.24	2J,	F 1	\$	OU0.0%)	100.0%Dy	?	E
PA.25	2J,	F 2	\$	OU0.0%)	100.0%Dy	?	E
PA.26	2J,	F 3	\$	OU0.0%)	100.0%Dy	?	E
PA.27	2J,	F 4	\$	OU0.0%)	100.0%Dy	?	E
PA.28	2J,	F 5	\$	OU0.0%)	100.0%Dy	?	E

2 \$ z 1 \$ PA. 00 1 \$ E

PA.29	S2R4GBF S2R75GB j		\$	OU0)	2D0E		
-------	-------------------	--	----	------	------	--	--

0UN 1U p

2U

0UN

1U p F 2 J O \$ k RUN

t G mPA.06) PA.08/PA.20) PA.22 PA.05 PA.09/PA.19 PA.23 z O•

\$

2U > } 2 (TF 2

\$ k RUNWG

& BC*

1p 7 M ^ QR | &' ~ PA.01 PA.04PA.15 PA.18D

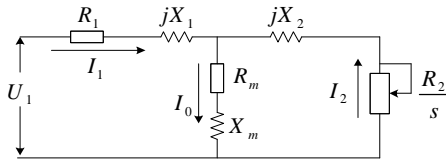
2p 82 7] ks &', . / M =. / 7N

3p 7 7&' k Mwxqn ' N

4p 7 D < PA.29 ? I 0N
 5p 7 M } C -At- MI 7q { (M } s C AtE N
 4U p 2 TU F + TU T { L 5 I₀
 L_m + h I U @ f

$$U I_0 = I \cdot \sqrt{1-h^2} + T U U \quad L_m = \frac{U}{2\sqrt{3}pf \cdot I_0} - L$$

B4 5-10-1 /



5-10-1 VW X事YZ

5-10-1 R₁ X₁ R₂ X₂ X_m I₀ b mU x 4 x 5 1 x 4 x 5 1 + 1

5.12 MODBUS) 仅 Pb

k MODBUS 35F 3 b PLC A MODBUS HQ
 8S PLC F 1-31 | K F \ L2K H 2K J =
 8 F 8 | \ L2K k } D Zc {

* FU URS-485 z Uq+8)
 2 U• B 1200 2400 4800 9600 19200 38400 Pb.00
 RTU L#• 8 E pE• 1 E
 ASCII L# 7 8 E pE 2 1 E N 2 2 E Pb.02
 4 /5 /N Pb.02
 35U z MODBUS RS-485 | U31 |
 } K/ LU } K/ LB Zc o o
 | } \$ N \$ On W o O

Pb.00 •	\$ OU0) 5D3E
---------	--------------

0U1200 bps 1U2400 bps 2U4800 bps
 3U9600 bps 4U19200 bps 5U38400 bps

Pb.01 -	\$ OU0) 31D1E
---------	---------------

\$ - F z 82 { | \$ - L H

Pb.02 L F	\$ OU0) 8D0E
-----------	--------------

0U1-8-1-E RTU 1U1-8-1-O RTU
 2U1-8-1-N RTU 3U1-7-1-E ASCII
 4U1-7-1-O ASCII 5U1-7-2-N ASCII
 6U1-8-1-E ASCII 7U1-8-1-O ASCII
 8U1-8-2-N ASCII

Pb.03 2RG2 \$ OU0) 100.0sD0.0sE

0U 2RG
0U 2RG V ' Pb.03 \$ X CWRG | } N * L. } W /j
EFO \$

& BC*

] Y d F ' Mq M

Pb.04 " 2 \$ OU0) 500msD5msE

k 4 L \$ " 2 O /

Pb.06 L Eeprom ; \$ OU0 1D0E

0U Eeprom 1U Eeprom

k \$ D 2 Hs ; Eeprom \$ 12 V D 1
! t ; Eeprom \$ 02 +@D X = ; Eeprom L O =
MODBUS6 - k K - 0x00FF t o K EEPROM J \$ ^ _ ENTER



Eeprom Eeprom
RAM Pb.06 0

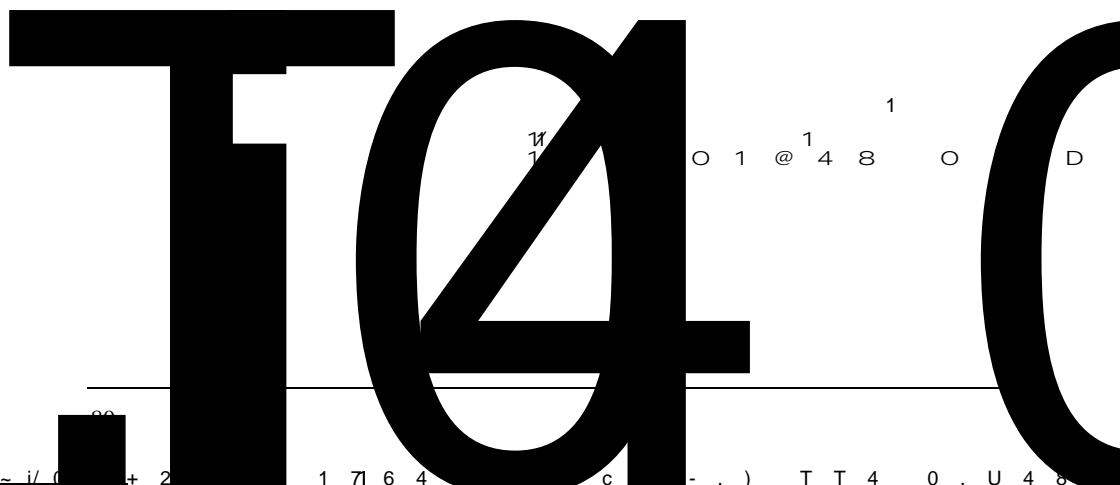
Pb.07 CCF6 \$ OU0 1D0E

0U 9[1U GQ
k \$ 2Hs` / \$ 12 } E W` / z 2
.\$ 02 ` / 9[

Pb.08 / \$ OU0 1D0E

0U * / 1UOZc /
k \$ 12 KOZc 0x06 0x10 Zc 7 K

1 1



1
1
O 1 @ 1 4 8 O D

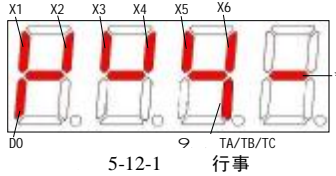
[B 0.01Hz k 0.1Hz k 1Hz O% 6 1 P0.17

PC.05	r/min	\$	OU0	1D1E
PC.06	\$ r/min	\$	OU0	1D0E

0U` / 1U` /
 PC.05 \$ 1 | }` / 2E r/min \$ 0 + PC44 Tf 706B

PC.19 wx | } N2E	\$ OU0 1D0E
------------------	-------------

0U ` / 1U ` /
 PC.19 \$ 1 + ` / wx | } \$ 0 + ` / k =
 wx | } \] wx X1) X6 + W6 7 wx D0 9 1 | } LED
 Z z] Dm w | } z m / J wx | } | }] + m / J wx
 N | } S* 8z 9: 5-12-1 / U



PC.21	\$ OU1) 20D1E
-------	---------------

PC.21 ` / \$ X 1) 20 b = PC.01) PC.20
 \$ \$ / / / 0 / 2 B\$ \$ X b XB/k 20 2 1
 S; v ` / 0 /
 ` / @ PC.01) PC.20 @ 2 \$ CALL ` /
 2 b s ` / 2 ` /

PC.22	\$ OU0.1) 999.9%D100.0%E
-------	--------------------------

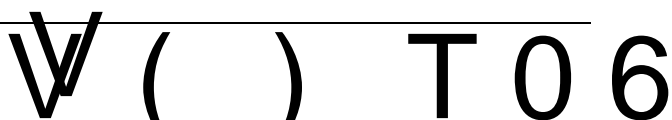
PC.22 ` / U ` / ~ U = 1.
 = G PC.22 PG
 =120 7 PC.22 PG
 \$ =PID \$ PC.22 PG
 \$ =120 \$ 7 PC.22 PG

PC.23	\$ OU0.1) 999.9%D100.0%E
-------	--------------------------

PC.23 U ` / ~ U = 1.
 = PC.23 PG = PC.23 PG
 \$ =\$ PC.23 PG \$ =\$ PC.23 PG
 & BC*

C~ *
 \ Oj V 7 0.000) 65.53m/s QS () 0) 999.9kW
 QS 2 3 0) 300.0% QS &8 0) 999.9V
 \ &8 0) 1000V AII 0.00) 10.00V
 XY 6 0) 65530

5.14 ; [\] 基 Pd



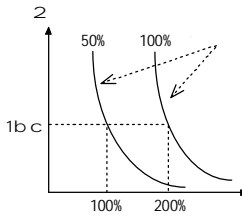
2 X 3W / , 9 Pd.01 Pd.03\$ 1F
 2 X Pd.02 Pd.04\$ 2

Pd.01	1	X	\$	OU0.0) 10.0VD10.0VE
Pd.02	1	2	\$	OU0) 4D0E
Pd.03	2	X	\$	OU0.0) 10.0VD10.0VE
Pd.04	2	2	\$	OU0) 4D0E

0Uwx All 1UA12(S2R4GB S2R75GB j)
 2U j 3U# \$
 4U \$

Pd.05	x, 9	X	\$	OU20) 110%D100%E
-------	------	---	----	------------------

= P = z = ! " X
 5-13-1 /



5-13-1 ^ _ ; [基

X = _____ 100%

QTc U
 { p! " p8W
 o, m 2 kX G. O 8J (10%) o, mU2 %/ 8J

& BC*

L & ' ~ 67&K6, ~ 67&Kq %] M 7Pd.05~ 6m y & ' ~ R@N N
 N ?] PWMMd* OLI N

Pd.06	i R)	\$	OU20.0) 200.0%D160.0%E
		\$	OU0.0) 60.0sD60.0sE

i R) Pd.06 4 i = X { \$ XHJ =

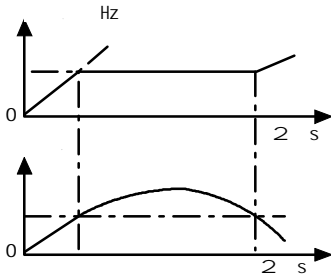
& BC*

1p /b 警 S水OA Y] d~ I 般kN证b 警 /N ? N
 2p /b 警 S] dFM 工 &K1 /b 警 S水OMx' F~ /b 警 S] d
 0N

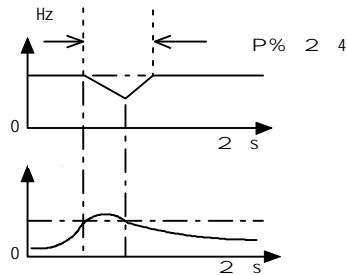
Pd.08	\$ O U0) 3DIE
0UN	1UP% N
2U!	3U 2-

Pd.09	\$ OUG ? U30) 180%D160%E P ? U60) 140%D120%E
-------	--

P% } 2 Q P 2 U dQ u L > . W
 Pd.08 1 2 32 G
 \$ 1 2 P% 2 \$ X k) Pd.092 p k
 H * x 9 [P% Pd.09X
 2 Pd.08 2 X k) Pd.09 t z % 2 4D-
 \$ - x Hk b D8 | } Pd.08 1
 Pd.08 3 X k) Pd.09 # [Pd.20\$ 2 t z %
 2 4D% \$ - x Hk b D8 | }
 P% # [| } 1min . + OL2 GQ ~ 2
 STOP/RESET ^ V 2 / 2s OL2 GQ ~



5-13-3 ^



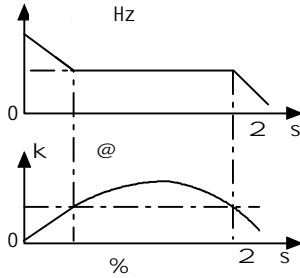
5-13-4 X 通讯 ^

Pd.10 @	\$ O U0) 1DIE
---------	---------------

0Unp 4 2 4 5 1U! "

Pd.11 @x	\$ O U(10.0) 150.0%k @D2J 220VU20% J 380U40%E
----------	---

! " k @ ~ @ 1.414 220V ? Pd.11 OnX 120% e 373V 380V
 ? Pd.11 OnX 140% e 752V
 @x 3Fk : 380V ? @ @ x 52V WO
 n x 700V 220V ? 23V WOn x 350V
 % Q U T-
 - 2 } | } K k @W x J P
 + @
 Pd.10=1 +% 2 k @W k 8 X (Pd.11) 2 % #
 k k @- O %
 # [@ | } 1min . + Ou @ GQ ~ STOP/RESET ^ x 2
 STOP/RESET ^ V 2 / 2s @ GQ ~



5-13-5 ^

Pd.12	6J RG •	\$	OU1) 100%D100%E
Pd.13	6J RG2	\$	OU2) 255sD10sE

k RG 6J J) 9 x 6J \$O
 RG • Pd.12 RG2 Pd.13.C +%/ RG • Pd.12 RG2 Pd.13

Pd.14	6J RG • S2R4GBF S2R75GB	\$	OU0) 100%D1%E
Pd.15	6J RG2 S2R4GBF S2R75GB	\$	OU0.0) 20.0sD2.0sE

k RG 6J J) 9 F ; x 6J
 \$%/ RG • O RG2 .C O RG • %/ RG2

Pd.17	AE1 AE2(S2R4GB S2R75GB j)	\$	OU0 1D0E
-------	----------------------------	----	----------

OU \ / 1U \ /
 :k \$ " \L) * 2Hs \ / , \$ 12 " \L 1/2) * W \ / AE1/AE2 ,
 \$ 0.2 \ / ,

Pd.18	G HE	\$	OU0) 10D0E
Pd.19	HE ' 2	\$	OU2.0) 20.0sD5.0sE
Pd.20	% n2	\$	OU0) 200msD50msE

@OC Ou GF G HE
 = aL\$ Pd.18F ' 2 Pd.19 G HE. HE ' : Xf
 i G HE K Pd.18\$ 0 2m/ NG HE 3W

& BC*
 谨慎` , ?KH(nMwx mn 引j 人身伤害v 财物• J N
 SC 10SUn ?KHn

Pd.21	2	\$	OU0 1D0E
-------	---	----	----------

OU 1U

Pd.22	&c 9	\$	OU0 1D0E
-------	------	----	----------

OU9[1U . k &c
 \$Pd.21\$ 12 W &c 67T t.
 k x k &c O 8
 \$Pd.22\$ 12 \$ | } 2 &c 9 3W
 k &c O \$ | } 2 &c 9 t% . k
 &c O

Pd.33 ^k x S2R4GB F S2R75GB j	\$ OU100.0%) 300.0%Dy ? E
Pd.34 8k S2R4GB F S2R75GB j	\$ OU0 1D1E

0Unp 1U! "

^k x 100.0% = Pd.33\$ 300.0%2 Pd.33N
 8k x * 230.0%eV X ? L :
 8k ^k C * 45 g8k

Pd.35 8k 6J RG 3030G/3037P T j	\$ OU0 1D0E
-----------------------------------	-------------

0Unp 1U! "

a Pd.12 ^k 6J RG k 8k 6J RG \$\$ 02np 12! " RG

5.15 通讯bcde PE

PE.00 /	\$ OU0) MIN(p' 30)D1E
PE.01 } ?	\$ OUm 5-14-1DNULE
PE.02 2	\$ OU0.00Hz) D0.00HzE
PE.03 2\$	\$ OU0.00Hz) D0.00HzE
PE.04 2	\$ OU0) 2 D0.0AE
PE.05 2k @	\$ OU0) 1000VD0VE
PE.06 2 87	\$ OU0) 3DStPE

0UStP 1UAcc P

2UdEc % 3Ucon

PE.07 2=T 2	\$ OU0) 65530hD0E
PE.08 2IGBT	\$ OU0.0) 200.0(D0.0(E

2' } E 2 87 B \$ + 3WXf PWM | } Z/[TRIP z
 ' } E 30 \] \$ PE.00D PE.01-PE.08` /? 8 \] 0
 m/ \ / 1m/ 8 } E \] N ' 2` /NULL Xc m/c@
 \] PE.00 p' } ? 1 m5-14-1U
 5-14-1 \]

NULL	N	Uu1	k @ 项
Uu2	W @	Uu3	Y W ' 2
OC1	P	OC2	%
OC3		Ou1	P @
Ou2	% @	Ou3	@
GF		OH1	+, ,
OL1		OL2	
SC	| W	EFO	DGA \ /j
EF1	wx. /j	SP1	6J) 9
SPO	6J) 9	CCF1	W 1 5 ^ _ 2 : 43
CCF2	W 2 ^ _ 2 [2	CCF3	EEPROM
CCF4	AD	CCF5	RAM
CCF6	CPUe KL	PCE	H o ~
HE	; < RG	DE	RG
CUE	,		

PE.10 =T 2 h	\$ OU0) 65530hD0E
--------------	-------------------

PE.11 =T 2 h	\$ OU0) 65530hD0E
PE.12 =T (MWh)	\$ OU0) 9999MWhD0E
PE.13 =T (KWh)	\$ OU0) 999KWhD0E

=T 2 (h)U | } 2 QT
 =T 2 (h)U | } 2 =T
 =T (MWh)U =T E
 =T (KWh)U =T E

PE.14 IGBT	\$ OU0.0) 200.0(D0.0(E
------------	--------------------------

/ IGBT \$

PE.15 >	\$ OU0.0) 200.0(D0.0(E
---------	--------------------------

/ > \$

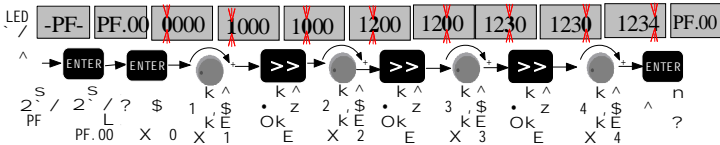
5.16 基; [PF

PF.00 ?	\$ OU0) 9999D0E
---------	-----------------

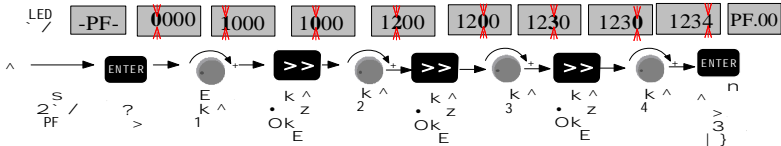
? \$ U ? \$ 0 m/N? \$ 2 AP PF F
 o
 ? f U \$? \$ E x PF 2 \$? f s + t
 AP PF
 ? D U ? E + ? f PF.00 D k L =
 X W ? ENTER W K ? D D ? \$ PF.01 0 W j
 ! " O

& BC*

- 7f, 密T < MB PRG/ESC: 退S PF" M 7~密T > ? @N
- 7, 密T < M^_字 7~, 密T Mwx s q n 访问本" F R N
- 忘 7~密T M 联 厂家N
- ? C例*s, 密T 7 1234M E S PF" < M y, 密T解 Nl 图 5-15-1 v 图 5-15-2)



5-15-1 K L f



5-15-2 K L f gh

PF.01 O	\$ OU0) 2D0E
---------	--------------

0U j ! " O
 1U \$ \$ P0.02 Fk / { | np O
 2U \$ / j np O

PF01 \$ 0 j ! " O yl m O F p2 O O
 l p2 O { | + O : F p2Hs D 1 4 SF ^
 PF01 \$ 1U \$\$ P0.02 Fk / { | np O
 PF01 \$ 2U \$ / j np O

& BC*

， 监视 MPF.01 7 0全Y 允许；写Mxm \M dND 7)AOj PID
 给7vOP PID 7给7NL PF01 7 1]M n \M dND 7)NL PF01 7 2]M
 R \M 4@N

PF02	\$	OU0) 3D0E
0UN		1U \$
2U H \$ X(' \?	\	3U H \$ X(' \? \$/)

PF02 \$ 0 N
 PF02 \$ 1 t \$ PE B PE.00 k PE.08 L b7
 PF02 \$ 2 t H \$ X(%&' ? \$ F \$/)
 PF02 \$ 3 t H \$ X(%&' F ? \$ \$/)

& BC*

， 忘 7|又q想 修; Mxm` , PF02 7 2~(nMt O核KS厂6M
 便重新 7 N
 除历史 录 恢KS厂 76<MPF02 ?恢K 0MJ Cyk~ 已经完{ N

PF03 @A	\$	OU0) 3D0E
0UN		1U j T
2U		3U B T

1- j T U ^ _ . ; \$ t @Ak
 2- U \$ t B @Ak ^ _ .
 3- T Ut ^ _ . ; \$ / \$ @Ak
 \$ PF03 N @!" ^ _ \$ PF03 @A @A N
 ^ _ \$ PF03 @A ^ _ /@A @A K PF03 G H 0 ^ _ /@A 2x STOP
 ^ H ^ _ | } ` / H X ; Eeprom) * + CCF3
 @A / 3 B4 TU

3	B4	3	B4	3	B4
dn0	j T	dn1	B T	uP	.
SUCC	@AK	StP	^ _ Stop ^	rEt	
EFLF	? L 8T	bdAF	^ _ . L) *	rEF	T L) *
Ur0	X . 2	brt0	^ _ . 2	Ldt0	@A 2

& BC*

种工X&M ` , %(nMmt O拷贝, 7f ~ Mf 少M试维 ~] dN
 拷贝(n y拷贝: 盘 %件DR@M* 允许 !A ' - - d 拷贝
 6000M-S2R4GBA S2R75GB 软件版本 V110 M6000M S21R5GBA S22R2GBA 6000E ! 软件版
 本 V140 版本 c 拷贝N

PF.04 G/P	\$	OU0 1D0E
0UQ?	?	1UP? & C} ?

k \$ @ = G/PO8 s + k 0 PF.02 2 D k

 \$ G? x P?Ut k \$ 1
Z U 2 5.5kWG? 7.5kWp? \$ PF.04=1

& BC*

理Ma (nT P- ; G-] M 15 似N

PF.09 L	\$ OU0) 9999Dy ? E
PF.10 ^k__ L	\$ OU0.00) 99.99Dy ? E
PF.11 O_ F bL	\$ OU0.000) 9.999Dy ? E
PF.12 ^k	\$ OU0) 9999Dy ? E

() * + ,

6.1 V, i j k

RG 8S 2 ^_ \ /k z 2Xf PWM | }
Z/[TRIPp x GQ ~ 2TRS b F - P x
RS - P PQ FB \$ p/HE^ p
/j wxHE 45U\$wx \L \ \$67T W \$ 3 (T
\Lx OO 3 W U8 HE H SCp +
10s O! " HE / SF } E2 87 \$
k @ } E o 3 / ^ p 3 | } x
= PE.00) PE.08 SC

6-1 V, i j k

\]	; [\] m	项n
----	-----	--------	----

Uul k @ I @) * I RS U @
I RSRG)\$

\ \]	; [	\ \] | m	项n
OL2		| X | | W/F O | F @ | | P 2 b| | )	| %/ " #P 2 | %/ " # 2 | V/F F W | RS F @ | | OPP 2 | )
SC EF0	| W/ | W DGRS485A /j	| | W | W | W | | A MODBUS 2 o~ | /j W E	| RS F Hse | RS] 4 | RS h | \$ 2RG2 t Pb.03 2 | RG2 \$ 0.0s | RS/j W | RS wx 67 x wxJ | : v k / F

() * + ,

6.3 \] k

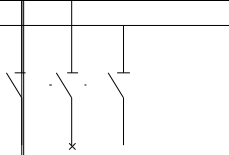
x ET g8 RS{ b J - P JRSF- P P
Q F <H

6-3 \] k

\]	&'	k
	U @HsP Uwx R S T. CHARGE LEDZ/[s	I U I , U x I RS U @ I nwxrspiK
	? @mG wx U V W @ Hs	I , U x
	O Hs f	I % Fa\$ f
	^_ N ` / RSTRIP[Hs	I aL S; m6-1
	Hs Zc	I RS wx Hs
	C \$ Hs ZcJK	I \$! " C Zc
	wx \LHs , xO.	I wx \L , xO.
	@Hs	I RS @
	\$ Hs	I \$
J	wxU V W Hs	I U V W = I P2.45
C	y W Hs	I
	Hs	I % " #P% 2
	\$ Xs	I RS \$ X
b	@mRS wx @- Hs	I RS V/F X
	Hs	I %
	Hs	I %
	J U N6J	I RS J U N6J I = 2J U AC 1 v U
	U	I RS U
Z	_m LV ' x M	I DH
	• b	I •
(b	v(	I "
	M)	I M
	J)9	I RS

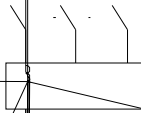
7.1 o p q

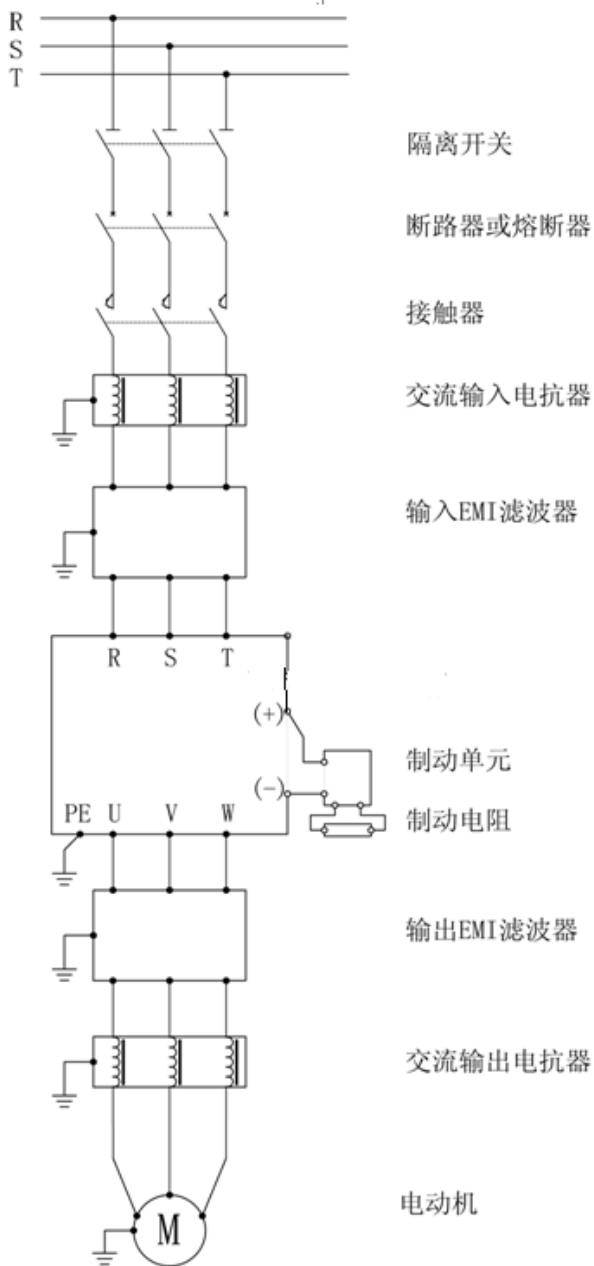
R
S
T



' N :

, W N,





隔离开关

断路器或熔断器

接触器

交流输入电抗器

输入EMI滤波器

制动单元

制动电阻

输出EMI滤波器

交流输出电抗器

电动机

7-2 3018G/3022P

o p

7.2 o p

7-1 ● o p 良K

o . q	j	r	*s t	*EMIuv	* 運w x
	9, p { W T U	29, U pg x	- O • * U XY	%/ E N KL Q (N/ 20j 2 45 UW Q (N 20j 2 W	f 2 U O O

4U=* g k

7.2.1 s t

u 1 * O • 45 T 67T
 u 1 U
 I Uo o 10P1
 I z8 U. Q =
 I J U @) 9 m 3%

7.2.2 運w x

15kw T 23 110k EN 23 23 @ / 4 18.5kw 9kw
 B j b j q 4 j b z + / 23
 j b 5(x v 74Tf7
 8W 10% 44X 7mU x
 @ 2

2 xE RS j g 4. , aL T TU U

U U R = Pb

R 4 4X U C 2 @ z C 8 = 380VAC C
 8W 700V 220VAC 8W 350V Pb j 4 F 8T yH8W 2
 d- 70% aL T TU 4 U

0.7 Pr = Pb D

/O\$

Pr 4 D xE T S8 Z 2Tm U

7-3 y

O U VF V



1. def wx wx. @ e >?
2. ' (wx/\ t/\2 8 , U e >?
3. 9, W U nCHARGE LEDZ/[\] 7 RS
o. rG @ >?
4. K L d 7 RS8 e >?



- 1 ^_X WX WX. CMOS 6K W 2 45 Z e
f WX WX. 6KYu
- 2 d twx e >?
3. dRS\L \$

8.1 ; { | [

Q H f x E x J20 ~? 8 \$ E x +
 x Z[1. j 3 k \ %
 T }E #: *] = 9*RSF
 : 3S^ 6S^8 78 H! b(

8.1.1 }, | [

* 2 n T; <U
 | Hs) * ()
 | Hs}, ,) *
 | Hs
 | mHs _ * X8
 | YZ&[Hs *
 | 4Hs h'
 9*8 RS o m&l /

8-1}, | [&' 时推

bL	RS<	RSj E	RS; <	O•
1	^ /	LED	^ /Hs ) *	| } RS 4 N' / hHs
2	YZ C	&[	Hs Hs) * Hs @- E	N) *
3			W).) a @	N) *
4		bO	. ?@ H	2.2 [Y *
5	@	wx	@	z 2 *
6			W ). (	N) *

8.1.2 ~ | [

O RS 9 o r j @G 7 L
 : 8 RS o m 8-2 /

8-2 ~ | [&'

RS<	RS o	=c
Wwx Ww xrds	rdsHss	r del K
+, u	Hs ?@	4) 6kg/cm ² @f Kf@T gg
PCB V WX	Hs ?@	4) 6kg/cm ² @f Kf@T gg
YZ&[	Hs Hs) * * (Hs @ - E	YZ&[\$ @F) j
3k	Hs ?@	4) 6kg/cm ² @f Kf@T gg
o	Hs h) a i j 5>	o
4	hHs'	t 4q Kf h

RS 5 t k k k 5Pg Gk s+ T *
 / | } . v T k : kIGBT { | k
 G 2 45 z l m R U m G 2x] @mG
 @ > @mG @ l mG m mG [k
 2 z 8 m G V ' m
 } G 45 n 40MHz / • G • } 2+ 100MHz
 / • o G / • (TV ' N
 U =J J) 92 45 m T G
 Q pV h N aV } } VV
 8 E - ho@) \$ } v k x V }
 45Qmp L
 V Wo@ (T 2 5 \$ o J \$ o@ t - %&
 V W h (Tt Wwx R S T U V W PB(P1) + - j | W v @
 sJ fgm 220V s 250V 380V s 500V 660V s 1000V G W
 fgmG q m 4rG
 = 380Vs W= h 4 / 5M W= h 4 / 3M

8.1.3 ~

#: (T = j x3 k %& : 7F8
 x3 k %&x { F [k zJ z 8W [2 Tm *
 s ' 67 | 67J
 m 8-3 / 7: @R 2 2
 8-3 • 输 有

k J	O• t
YZ&[	2) 3t
o	4) 5t
V WX	5) 8t

8.2 ! " . ; [

3W 2 #: ; 2 Vk TU
 I q * O Nu. N?@ N vv@ &'
 I 8t: + Y W o R H Y 2
 @ W @ v @ 2 1) 2 / 2
 I v Vt8
 5 Po@ | t T %&- v k = h 500V
 fgm G { h 4 R/ 4M

D O@Z D: G S 9 ' D:
w ! S ^ y 9: 24S ^
Q T b W D: 3v 8DU
I ! " G D PQ
I O • * K PQ
I w x yza K
I AO T k\
I /j)j { | K
I o ~ K
I Q I & H) * @ { | Gv HF HJ } b
= } E ~B • D; o
v • g = > o 2:
I S8S ^ D
I S S ^ D
I S! S ^ D
SkO/2 S S ^ D : ' ! z ! TU 35
35 b+ " E = R
: 9\$•g; o
I = BC * J E #} • g m\$
I = T% ek • 9} H • &
I
= • g R : 89
y H F = T\$T y { o~J

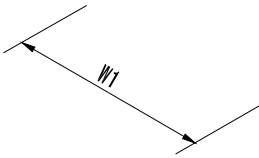
< = >

> { E & T ' (; CP
| u \$
| ' (
|) f \$
| * * +
|
| { | Q

, #- = \$T = ' 45 t

e1 o \$%。 \$%





		103 W
		P)3355G/3400P.1608.800.412.430.3400G/3450P)3500G/3560P.1800.100

#e2 &'

			kVA	A	A	kW
ALPHA6000M	S2R4GB	1PH 220V	1.0	5.1	2.4	0.4
	S2R75GB	50/60Hz	1.7	9.2	4.5	0.75
	S21R5GB	@ (OU176)	2.8	13.1	7.0	1.5
	S22R2GB	264V 5%	4.0	2		

@	0) @
	G? U150% 1bc 180% 20 P? : 120% 1bc 150% 1
	J /
O	U0.00) 650.0Hz U0.0) 1000Hz
	{ Zc /0.01 -10() +40(" Zc /0.01
\$ bu	{ Zc 0.01Hz " Zc 1/1000
bu	0.01Hz
\$ \ L	0) 10V 0) 20mA
P% 2	0.1) 3600 P % 2 i 3\$
	P 4 125%
@/	4 • V/F g5 V/F \$ = PG V/F
	@ @ x, 9 @ @ 6J 6J = J | W
	-10() +40(@

#e3 (KMODBUS) 仅

```

3      PLC . E$      MODBUS 35      Lu
I  MODBUS " K
    LQ 1| (PLC) F1) 31| " K \LB \L2K V
    z 2 1| \L2K $ G• - 3L Z 3
L \L2K k Zc P ; C
I  O•

```

	RS-485
	) q+8
	U1200/2400/4800/9600/19200/38400bps 54R U4 /5 /N L# URTU • 8E ASCII 7 8E pE URTU • 1E ASCII 21E N 22E
35	MODBUS RTU ASCII j
	31

```

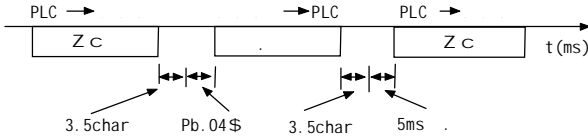
I wx
MODBUS wx 485+ 485-wx
I 2 45; <
(1) W { | f f bN
(2) Q mn mn? wx 8w ( pKL - )
PLC b TU
1. U9, | } T PLC F I
2. U
3. ^_ $ (Pb.00) Pb.08)
4. 9, U ^_ / g
5. x U
6. PLC
I $

```

```

PLC 2 $ : T S 4 5
PO.03 PO.04 PO.07 PO.11 P7.00 P7.01 P7.03 P7.04 P8.11 P9.19 Pd.02 Pd.04
Pb.00) Pb.08 Pd.16
*41: I $ p O tZc LO J 6 s+ 02H
*42: • F54 }E +(T x $ OE E FTE
{ <$ (T8T s+N 43 o
*43:$ - $ 02 Zc - OZc $ ->02 - }
E 3WE
I } Kb:
- KL HR { x 1 b aL L} Kb:
BJ >} KF L! * 4 T HR
I 35F
2 (PLC )= } Zc Zc o z L

```



g] 7 Tm/U

	-	Zc 3L	L o	CRC	2_
3.5char	1 char	1 char	n char	2 char	3.5char

L CRC-16 S\] CRC TU T:
 1 8W CRC-16 TU2 X 0 w X\$ 1 (16 E! H 1)
 2 - LSB MSB L MSB LSB TUCRC-16
 3 Zc 3 TU CRC-16 Zc CRC-16 =

2 MODBUS-ASCII
 ASCII 7` 2L : { A ASCII 3AH 73 ~ A ASCII 0DH,0AH
 \$ 7` F73 / 2 { AH! (0) 9 A) F @ O j ASCII
 } K } K 4E } K 4E L LRC - Zc L o
 L { AF 45 EE 872K K2 # 1 s+t
 n 2 o~ /" 2 / 1ms 8S~?7 T /U

E	-	Zc 3L	L o	LRC	2_A
1 char 3AH	2 char	2 char	n char	2 char	2 char 0DH 0AH

(0) 31) \$ 02 . kghZc !

I Zc 3L

<# MODBUS Zc 3L T 4 U

Zc 3L (16 E)		Zc #		* . #) * . #	
		/ {	{	/ {	{	/ {	{
03H		8	8	7	7	5	5
06H	O2S{	8	8	8	8	5	5
08H	G	8	8	8	8	5	5
10H	O '	11	11	8	8	5	5

I

注: 下文指令内容全部为16进制数据;

[03H]

2S{ ZcUB Z 3L IS{ ' o ' ob 8 EF 8 E bK .
 o 8j b

ZU 1L | }

RTU U

Zc o			* . o			) * . o		
7) 89:		01	7) 89:		01	7) 89:		01
; <= 6		03	; <= 6		03	; <= 6		83
> ?	@A	00	# D C #		02	GH= 6		03
9:	BA	20	# D	@A	00	CRC	@A	01
9:	@A	00	E F	BA	C1		BA	31
C #	BA	01		@A	79			
			CRC	BA	D4			
CRC	@A	85						
	BA	C0						

45U LS H - S 2

ASCII U

Z c U3A 3031 3033 3030 3230 3030 3031 4442 0D0A LRC UDB
 * . U3A 3031 3033 3032 3030 4331 3339 0D0A LRC U39
) * . U3A 3031 3833 3033 3739 0D0A LRC U79

[06H]

O 2S{ ZcUO2S{ kZ 6 Z 6 ; Z L ; L(T ' 3L b
 8 E 8 E b Zc o

ZU 1L

RTU U

Zc o			* . o			) * . o		
7) 89:		01	7) 89:		01	7) 89:		01
; <= 6		06	; <= 6		06	; <= 6		86
> ?	@A	00	> ?	@A	00	GH= 6		02
9:	BA	01	9:	BA	01	CRC	@A	C3
# D	@A	00	# D	@A	00		BA	A1
E F	BA	01	E F	BA	01			
	@A	19		@A	19			
CRC	BA	CA	CRC	BA	CA			

ASCII U

Z c U3A 3031 3036 3030 3031 3030 3031 4637 0D0A LRC UF7
 * . U3A 3031 3036 3030 3031 3030 3031 4637 0D0A LRC UF7
) * . U3A 3031 3836 3032 3737 0D0A LRC U77

[08H]

WG ZcUZc otb . } C \L KG G 3L L
 g5X

ZU WC G

RTU U

Zc o			* . o			) * . o		
7) 89:		01	7) 89:		01	7) 89:		01
; <= 6		08	; <= 6		08	; <= 6		88
, I	@A	00	, I	@A	00	GH= 6		03
# D	BA	00	# D	BA	00	CRC	@A	06
	@A	12		@A	12		BA	01
# D	BA	34	# D	BA	34			
	@A	ED		@A	ED			
CRC	BA	7C	CRC	BA	7C			

ASCII U

Z c U3A 3031 3038 3030 3030 3132 3334 4231 0D0AA03 (3) Tj0.12

[10H]

O 2S{ ZcUO okZ 6 . . . Z 6 . . O Z . . L O L(T ' 3L b
8 E . . 8 E b Zc o

ZU\$ 50.00Hz

RTU U

Zc o		* . o	) * . o
7) 89:	01	7) 89:	01
Zc 3L	10	; <= 6	10
> ?	@A 00	> ?	@A 00
9:	BA 02	9:	BA 02
9:	@A 00	9:	@A 00
C #	BA 01	C #	BA 01
#DC #	02	CRC	@A A0
#D	@A 13	CRC	BA 90
E F	BA 88		
CRC	@A AA		
	BA E4		

45U L S H - S 2

ASCII U

Z c U3A 3031 3130 3030 3032 3030 3031 3032 3133 3838 3446 0D0A LRC U4F
 * . U3A 3031 3130 3030 3032 3030 3031 4543 0D0A LRC UEC
) * . U3A 3031 3930 3033 3643 0D0A LRC U6C

[10H]

L ZcUO = MODBUS6 - k K - 0x00FF t o KEEPPROM
 J \$ ^ _ ENTER t L g 3 . . . 8 E . . 8 E b Zc o 00FFH L
 K Pb.06=02

ZU\$ P0.02 30.0Hz KEEPPROM

RTU U

Zc o		Zc o		) * . o	
O		L			
7) 89:	01	7) 89:	01	7) 89:	01
; <= 6	10	; <= 6	10	; <= 6	90
> ? 9:	@A 01	#DEF		G H J K	23
	BA 02			CRC	@A 0D
9: C #	@A 00				BA D9
	BA 01				
#DC #	02				
#DEF	@A 0B				
	BA B8				
CRC	@A B0				
	BA 30				

RTU U

Z c o			* . o			) * . o		
7) 89:		01	7) 89:		01	7) 89:		01
Z c 3L		10	; <= 6		10	; <= 6		90
> ?	@A	00	> ?	@A	00	GH= 6		03
9:	BA	01	9:	BA	01	C	@A	0C
9:	@A	0	9:	A			BA	01
C #	BA	0	C #	A				
# DC #		0	CRC	A				
	@A	0		A				
# D	BA	0						
E F	@A	1						
	BA	8						
	@A	6	4 5	- S	- S			
CRC	BA	E						

ASCII U

MODBUS -	J	bit	o	
0026H	A12 "	(V)	0~10.00V=	0~1000
0027H		(A)		
0028H		@ (V)		
0029H	\$	Hz		
002AH	j			
002BH	w x | }	0	wx X1	1U 0U
		1	wx X2	1U 0U
		2	wx X3	1U 0U
		3	wx X4	1U 0U
		4	wx X5	1U 0U
		5	wx X6	1U 0U
	6-F	j		
002CH	(j)			
002DH	| }	0	DO	1Up ONp 0Up OFFp
		1	j	
		2	TA-TB-TC 9	1Up ONp 0Up OFFp
		3-F	j	
002EH	AO1 "	V	0~10.00V=	0~1000
002FH	j			
0030H	j			
0031H	k @			
0032H				
0033H	\$			
0034H	\$			
0035H				
0036H	\$			
0037H				
0038H	PID C	(%)		
0039H	PID	(%)		
003AH	j			
003BH	j			
003CH	/ j T X			
003D-003FH	(j)			
0040-004AH	wx | } 0040H 004AHy =	002BH	BIT0-BITAE	
004B-00FEH	(j)			

I Modbus 6 - m:

m	3L (! DEC)	Modbus 6 - (! (HEX)
(n)		(00FFH)
(Zc L)		(0001H) 001FH)
(o)		(0020H) 004FH)
P0.00) P0.19		0100H) 0113H)
P1.00) P1.24		0200H) 0218H)
P2.00) P2.55		0300H) 0337H)
P3.00) P3.36		0400H) 0424H)
P4.00) P4.35		0500H) 0523H)
P5.00) P5.36		0600H) 0624H)
P7.00) P7.33		0800H) 0821H)
P8.00) P8.28		0900H) 091CH)
P9.00) P9.25		0A00H) 0A19H)
PA.00) PA.30		0B00H) 0B1EH)
Pb.00) Pb.08		0C00H) 0C08H)
PC.00) PC.23		0D00H) 0D17H)
Pd.00) Pd.37		0E00H) 0E2

m 3L (! DEC)	Modbus 6 - (! (HEX)
PF.00) PF.12	1000H) 100CH
(89)	(1100H) FFFFH)

I Modbus - 3 :
 F m L 8 E HI= L > 1 8 E LO= L . { | 6 - j .

I) * 3L 86m

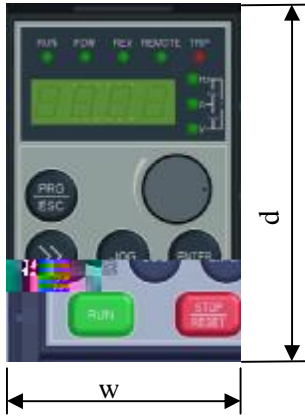
) * 3L	o
01H	Zc 3Lo ~UZc 3L 03H 08H 10H /
02H	6 - o~U 6 - 1 S! :' ENTER nK 6 [0x00FFH] \$ k - 41
03H	S o~ O LS 1 . 16 T O Zc L HE 2
21H	L\$ o~ L } E. T o~
22H	O o~ = O O I O 42 O 43 t K 6 O L) E CCF3WEEPROM 2O
23H	@2O) E Uu 2O
24H	O DG HE 2 Cg 2 L 2
25H	CRC 44

1 \$ P0.03 P0.04 \$ A O - 00022 \$ P0.07 &c A O
 - 00012

2U \$ z 86m D DMN @ QQQNp 6 28 # Fj2 (J

#e4 荐全)全 * \$%

4.1



A4-1 荐全〇〇

A4-1荐全 \$% 运是 mm

	w	d
S2R4GB S22R2GB 3R75GB 3004GB	49 0.2	76.5 0.2
35R5GB	61 0.2	96.5 0.2

4U^_b { U _ ^_F = @A _ ^_ { ^_@A8

4.2



A4-2) 全\$% 运是 mm

#e5 ; + 运

; + 运

U	
- U	
U	= U
> 3U	2? U
? LU	3LU
w9: U t ^ 9	9: U t ^ 9

| 7

U KW 7	U
} E2 U U	{ | U
U	
` / U OC OL OU OH LU N	{ | U
wx U	
HE U	@U N
Q8 2 : / 2	U

O67

U @U U-V V V-W V W-U V
@ o U KVA U N
v U(NU m v (NU m
(U N 8W @@U N 8W
{ | 67U