

	" # \$
	u O\$ = >?8@@ e, A7 BCO 7tuQg=D E&>?F GH/I J:K L@j MN2O 7 ;<F .tu @OgV4MNO\$ /
	u VPQk) RS u @(T: X8U/j O . V8WX. 7Y 8Z/[\] j ^ _ ` / \] abc O@ def O8 WXcghi j k/(T(l m n O8opq8_r@SQV P Ou .@s+ e87>?/
u . Qtu98Ur v, -. GHwx U) V) W/. (2@, -. 7 r Uwx yz IEC8 * . { | } ~ O • @ Q r U/	
	% & \$
	u ! " #7\$% O&kF. (' () * +, 7- k@Qg . /O1) 82F GH/
	u . 3J845678Oj MOSFET. J89\$. k@. R! 1; < J8=P2@ d(ef. V8WXc IGBT >?. Oj . k@s +Qg. /@A/
	' (\$
	u a: OB OC7DEQ @ F2GHpI J7 K77 OC/
	u tL{ } qj , - . - MoNr e7US@ t | OuP: 7{ } /

) * +, - . / O12345) 6789: ; <=>?@ABCDCEFG
HI JKLDMNO, PQR FSTUV5W8XYZ

 Q R

!	1
S8T U VRS	6
1.1 WXRS	6
1.2 &Y* +	6
1.3 , - . Z[	6
S\T Qk	7
2.1] : ^ • F _	7
2.1.1 W]	7
2.1.2 Y` az	7
2.1.3 <b=P	8
2.2 ScFde	8
2.3 fgWwx 7&r	9
2.3.1 f ^ hki	9
2.3.2 fgWwxr kj / 5i	10
2.3.3 fgWwxkl cQk	12
2.3.4 fgWwxQkZm	13
2.4 <=gWwx 7&r	14
2.4.1 <=gWwxfg	14
2.4.2 <=gWwxQk	17
2.5 nOMNQk &r	19
2.6 Qk 45; <	20
SoT tuMN	21
3.1 ^_7fg tu	21
3.1.1 ^_7l p	21
3.1.2 q^fgrs	22
3.1.3 LEDi t cZ/[rs	22
3.1.4 ^_7tuS(	23
3.2 MN>Z 7' u	24
3.3 MN	24
3.3.1 , - . MNSZ	24
3.3.2 vw. 8tu	24

QR

8.1.3	D \$H7. k	98
8.2	. ab	98
S T	. a	99
- R 1	.....	101
- R 2	>? * b	104
- R 3	. (MODBUS pq	106
- R 4	^_c _ . } W ~	114
- R 5	, - . a	115

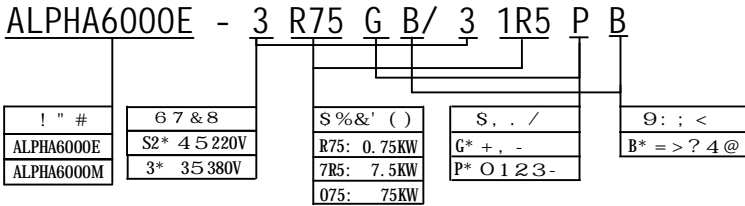
[\] ^ _ ` a

1.1

, - . j H) . 5 7 @, - . UV @WX RSO . s. MG . 7G
 7*) s U . 7 ^ J A . O1 / . @ * /

1.2

O & Y* +.



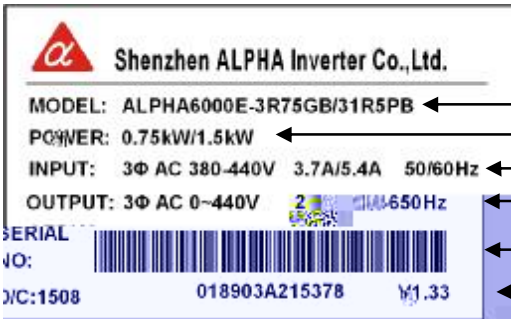
1-1 开箱

ALPHA6000E b ALPHA6000M R c d e f 8 g h i j k l m n 8 o p q r i j F s t u V / F b v w x y z f
 { | } ~ q r • SVC F V / F q r Z

ALPHA6000M-S2R4GB ALPHA6000M-S2R75GB ? v w x y z f { | } ~ q r • SVC Z

1.3 检查命名规

j , - . X 3 7 X S @ - O / , - . c C D 7 Z [@ R ALPHA6000E * + 7 8
 } ALPHA6000M * + } ~ ~ :



Q8
 CDGV8@@@89c-
 CDGH8@@@89c-
 t
 E @ k O

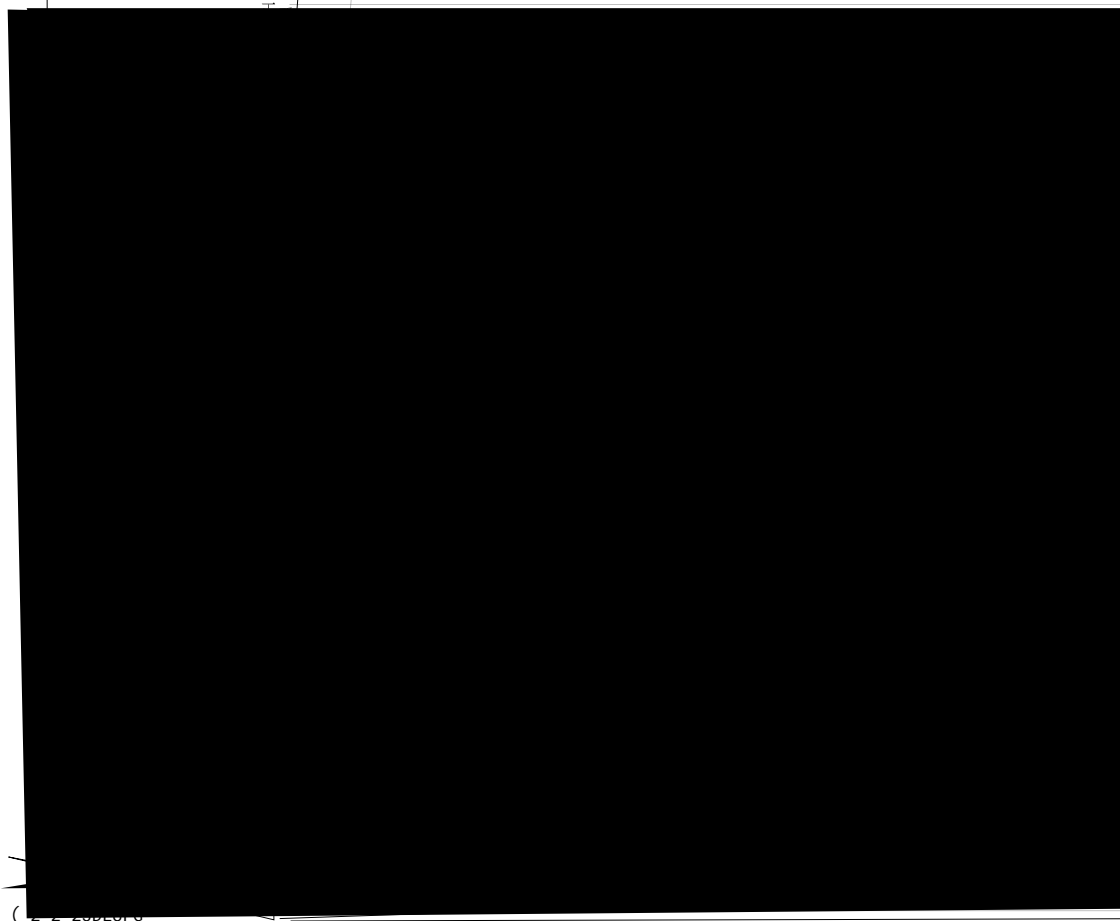
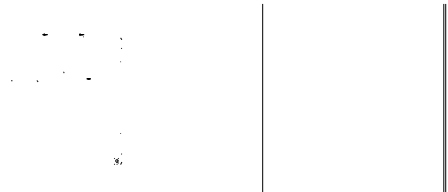
1-2 名规开箱

2.1.3 所要求和

u 2@ t, - . . <@\/] . E7 ^ 9d V, - . Oj / . 2_ @ ` a<@\/
Y` azl . 40(@ { | b. mT . Oj az . . @ pf 8 /L2~45
<b@89 / 3 V . O/
~ ^ @ . - ^ - C (/

2.2 则图管理变现环

O* +, - . . YZ&[R * &Y/ . YZcY . ' . @(Tt, - . . j d Sc@{
e Jf7 . gX(h)(Ta#| 7de@ i 2-1) 2-2 (2-1 23DE67



2.3 境温度防范措

2.3.1 境说

风扇

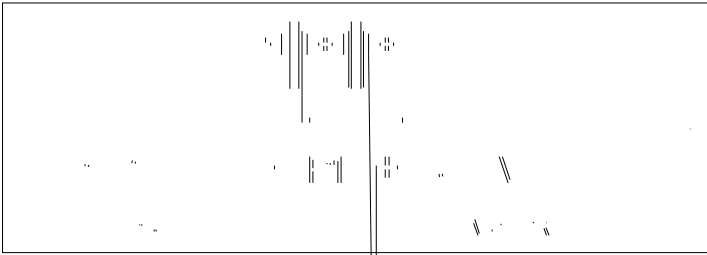
塑胶下



S \ T . Qk

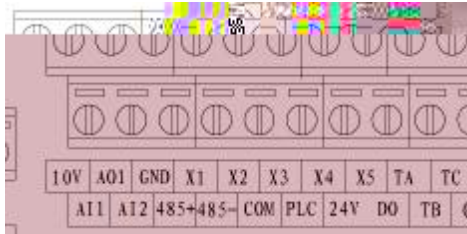
2.3.3 境温度防范





2.4 温度防范措

2.4.1 温度防范



2-15 S2R4GB S2R75GB 温度防范

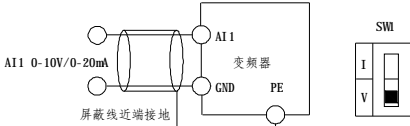
X2	X3	X4			TB
		COM		DO	TA TC

	防范		防范 开箱	
[f g G Vwx	X1	[f g G Vwx 1	Q D [^ f g 7 W ; ; G Vwx @ Sz T 5.4 I/Owx < = } P3h - G Vwx f g { | /	NGV@GV R=3.9kt 5 GV- 400Hz@GV8@b 0) 30V@h U COM
	X2	[f g G Vwx 2		
	X3	[f g G Vwx 3		
	X4	[f g G Vwx 4	Q D [^ f g 7 W ; ; G Vwx (@ Q u B GVws j S2R4GB) S2R75GB l g D [^ f g 7 W ; ; G Vwx @ Sz T 5.4 I/Owx < = } P3h - G Vwx f g { | /	NGV@GV R=3.9kt 5 GV- 400Hz/50KHz(S21R5GB) S22R2GB) 3R75GB/31R5PB c R.)@GV8@ b 0) 30V@h U COM
[f g G Vwx	X5	[f g G Vwx 5	Q D [^ f g 7 W ; ; G Vwx (@ Q D B GVws Sz T 5.4 I/Owx < = } P3h - G Vwx f g { | /	NGV@GV R=3.9kt 5 GV- 50KHz@GV8@b 0) 30V@h U COM
	X6 } S2R4 GB) S2R75G Baj ~	[f g G Vwx 6	Q D [^ f g 7 W ; ; G Vwx (@ Q D B GVws Sz T 5.4 I/Owx < = } P3h - G Vwx f g { | /	NGV@GV R=3.9kt 5 GV- 50KHz@GV8@b 0) 30V@h U COM
[f g G H	DO	WW 8 GHwx	Q D [f g 7 G Hwx @ 3QRu W ; ; GHw x / Sz T 5.4 I/Owx < = } P3h - GHwx f g { | /	N 8 WWGH/ u8@ b 0V) 26V@5x GH89 50mA@GH- b 0) 50KHz h U COM
8 G H	TA	8. GH	Q D [^ f g 7 8. G Hwx @ Sz T 5.4 I/Owx < = (P3 h) GHwx f g { | /	TA-TB X TA-TC W/ e x o ; @250VAC/2A } COS =1-@250VAC/1A } COS =0.4-30VDC/1A
	TB			
	TC			
	RA	8. GH		RA-RC W/ e x o ; @250VAC/2A } COS =1-@250VAC/1A } COS =0.4-30VDC/1A % 639 &!
	RC			
PLC	[f g G V v w	[f g G Vwx v w	H) 24V r @PLC 24VOj N/ 4 j (PLC 2T < = wx 7 SW4 k W/	Xwx # NPN F PNP &r SZ % 639 &!
8U	10V	+10V 8U	10V 8U } h U GND~	5x GH89 20 mA WW8@5xQ] 12V
	24V	+24V 8U	24V 8U } h U COM~	5x GH89 100mA
	GND	+10V 8U h U	> F 10V 8U 7h U	Oj COM N +10V) A11) A12) AO1 v w
	COM	+24V 8U v w	{ | wx Q (	GND N
	PE	mnr U	(wx r k mn r U / > k) 485 p q k) 8 8l k 7mn Qr j L wx	j Oj f g W r k wx PE J &

2.4.2 温度防范

> GVwxQk

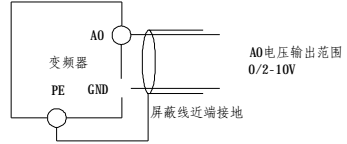
AI1) AI2wxr > GV(S2R4GB)
S2R75GB AI1)@AI1Q t W: SW3' uGV
8@} 0) 10V- GV89} 0) 20mA~/wx
QkSZ i



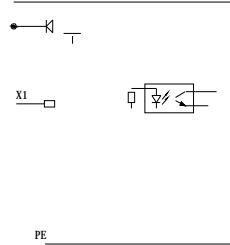
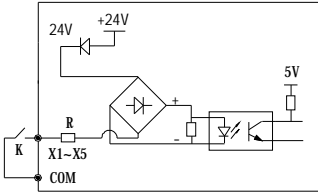
2-18' (* - 防范)

> GHwxQk

> GHwxAO S2R4GB) S2R75GB
#8@GH@{ Qp t W: SW2
' u8@/89GH@ r > mQZ/[^ _
; @wxQkSZ i



2-21 PLC/ 检查命1 23456措 " 检查命 789: \$
 f QR PC@3QR PLC@ O* +, - . / (PC f 2@ j f F k
 e 8 RS232/RS485Er... (PLC f 2@t 7RS485wx Ff 7RS485wxz YwJr Q/
 ; 输入多功能端子配线



& BC*

1pqr s 24Vt uv COMt u o g Mwxmnyz { | > } ~ • N

2p! ` , " # a b & c \$ % & \ ' 1mm () D * g | > t u N

3p ` , a b & c] M & c a b + ~ , t ' - . / O ~ 1 t D k 2 3 . / O 4 % ~ g h 5 6 * g F . / O ~ g h } PEN

4p 7 \] | > & c k 8 9 : ; < & = v > & \ = ' ? @ & A \ A & ' \ AB & O \ Ag CO * g \ DD
30cm () ME F d GHI MI J | > & c v > & & c KLMNM (OPQRZ [z { . / OS ? TN

< = X . 7 ^ _ & r r s CN 2 1 (= < 7 RJ-45 s / n k 1 (X X D & r < = XF
^ _ X @ () 3 QR V 4 ~ ^ D = # 7 ^ _ k / k . 5 F 5 l . n ,


Z < = 5 l 6000ERcLED • CPU 8 Z

^ _ F < = X 7 & r k 1 (O • l z } k @ RJ-45 r s & r 1 (p k SZ @ { w q EIA/TIA568B
k O • & r / () QR V 4 ~ ^ N = u ^ _ & r k /

2.6 BC

I j H8 2@ #9 , -. 7GV8U/
I j , -. pGH2SQ9H8 6N - 8U79H ; < /
I , -. \$ } =) 8 .) • . - 2@ " # (1000V s m ; \$ U
7 8 @a { . A 4Mt /
I GVZ kc - m & k mn @ . k @ ^ fgW N k @ 5 MNfgW
rk /
I . 89KL . / 7 ~ u @ < = gW & rk 1 (7mnk @ rk N / 50 /
I 9dtmnk7mn re { | kc \$ q @ Q (. = t 7mn X /
I : & rk 7 @ (T , -. 78 @ s J A /
I . < p 5 ; @ 7 E @ < = r Uwx PE fgWr Uwx PE (Tr U @ r U Q { | \$
7rUkv (@ fgWr UKl * . x fgWkl * 8 / rk _ @ ' (RSrk)
) rk . s jj \$ O @ . s @ wxj b 7 mk s { | wx r /






[]

 危險	1) nwx \ . . 2 @SQX GV8U@p8. @ dj \ / e87>? / 2) d M . \$ @ D82, - . 4 • / G7> ? / 1) y
--	---



3.1.2 KD 开箱

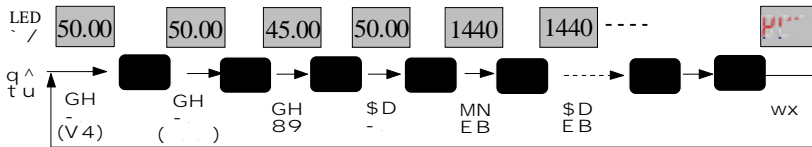
, - . ^ _ . \$ 8 q ^ @ V q ^ 7 f g D . m 3 - 1 : / /
3-1 DEKD

KD	KD	KD 3
	/ H ^	6V H / j l m 2 @ q PRG/ESC ^ 9 H @ ' # 6 V f g h @ q ENTER ^ Q s 6 V f g @ f g h i q PRG/ESC Q f g h i f g @ f g h @ l m @ s H , - . @ A 2 @ 9 H @ A ` / f g h / , e 2 @ 9 H , e F f g h /
	D ^	6V s @ h i \$ D 2 h i O o /
i t 	. W ^ (2)  - ^ (2) 	Q f g t h @ f g t f g t / h i \$ D @ L E d i t / % @ q L ^ @ + f g t j ` / @ \$ D ^ _ @ Q p i - \$ D @ B z P I D P D > P I D i P D /

M	T OP	检查命措UVOP
		@Sc E
REVCEMNScZ/	]	E MN
		CE LDMN
REVCEMNScZ/		CE B
		@Sc CE
TRIP@AZ/[]	
		@A
REMOTE Z/[]	^_<=
		wx<=
		Npq

3.1.4 DE措FG管

p ^_Q , - . 6N ^tu@
 hi 7` /9H



SoT

[] n

45: MN hi Q\$% MN hi Q\$%/
 * V4R Dhi @ Q\$% -) \$D@({) Q\$%/

P0 nOhi

名規 k	變查說型 WL	檢名查規則 查 類 ^要#	+l] ^	m n	MODBUS o
P0.00	` / > Z	0 O• 1 > Z	0		0100
P0.01	< = S Z	0 V/F < = 1 aj 2 WY: ; < = 3 V/F b N < = } S2R4GB F S2R75GB ; ; < = @ Q\$ 2-	0		0101
P0.02	- i \$ D	0.00Hz) 5x -	0.00Hz		0102
P0.03	- \$ DU 1	0 NULL 1 - i \$ D@i n 2 wx AI1 3 wx AI2} S2R4GB F S2R75GB aj ~ 5 GV 6 pqPD 8 [Bz 9 wx UP/DOWN 10 D2MN(PLC) 11 PID 4) 7 aj - U. 0) 7 2[Bwx q [Bz -	1		0103

SxT fghi ym

k	WL	] ^要#	+l] ^	m n	MODBUS o
P1.19	g = . (	30.0%) 100.0% 4 O* +, -. 3015GB cR OP B Vg =	100.0%		0213
P1.20	-	0 8 @d@A Uu1 1 2eOd, e Uu@ d@A Uu1 2 8 @d, e Uu	0		0214

规 k	管 号名则查图则 WL	管 名查规规则] ^ 要	名查	名查名说 + l] ^	查 m n	图名查 o	规则 型变
P2.34	B2e	f 132kW 0.1) 3600s f 160kW 1.0) 3600s		22kW c R 3.0s { | 10.0s		0322	
P2.35	B2e	0 1 1 10 2 0.1		0		0323	
P2.36	YZ &[<=	0 pSZ 1 p8 &[8 ME		0		0324	

SxT fghi ym

k	WL	] ^要#	+l] ^	m n	MODBUS o
P3.03	X3 wx f gD	0) 49 z . 50 i . e GV 51 i . Di 53 D2 ' u 74 GHwx <= 77 PID GH =P 0 78 PID b 2e 79 & 9Hv ^ _<= 45) 46) 52) 54) 73) 75) 76 aj	37		0403
S21R5GB) S22R2GB) 3R75GB/31R5PB c R .					
P3.04	X4 wx f gD	0) 79 z . 82 J B B J GV	0		0404
P3.05	X5 wx f gD	0) 79 z . 80 PULSE GV 81 J B J B A J GV	0		0405
P3.06	X6 wx f gD	0) 79 z .	0		0406
S2R4GB) S2R75GB c R					
P3.04	X4 wx f gD	0) 79 z .	0		0404
P3.05	X5 wx f gD	0) 79 z . 80 PULSE GV 81 J B	0		0405
P3.06	aj	-	-	*	0406
P3.07	aj	-	-	*	0407
P3.08	aj	-	-	*	0408
P3.09	aj	-	-	*	0409
P3.10	aj	-	-	*	040A
P3.11	aj	-	-	*	040B
P3.12	aj	-	-	*	040C
P3.13	X wx • 2e	0.002s) 1.000s	0.010s		040D

P5 PLC MN

k	WL	] ^要#	+l] ^	m n	MODBUS o
P5.00	MN>Z	0 cY1 1 cY2} a#5 ~ 2 & cY	2		0600
P5.01	PLC MN / SZ' u	0 S8 W MN 1 2 7 - MN 2 2 7MN- MN	0		0601
P5.02	82 PLC hi ' u	0 1 \$ 02 D MN R	0		0602
P5.03	2e ' u	0 1 b	0		0603
P5.04	MND2 T1	0.1) 3600	10.0		0604
P5.05	MND2 T2	0.0) 3600	10.0		0605
P5.06	MND2 T3		10.0		0606
P5.07	MND2 T4		10.0		0607
P5.08	MND2 T5		10.0		0608
P5.09	MND2 T6		10.0		0609
P5.10	MND2 T7		0.0) 3600	10.0		060A
P5.11	MND2 T8	10.0			060B
P5.12	MND2 T9	10.0			060C
P5.13	MND2 T10	10.0			060D
P5.14	MND2 T11	10.0			060E
P5.15	MND2 T12	10.0			060F
P5.16	MND2 T13	10.0			0610
P5.17	MND2 T14	10.0			0611

名说规

P7 PID < =

k	9.34	4.9	1.3	9.17	1.9	3.6	6.6	3.0	5.8	2.0	1.7	2.8	1.2	1.8	1.2	1.9	1.0	1.7	1.6	1.0	1.2	1.9	1.0
P7.00	y		y		y	Tj	/F1+	y	9.12.63.6	5													



P9 V/F <= hi

k	WL	] ^要#	+l] ^	m n	MODBUS o
P9.00	V/F k \$D	0 EF k 0 1 - EF k 1) 2.0~ 2 - EF k 2) 1.5~ 3 - EF k 3) 1.2~ 4 () \$D V/F k } QP9.01) P9.06 f gt D~	0		0A00
P9.01	V/F - F1	0.0) P9.03	10.00Hz		0A01
P9.02	V/F 8@ V1	0.0) 100.0%	20.0%		0A02
P9.03	V/F - F2	P9.01) P9.05	25.00Hz		0A03
P9.04	V/F 8@ V2	0.0) 100.0%	50.0%		0A04
P9.05	V/F - F3	P9.03) P0.09	40.00Hz		0A05
P9.06	V/F 8@ V3	0) 100.0%	80.0%		0A06
P9.07	EF W	0.0 EF W 0.1) 30.0% EF W	75kw c R 0.0% 93kw c R 0.1%		0A07
P9.08	EF W px	0.00) 50.00Hz	16.67Hz		0A08
P9.09	EU-	0.0) 250.0%) RCDEF 100%~	75kw c R 80.0% 93kw c R 0.0%		0A09
P9.10	EU 2e i	0.10) 25.00s	2.00s		0A0A
P9.11	g <= ' u	0 g <= 1 g <=			

PA: 8 hi

k

SxT fghi ym

PC ` / < =



k	WL	] ^要#	+l] ^	m n	MODBUS o
		3 GV 4 pq\$D			
Pd.05	8x, 8.ab	20) 110%	100%		0E05
Pd.06	ideRH	20.0) 200.0%	160.0%		0E06
0007					

PE MN R

k	WL	] ^要#	+l] ^	m n	MODBUS o
PE:00	` /@A' u	0) 30	1		0F00
PE.01	@A}	0 NULL 1 Uu1 k k @ 2 Uu2 <=8W 8@ 3 Uu3 Y8gW ' 4 OC1 B 9 5 OC2 B 9 6 OC3 B 9 7 Ou1 B @ 8 Ou2 B @ 9 Ou3 B @ 10 GF r U 11 OH1 +, . . . 12 OL1 8 . . . 13 OL2, - . . . 14 SC . . . W 15 EF0 D Np 7 j @A 16 EF1 wx . 7 j @A 17 SP1 GV J . . . 18 SP0 GH J . . . 19 CCF1 <=gW@A 1@p85 , - . . ^_ e G g 20 CCF2 <=gW@A 2@, - . . ^_ e&p @ G@A& 2 R. 21 CCF3 EEPROM @A 22 CCF4 AD E H@A 23 CCF5 RAM @A 24 CCF6 CPU KL 25 PCE hi =o- 26 aj 27 HE 89R @A 28 DE R @A 29 CUE @A	NULL	*	0F01
PE.02	@A2GH-	0.00Hz) . y -	0.00Hz	*	0F02
PE.03	@A2\$D-	0.00Hz) . y -	0.00Hz	*	0F03
PE.04	@A2GH89	0) 2 CD89	0.0A	*	0F04
PE.05	@A2k k 8@	0) 1000V	0V	*	0F05
PE.06	@A2MN 7	0: StP 2: dEc B 1: Acc B 3: con L B	Sc		

PF hi abc B

k	WL	] ^要#	+l] ^	m n	MODBUS o
PF.00	{ } t	0 t { | tab	0		1000
PF.01	hi Vab	0 jhi! " % 1 \$D- } P0.02-F fgt @{| fgth i p% 2 Ofgt @ j p%	0		1001
PF.02	hi v	0 tu 1 D @A R 2 H) \$D (R\ t\8 hi) 3 H) \$D (R\ t)	0		1002
PF.03	hi	0 u 1 hi 2 hi 3 8 hi 4 ^	0		1003
PF.04	G/P' u	0 G (EF) 1 P (&) }	0		1004
PF.05	aj	aj	-	*	1005
PF.06	aj	-	-	*	1006
PF.07	aj	-	-	*	1007
PF.08	aj	-	-	*	1008
PF.09	* +	0) 9999		*	1009
PF.10	k O	0.00) 99.99		*	100A
PF.11	' O OF	0.000) 9.999		*	100B

[] n

5.1 >? " P0 \$

P0.00 ` />Z	\$Db 0) 1 0
-------------	-------------

0 O• 1 >Z
 开箱 P0.00 \$D 12@6V >Z/j >Z @Qp n S F %Vh % 7f
 gt@{ ! %7fgtt ` / 6 % 0 @ j ` //

P0.01 <=SZ	\$Db 0) 3 0
------------	-------------

0 V/F <= 1 aj
 2 WY: ; <= 3 V/FbN<=
 开箱: V/F <= j ~ ^ (| , - . 8 | R. 8 j (6N8 hi oD (p {
 w 8 hi 767 @ ' uL<=SZ/
 WY: ; <= Bz \$. : ; <=SZ@Q(. . g p, B]: / S2R4GB F S2R75GB
 ; ; <=~
 V/FbN<= j ~ ^ - . F8@ <=7] @Q' uL<=SZ/

& BC*

UVWXYL | > 1Z] M[` , ~q\] ^ ~ _ ` a2bc&' Mx^ _ defgI &' hij kM
 dl G&' j k mn7(opqf ~ &' j k Mrs opt f ~ | > unMI Jvw1xyGz{ | Ghi
 j k gI v &' j k mn7} ~ xref gI YL | > 5 • j k M P8 YL | > j k ; < N
 v | > 1Z M2 1 . / O &' n | > 1 &' M . / O () D &' () D q
 5 3 M&' ~ () D m (. / O () D 1 \$ 1 Mwxs | > un. \$ e y
 GN

P0.02 - i \$D	\$Db 0.00Hz) 5x - 0.00Hz
---------------	--------------------------

开箱: fgj fgt P0.03 P0.04=12@ (^ _ 6N- . i \$D2 . @ | D 2, - . 7- . \$
 D /

& BC*

P0.02~ , k ? M1 ENTERGf ^ M v. / O YM ` &
 qy N
 [P0.03g 7r 1M , (nj k P3.18M P3.18g 7r 2] Mk g 7 /) ' P0.02Dv \ n ~
 & } q \ 2] M & q N
 D1

P0.03 - \$DU 1	\$Db 0) 11 1 1
----------------	----------------

6 Npq 7 aj 8 [Bz
9 EFU ;
开箱: P0.03 \$D 1 ^_i \$D2@j l m Qp. ^_. 7i %\$D-... \$\$D-
P0.02J: 2@l m Qp. ^_ no P0.02 /
wx A11) A12. > GV @1 (wx A11) A12 2@Qp. 0) 10V 8@ 0) 20mA 89 8
/

SzT fg{|

Sc D wx D7Sc #s5 @pq D7w @^_ D7Sc5A/ #s. 7 . 2@
+QA #s7 D/

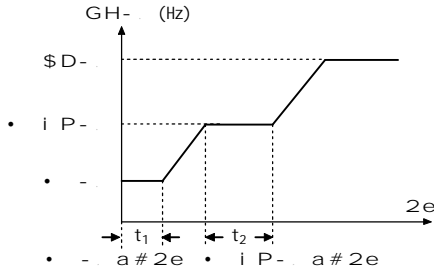
P0.09 nO-	\$Db A->Z 0.10) 650.0Hz ->Z} aj ~ 0.1) 1000Hz
P0.10 5xGH-	\$Db A->Z MAX[50.00Hz@. y- @\$D- @[- @ -) 650.0Hz 50.00Hz ->Z} aj ~ MAX[50.00Hz@. y- @\$D- @[- @ -) 1000Hz 50.0Hz

开箱: nO- F_{BASE} \$, -. 7GH8@ CD8@U_N275/GH- @(Du n. -. 7n•/
p R8 CD- u. nO- 7\$D /j p M(767 @ q8 7CD- ' uF_{BASE}/j
M(7] @Qq (^•\$D@ L2(T 45 . . 8 7V/F . 7Q c8 7H ^•@
i 5-0-1GH- GH8@: *i: //
5x- F_{MAX} O*+, - . ! " GH75 - . / \$D x . PCD @+ Qg 8

SzT f g{ |

P1.01 • - .	\$ Db 0.10) 60.00Hz 0.50Hz
P1.02 • - . a # 2e	\$ Db 0.0) 10.0s 0.0s

开箱 • - .



5-1-4 pq查 / pqwx查

& BC*

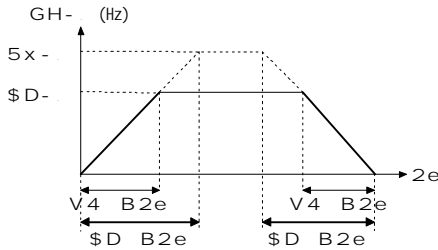
? I /) R ? /) A Rg7 /) S ? I /)] r 0] M ? I /) N

P1.07	B>Z	\$Db	0) 3 0
-------	-----	------	--------

0 k . 1 S k

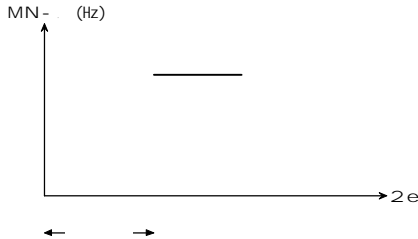
2 aj 3 aj

说明 k B . 8 p(. . : (@GH- qz D . @ i 5-1-5: //



5-1-5 v yzs

S k j BW F2_2 %, GH- @Q7 . . * 7) // 2@
 (A - 2~^ EF) - 2~^ 2 B7 . @ . = /



& BC:

(n\v. /OgW ' , M2 , RB ' j DMq n, Re yG] ~ >?N
v ' r ~ &Mk: >?4@SU, >?(n~' - N

P1.16	a# -	\$Db 0.00Hz) 5x - 0.00Hz
P1.17	a#2e	\$Db 0) 3600.0s 0.0s

开箱 a#- j q STOP ^ { k @MN- 4# - a#- @
- 0/
\$ a#2e. 02@ a#- \$ \$D7a#- x MN- 2@ a#
- /

P1.18 = ' u	\$Db b 0) 3 3
-------------	---------------

0 (= 1 (g =
2 (Jp= 3 (g FJp=

& BC*

R. / uq\] r ~ &Mm(qg>?& ` , 2>?}
R 2? LMD r ~ &M \IJs j kgI { 1\$3dUV %~n >?
4@ >?& N
15kW (' - I n >?4@N

P1.19 g = (\$Db 30.0) 100.0% 100.0%
-------------	--------------------------

开箱 \$P7i x = @ = 8 . 7aWt x/: R hi 7\$P. = 8 7
Ff. @' u 7 (Rj B= F89= 8 , eVW /
g = u8@xFJB @x} Pd.11~: @380VGV7 @g = u8@ .@JB
xA 52V(n ux. 700V)@220VGV7 A 23V(n ux 350V)/\$[Oo h Pd.11
7rs/

P1.20 _	\$Db 0) 2 0
---------	-------------

0 @d@AUul 1 2eOd, eUu@ d@AUul
2 @d, eUu/

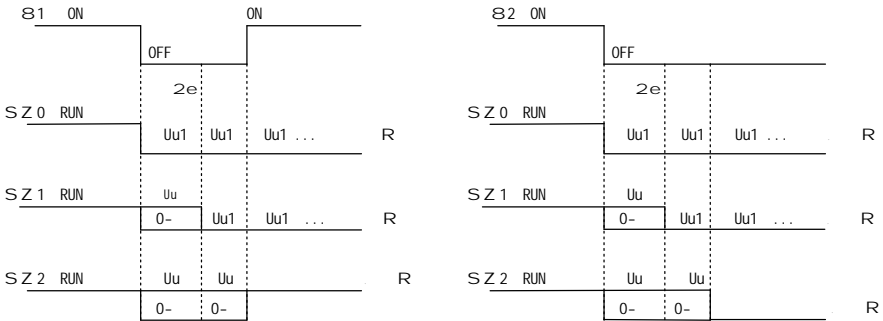
P1.21 2e	\$Db 0.5) 10.0s y D
----------	---------------------

P1.22 , e u' u	\$Db 0) 1 0
----------------	-------------

0 u 1 BMN

P1.23 BMN2 B	\$Db 0.10Hz/s) 5x - /s 10.00Hz/s
--------------	----------------------------------

开箱: 2HW @@+l, eUu@L28 / /D/ i 5-1-8: /
MN2HW @d Uu Uul@ i 5-1-8: / E Uu 2@X @6V 0 - MN/ @
+ Uu J. E Uul 2@+ @ - 8@v 300V R @+ u @A R@3 u @AGH
@ R Uul @A/
, e u' u 12@ , e qz P1.23 BB BMN@ j B2 8 @
+q\$DB2 \$ /



5-1-8 | Y) 器

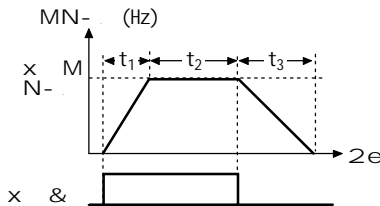
5.3 ~ • @A" P2 \$

P2.00 x MN-	\$Db 0.10Hz) . y - 5.00Hz
P2.01 x B2e	\$Db 0.1) 3600s 6.0/20.0s
P2.02 x B2e	\$Db 0.0) 3600s 6.0/20.0s

開箱

P2.00) P2.02D x MN27J: hi /
 i 5-2-1: /@t₁) t₃ V4MN7x BF B2e@t₂ x 2e@P2.00 x MN- @
 QP2.01 F P2.02 \$D7x B2e 0 5x - : ~72e/
 V4MN7x B2e t₁qz Z D/z_@V4MN7x B2e t₃3Q L D/
 SZQP2.02 \$D D \$P2.02 \$D ' 0 2@q SZ0 B P2.02 \$D 02@
 +q Q SZ

$$t_1 = \frac{x - x}{B2e}$$



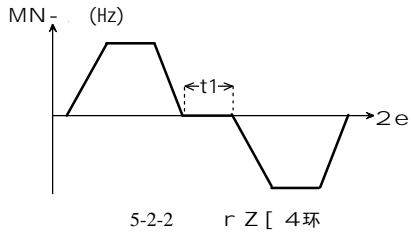
5-2-1 q@AWL 開箱

& BC*

1p ?yG ? 1Z 01 G ?M ? :] 4H 7r N
 2p[?] r 0mQ M ?yG3 M ' LK>?tu '] M] 4
 }
 3p T } A|>tu ml G ? |>N

P2.03 CE9H2e	\$Db 0.0) 3600s 0.0s
--------------	----------------------

開箱: , - . Q cME CcME@ QCcME cME7... @j GHi - 7
 2e@ i 5-2-2 : /7t₁/



P2.04 y - _ > Z	\$Db 0) 3 0
-----------------	-------------

0 MNj y - 1 0- MN
 2 3 aj
 开箱: ' u0 MNj y - 2@ \$D- / y - @+V4MN- y - \$ @



P2.28	B2e2	\$Db	0.1)	3600s	6.0/20.0s
P2.29	B2e2	\$Db	0.1)	3600s	6.0/20.0s
P2.30	B2e3	\$Db	0.1)	3600s	6.0/20.0s
P2.31	B2e3	\$Db	0.1)	3600s	6.0/20.0s
P2.32	B2e4	\$Db	0.1)	3600s	6.0/20.0s
P2.33	B2e4	\$Db	0.1)	3600s	6.0/20.0s
P2.34	B2e	\$Db	0.1)	3600s	3.0/10.0s

开箱 b B2e2) 3) 46ND } B2e1QP0.18) P0.19D -/, -. MN7) B2e
 Q j wxp. hi P3.01) P3.05' u D @+ B2e1/\$wx' u * {
 672@q B2e N/ D2MNFx MN7 B2e@ j wx<=@
 Q \$D7hi' u/
 \$, -. wx * 2@+qP2.34 B 2e @ SZ} P1.10~7y
 =/ B2e7 n @QRp %P2.35 B2e t \$D2e / qx10 /

P2.35	B2e	\$Db	0)	2	0
-------	-----	------	----	---	---

0 1 1 10
 2 0.1
 开箱 V4 B2e = B2e B2e

P2.36	YZ&[<=	\$Db	0)	1	0
-------	---------	------	----	---	---

0 pSZ 1 p8. &[8 ME
 开箱 pSZ , -. MN &[8 ME. 3 bc @ >?az 50(@&[E. s+
 30j /F1+3 7. 44 Tf15. 12 O TD (8) Tj /F1+2 7. 4 O TD j /F1

P2.49 PG B i 1	\$Db 1) 1000 1
P2.50 PG B i 2	\$Db 1) 1000 1

开箱 \$ t. (PG) r . j 8 . 2@~^\$P h i @PG B i 1 . . 8 . 7
i w@PG B i 2 7 . w@ %. 548) 40 63 7 52) 57 57) + 57 44 5 11 . 52 3 40

OU

P3.03 X3wx fg	\$Db 0) 79 37
P3.04 X4wx fg	\$Db 0) 79,82 0
P3.05 X5wx fg	\$Db 0) 81 0
P3.06 X6wx fg	\$Db 0) 79 0

开箱 <=wx X1) X6 [fgwx@p \$DP3.01) P3.067 D { 3fg/!" 6 D @6 D
 7wx@{ 8 2@ fg /\$D fg m5-3-1/

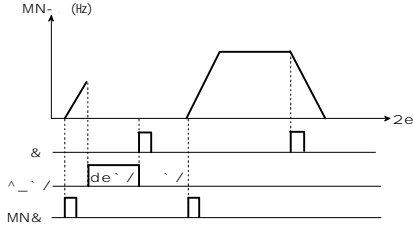
5-3-1

m5-3-1 : + 7fg{|

0- D : D wx wx@, - R wx7 @3 6Ngh @ wx mn
/ (7wx LD @Q <pKL ~ u/

1) 5 ME > Z @ P3.15ME > Z \$D/

6-RST j @A @Q(^_STOP/RESET^ H@A @3Q(D RST7wx H@A
@j MN • (wxQ , - q SZ /RSTZ j{. W N u/: R(
Tq - - - SZtu@ i 5-3-1: //

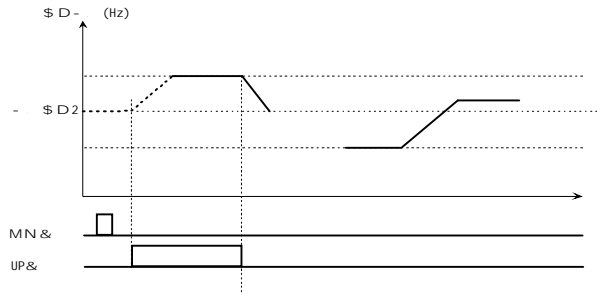


5-3-1 防范

7-FC- \$D' u FC- \$D' u fgwx @+- \$DQP0.06MN- \$Dh 2 D
Lfgwx @+- \$DQP0.05MN- \$Dh 1 D/, - MN @QRp FCwx 9
H- \$DSZ@ \$vw7<=, - 7GH- /

8) 9 CEx Z FJOG/RJOG

, - p MNZ • MN} - GH-2@D FJOGfgwx @ N



SzT fg{|

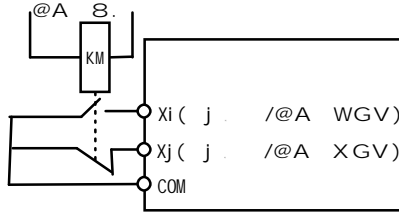
16- B pZ a#8 . gh D 7 } & -@ # \$ EBME /

17-, -. MN p wx . 2@MN 7, -. + Q @ + p / f ^ (~ ^
7] /

18) 24@26) 29 [B
[Bz MN27 • / p < = Q' u ^ _) wxZ Npf 7 14 O T 9

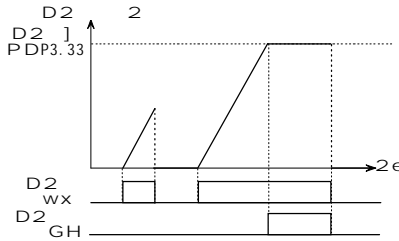
)pf 7.44

EIO j W@EII j X , - . j MN @r j @ 0- MN/8
 j @, - . MN@Qh EH0 j @A W) EHI j @A X J: rs@ i 5-3-6
 : //



5-3-6 /

41- 9= (wx 7* VP 9= /
 42) 44 wx PLC<=
 PLC V D2MN/t- \$DIGH PLC PID V} z/ (- \$DU22@PLC V /
 PLC D2MN /wx 2 D2MN@6V0- MN Z ` x
 MN/wx e q STOP ^@ MN i . Di @ w• 2@q/ SZ/ / , - . ! j
 MNSZ u+ fg 5 /
 PLC j PLCMN>Z7 @ fgwx 2tD PLC 2 7MN
) MN2e /
 47-PID V PIDMN@t- \$DIGH PIDXY/ (- \$DU22@PID V /
 48-Bz/ F >Z9H
 j ; ; <=>Z @QP8.10EF<=>Z\$DF wx DMNj Bz EF>Z@ \$P8.10
 \$ 0} qBz >ZMN~2@\$wx\$ 48 2@+MN>Z 9H EF>Z/
 49) 53 D2
 49 wx 2D22eW 2@ 2D0/
 \$D2] PD} P3.33~2 p 2/ i 5-3-7: //
 53 fgwx 2@P3.33D2] PD 9H bc@ . + /



5-3-7 ^4 q*-

50- i . e GV OP i . 7 i GVs@ 5 - 200Hz@ 82QR \$
 i /
 51- i . Di , - . OP7 i . 6NDi tu@ i . e GVQ (/
 74-GHwx <= fgwxGV 2@36 GHfgwxGH
 77-PIDGH =P0 Bz PIDMN2@\$wx\$P 2@GH =P \$DBz > PIDMN2@\$
 wx\$P 2@GH =P i - /
 78-PID b2e PIDMN>Z @8 PI<=@\$wx\$D @L22tI n @ b
 n . 0/
 80-PULSE GV fgwxr u - PD@GV7 - \$D- 7: *@h
 P4h- PD k7rs/

SzT fg{|

81 J B GV OPPG J B GVwxfg fgZD7wxr E. t. }
PG~7AJ @VW J BzC /
82 J BBJ GVOPPG J BBJ GVfg@ fgZD7wxr t. } PG~B
J @F8I fgwxQ VW J BzC /

& BC*

I PG5 L- &`QS - ~ & OM&8 12) 30VDC@g\ 1Zmj 2.4.2
> =tu~*gGN

开箱 •2e i GV 6Ni • _@R<pKL * LD7 /
•2e i x@<=LD@ <= , U /2@ @ Qg<= LD/ 5 \$
D @Q <= LD " 67 \$no\$D /

0 {kZME>Z 1 1 {kZME>Z 2

2 okZME>Z 1- a#fg} - X1) X6 g58wx~

3 okZME>Z 2- a#fg} - X1) X6 g58wx~

开箱 \$, -. MN& <=SZ} P0.07~ wx<=2@{ kZ 1) 2@okZ 1) 2O 5 /

{kZME>Z1@FWD@REV qZ/ScMN@FWD E@REV CE/({} Qp 9Hwx
FWD) REV@<=8 CE/\$FWD 2 EMN \$REV 2@ <CE' uP2.38 1 pCE@
+ p 0 !" CE@+CEMN/z 2 2@ p/wxrkSZ i 1: //

{kZME>Z2@RUN MN& @FR:MNSc@{ 2 (/ \$RUN 2@• , - . @
FR\$D2@FR= 2 E@FR 2CE@ FR\$D2@ScQfgt D/\$RUN 2@ p,
- . MN/wxrkSZ i 2/

okZME>Z1@FWD@REV qZ/ScMN@FWD E@REV CE/HLD 2@({} Qp
9Hwx FWD) REV@<=8 CE/\$FWD 2 E \$REV 2CE z 2 2@
/ HLD ONH L7L44 TD (#),Tj/F13Tf 15.12 0 TD 0.24 T44 0 TD (z) Tj/F1+3 7.44 Tf 7.(rk) Tj 0.24 Tc (SZ) Vc (

4 O TD (=) Tj /F1+6 7. 44 Tf 16. 8 O TD (@ Tf 15. 12 OTD O Tc (

开箱 wx UP/DOWNB D (UP/DOWNwx %\$D- 7, / UP/DOWNPD D (UP/DOWNwx %\$D- 7, b /

P3.18i - UP/DOWN ' u	\$Db 0) 2 2
----------------------	-------------

0 r STOP@UP/DOWN PD 0/
 1 r STOP@UP/DOWN PD 0@ 8 a. /
 2 r STOP@UP/DOWN PD 0@ 8a. fgt... P0.03 \$D. 12@P0.02j kno 8a. /

开箱 UP/DOWNMN i 5-3-3@5-3-4: //
 P0.03\$D 1^_ \$D- 2 P3.18\$D 22@i \$D- } P0.02~j kno 8a ... 22@ 8 a @ 3h P0.02 /

P3.19 D0wx fgD	\$Db 0) 37 0
----------------	--------------

P3.24 8. 1(TA/TB/TC)GHf g' u	\$Db 0) 37 19
------------------------------	---------------

P3.25 8. 2(RA/RC~ GHf g' u	\$Db 0) 37 0
----------------------------	--------------

8. 2(RA/RC~ 639<=X /
 开箱 O* +, -. v2WW: ; GH@{ GHwx D0) 8. 1 . Q . [fgwx / () Q ~ ^ @ uGH8j b <= F l m @ m5-3-4/

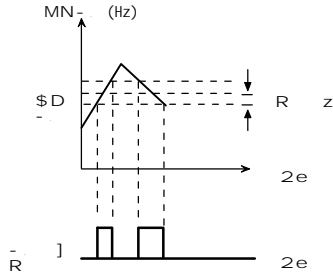
5-3-4 1 防范* +

QR		
0	NULL	
1	RUN MN	, -. MN @wxGH
2	FAR -]	hzrs P3.26 -] RH z
3	FDT - R	h P3.27) P3.28 - R - R J: rs
4	FDTH . y-]	\$D- . y- MN-] . y- "] 2@wxGH . /
5	FDTL y-]	\$D- . y- MN-] "] J

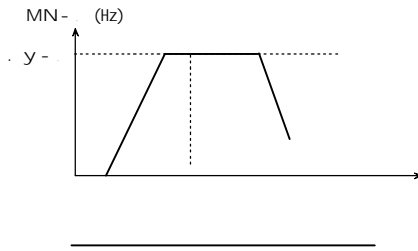
	QR	
29		* 2wx GH
30	i B	GH- 0 2wx GH
31	aj	aj
32	aj	aj
33	V4 ESc	\$, - . 6NSc 9H2@GH78 34 E%,
34	aj	aj
35	RH } ULP~	\$, - . 2@ RH
36	[B	g58 [BGVwx} 18) 24) 26) 29~ @wx GH
37	< =	74 GVf gwxGV 2@wx GH

P3.26 -] RH z	\$Db 0.00) 10.00Hz 2.50Hz
----------------	---------------------------

开箱 GH-] \$D- 2@Lfgno{ R z@nob \$D- 70) 10.00Hz/ \$,
 - . 7GH- j \$D- 7 RH z O2@J GHf gwxGH @ i 5-3-8: //



5-3-8 查



5.5 ' (" P4 \$

P4.00 > ; ' k ' u	\$Db 0) 3 0
-------------------	-------------

0 1 All

2 AI2} S2R4GB) S2R75GB aj ~ 3

开箱 \$ P4.00 \$D 0 2@P4.01) P4.05 \$DD All GV ... P4.11) P4.15 \$D GV\$D

2W\$D @ KL

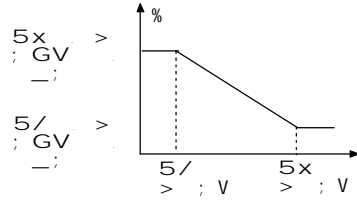
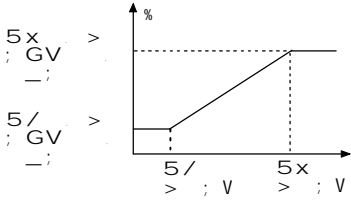
P4.00 \$D 0@ ' k ' u2@ P4.01) P4.15: \$D P4.00: ' p 7 x • 2

eR p • @ 1Wp _; 0

\$ P4.00 \$D 1 2(S2R4GB) S2R75GB aj)2@ GV4 O TD (p) Tj / P1+8 76 Sj

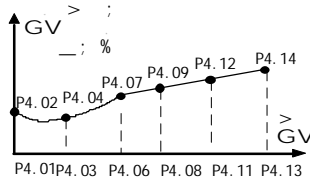
\$ P4.00 \$y00 \$ _ WT c >9 2 / F 1 275 G . (b W P 2 0 0





5-4-1' (* - {

开箱 2 \$ P4.00 \$ P 1) 2(S2R4GB) S2R75GB aj) 3 2@P4.01) P4.04@P4.06) P4.09@ P4.11) P4.14
 ((. r s l z / () Q R p \$ D @ D ' k . k / Q \$ D M N k 7 x / i
 5-4-2 : / @ P4.01) P4.03) P4.06) P4.08) P4.11) P4.13 7 /



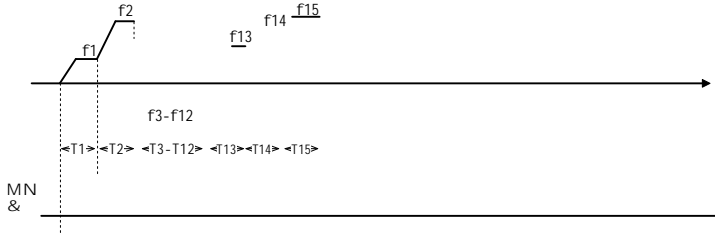
5-4-2' (* - {

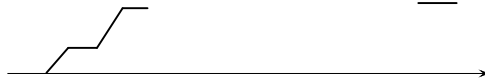
开箱 3 • 2e i GV 6Ni • _@R<pKL * LD7 /
 • 2e i x@<=LD@ <= . , U / 2@ @ Qg<= LD/ . 5 \$ D @
 Q

P4.31	A01	P	\$Db	-100%	100%	0.0%
P4.32	A02	P	\$Db	-100%	100%	0.0%

开箱 P(b m/@ (k m/@V4GH(y m/@O• GH(x m/@+V4GH
 y=kx 10b A01 P100% 10V/O• GHZGH0) 10V > GH; 70) 5x /8 (> GH7i ! FGH 7 U/3QR D gh~^7GH k/ > GHOo MN- @" #j - 02GH8V@- 5x2GH3V@+ \$ -0.50 @ P \$ 80% /

P4.34	D0	5x GH	-	\$Db	P
-------	----	-------	---	------	---





←T1→ ←T2→

←T4→

P5.28 T10	MN\$D	\$Db 1F) 4r 1F
P5.29 T11	MN\$D	\$Db 1F) 4r 1F
P5.30 T12	MN\$D	\$Db 1F) 4r 1F
P5.31 T13	MN\$D	\$Db 1F) 4r 1F
P5.32 T14	MN\$D	\$Db 1F) 4r 1F
P5.33 T15	MN\$D	\$Db 1F) 4r 1F

开箱 * D , - . B2eFMNSc/v 8^h @ { m5-5-1/

5-5-1 PLC i @A] ^开箱

h Oo	B2e	MN Sc
1F	B2e1	F c
1r		r Cc
2F	B2e2	F c
2r		r Cc
3F	B2e3	F c
3r		r Cc
4F	B2e4	F c
4r		r Cc

P5.34	MN RDi	\$Db 0) 1 0
P5.35	MN i R	\$Db 0) 15 0
P5.36	MNO 2e	\$Db 0.0) 3600 0.0

开箱 MN i RP5.35 R\$ PLCMN i /
MNO 2eP5.36 R\$ PLCO MN2e /
P5.34 12D MN i RP5.35) MNO 2eP5.36@D0 Of gt . 0/

& . . O

P7.03 PIDC U1	\$Db 0) 5 0
P7.04 PIDC U2	\$Db 0) 5 0

0 OPPG J BGV} P7.03~/ aj } P7.04~
 1 AIIwx 2 AI2wx (S2R4GB) S2R75GBaj)
 3 aj 4 GV
 5 Npq

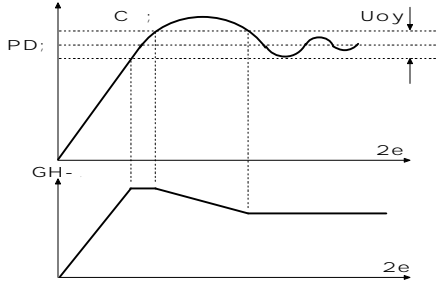
P7.05 C ; h	\$Db 0) 5 0
-------------	-------------

0 PIDC U1 1 PIDC U2
 2 MIN} PIDC U1@PIDC U2~ 3 MAX} PIDC U1@PIDC U2~
 4 PIDC U1 PIDC U2 5 PIDC U1-PIDC U2
 开箱 (DPIDC ; GVSZFp /C p . 02@MNj Bz PID>Z@{ PD . > ; 2@q
 { ; . . 5xEB(5x- . . . 7EB)% EBPD/{ C p 20ND1(2444OT 6D.1)



P7.22 ~Uoy	\$Db 0.0) 999.9 0.0
------------	---------------------

开箱: \$C F\$D7U A PID~Uoy\$D 2@PID<=. no@, -. # \$ 7GH/
 i 5-7-1: //
 Lfg7 \$P! ()* GH7 zFLDz/~Uoy-A2* 7n. z@ . 2
 * LD z@89 (^7GH. /
 > PID2@~Uoy\$DP7.22 _; 7 @^ ; Q@EBPID2-Uoy\$DP7.22 E
 B/ i 5-7-1: /



5-7-1

P7.23 PIDn	\$Db 0) 1 0
------------	-------------

0 u(1 Cu(
 开箱 u(\$PIDGH @ - @: <=7 _; 2' (@ . * /
 Cu(\$PIDGH @ - @: <=7 _; /2' (@ =Y* /

P7.24 bn 'u	\$Db 0) 1 0
-------------	-------------

0 - . y2@ p bn. 1 - . y2@ bn.

& BC*

R r k~ MIJU0M (/) F)]M P 9 N

P7.25 • (\$Db 0) 1 0
-----------	-------------

0 • (1 • (

& BC*

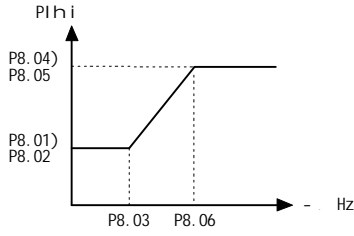
2 PID] (nN

P7.26 " 2	\$Db 0) 999s 120s
-----------	-------------------

P7.27	\$Db 0.00Hz) . y- 20.00Hz
-------	---------------------------

P7.28	\$Db 0.0) 100% 80%
-------	--------------------

开箱 Lfg(j 9; i 2 p, ; } : ! ~j ^ 67 @ , ; 7- A
 @" 2 . /
 j L" 2 @- A @+, ; / o \$ /
 ^9Hv @ C (T-v /L2, ; / } i: / 5-7-2-/ \$
 Db 7 > PIDC 7 b /
 ~^(^_ . n @ \$D@Qt PCh PC.01-PC.20 PC.16,PC.17\$ 1@{ \$ @@
 j l < / n @@ \$D4*H@ + , / n @Qq ENTER n/
 86 MN@ n 7@ /



5-8-1 PIWL

p. \$DBzn . 7 *i F b2e@QRn ; ; <=7Bz / @
 / b2e@ Q BzY7 / x b2e / Qg * E /
 n. S(H) hi g{| ^• @+j H) hi nG. 6NEn # x @a
 *

P8.14 \$D *i	\$Db 0.0%) 200.0% 102.4%
--------------	--------------------------

开箱 :; <=SZ @ hi EFZ 6N @%, hi QR%, GH89@p %/

P8.15 EF B2e	\$Db 0.00) 120.0s 0.50s
P8.16 EF B2e	\$Db 0.00) 120.0s 0.50s

开箱 \$PEF>Z27EF B2e@Bz>Z Lfg
EF 0]CDEF72e EF B2e@ CDEF]072e EF B2e/

P8.17 AB EU	\$Db 50.0%) 200.0% 117.0%
-------------	---------------------------

开箱 Bz \$. :; <=@ AB2= MN LD@Q \$ xLhi /

P8.18 B EU	\$Db 50.0%) 200.0% 117.0%
------------	---------------------------

开箱 Bz \$. :; <=@ hi (Dno8 7LB z \$8 = 2Bz A+ x hi @
C + / hi /

P8.23 i BEF W	\$Db 0.0) 50.0% 0.0%
P8.24 i B	\$Db 0) 20% 5%

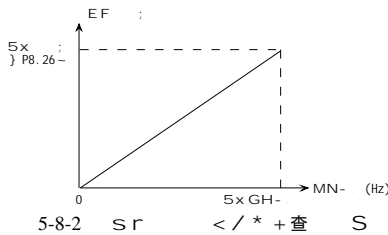
开箱 P8.23i BEF W 2 i B27GHEF@ 8 j i B2a#8D7 F/
i B \$Db 7 0) 20%75xGH-

P8.25 = EF\$DU	\$Db 0) 5 0
----------------	-------------

- 0 P8.11 75 EF\$D 8T 1 AIi
- 2 AI2 (\$2R4GB) S2R75GBaj) 3 aj
- 4 GV 5 Npq

P8.26 B F	\$Db 40.0%) 160.0% 100.0%
P8.27 B F y	\$Db 0) 1) 2 0

0 qMN- 1 qkBz } aj ~
2 aj
开箱 F+MNBz7 @ * 4 D [7EF@ BEF 2 j b *
7 F a# 7EFnO , /
P8.26\$D7 5x ; @100.0% 8 CDGHEF@\$ y qMN- 2@ F
; \$ MN- 7: * i 5-8-2



P8.28 i J2e	\$Db 0.05) 10.00s y D
-------------	-----------------------

开箱 i Jfg(D 8 • J]@Ohi \$P # 72e/

5.10 V/F " P9 \$

P9.00 V/F k \$D	\$Db 0) 4 0
-----------------	-------------

0

& BC*

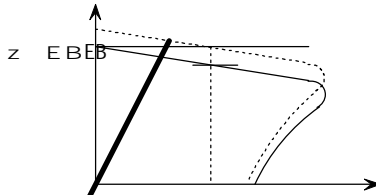
1p j kgI q m &' \$3K
2p ? c&']MI J, ^, ?23B Md &' j kv`, & nV/F \N

P9.08	EF W px	\$Db	0.00)	50.00Hz	16.67 Hz
-------	---------	------	-------	---------	----------

开箱 fgD EF W7 p- @ i 5-9-3/ p- (P9.00 D7ghV/F k/

P9.09	EU-	\$Db	0.0)	250.0%	75kw cR	80.0%	93kw cR.	0.0%
P9.10	EU	2e i	\$Db	0.10)	25.00s	2.00s		

开箱 8 EF7, t 8 MNEU@mT8 Bz, /p EU @ 8 EF
no, -. GH- @R 8 7 z@ i 5-9-4: //



PA.01 8 1 i	\$Db 2) 56 4
PA.02 8 ICDF	\$Db 0.4) 999.9kW y D
PA.03 8 ICDE B	\$Db 0) 24000r/m-280.855 0.851 0.86H
PA.04 8 IC89	\$Db 0.1) 999.9A y D

开箱 PA.01) PA.04(\$P <8 17i @ . <= . g@ qz 8 7Z[hi \$P
 J: /

8 , - . s QQP@8 I!" - . / x8s . @ ga 7 44. f

4p j kn73 ' b D PA.29m? I r 0N

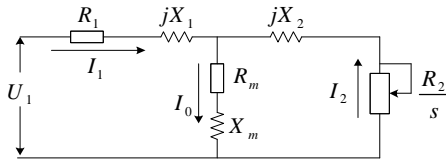
5p j kn73 M T } C -At- M j kn7q{ (M T } s C AtE N

4 J poD2@8 d 89 S(F8 \$ S(Z: @ { L 8 \$@ I₀ d 8

9@L_m \$@h 8 @I 8 CD89@U 8 CD8@@f 8 n- /

$$d 89 I_0 = I \cdot \sqrt{1-h^2} \quad \$ \quad L_m = \frac{U}{2\sqrt{3}pf \cdot I_0} - L$$

R. 8 hi 7 3 i 5-10-1: //



5-10-1 P 度

i 5-10-1 7R₁) X₁) R₂) X₂) X_m) I₀ b m D x 8) D x \$) E x 8) E x \$)
\$) d 89 /

5.12 MODBUS 23" Pb \$

* +, - . QR1 (MODBUS pq3 FQ . <= . } PLC-6N Npq/MODBUS Q
8 f < PLC F 1-31 | O* +, - . h / f < F < e7 f < • @ < L
uH . /

f < 8wF8 | < , - . 6N / < , - . r f < D7Z N { f g @ g .
Pf < /

pq* r s RS-485 z SZ
Ghi • Q 1200) 2400) 4800)

SzT fg{|

Pb.03 pql 2R 2e	\$Db 0) 100.0s 0.0s
-----------------	---------------------

开箱 0 1 2R /
0 1 2R /Ve Pb.03 \$D @* R pq @ i d j pq@
A} EF0~ ~ D

& BC*

[] F b k MqTr 2 M }

Pb.04 " 2e	\$Db 0) 500ms 5ms
------------	-------------------

开箱 fgD , - . r i @ \$D7" 2e O /

Pb.06 pqi Eeprom ' u	\$Db 0) 1 0
----------------------	-------------

0 . r. Eeprom 1 r. Eeprom

开箱

fgt(\$Dpq %fgthhi 2@ s r. Eeprom \$D 12@Vw %fgthh
i t. Eeprom \$D 02@+ % @ ~ ^ Eeprom 7i Qp fghi 7
MODBUS6 . U a K(U 0x00FF @thi Ooa EEPROM@J \$ ^_7ENTER/



Eeprom e F Eeprom 8 F? n 1 i i Fv F" # 5
\$% RAM &8' () * + , F - I " 45 Pb.06 ' 0. Z

Pb.07 CCF6@A _	\$Db 0) 1 0
----------------	-------------

0 . d@A N 1 d@A Q

开箱 fgt(\$Dpq2 s`/pq@A \$D 12@pq E@A ` / qz@A27
SZ . \$D 02@ ` /pq@A@ MN/

Pb.08 <=	\$Db 0) 1 0
----------	-------------

0 . 1 Z

开箱 fg \$D 12@, - . Z } 0x06) 0x10~ @Z . 7) __ @

& E@n. B Q 0.01Hz@n 0.1Hz@5 Qn 1Hz@VW- B @ 6h P0.17/

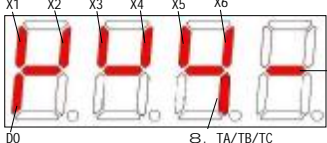
PC.05 MNEB} r/min~	\$Db 0) 1 1
PC.06 \$DEB} r/min ~	\$Db 0) 1 0

0 ~ / 1 ~ /
 开箱 PC.05 \$D 1@j l m ~ /MNEB@ ~ r/min/ \$D 0@+.

SzT fg{|

PC.19 wx } ~	\$Db 0) 1 0
--------------	-------------

0 \ / 1 \ /
 开箱 PC.19 \$D 1@+` /wx @ \$D 0@+ ` / /
 wx [fgwx X1) X6) cWW 8 GHwx D0@RcGH 8. 17 @1 (LED
 it ZD 7] Dms fgw7 @it m/J wx @] +m/J. wx
 @it x 78 @ST9: / i 5-12-1: /



5-12-1 防范OP

PC.21 W ` / ' u	\$Db 1) 20 1
-----------------	--------------

开箱 PC.21 W ` / ' u@Ofgt(\$DW #` /hi /\$D 1) 20 b PC.01) PC.20/
 \$: \$D` /hi 7` /<= 0 ` /2@ \$ \$D q c }i / x@] 20 2 g 1~
 S; @ vHW` /<= 0 7hi @` //
 W #` /hi y PC.01) PC.20 hi #@ W 2 / \$W j @A), e pq CALL` /
 2qb #s` /@L2 #` / /u(/

PC.22 EB ` / * i	\$Db 0.1) 999.9% 100.0%
------------------	-------------------------

开箱 PC.22 EB ` / * i Ofgt(EB z` / ~U@ V4EB /
 EB=V EB PC.22} PG~
 EB=120 MN- 8 i PC.22} ' PG~
 \$DEB=PID \$DEB PC.22} PG~
 \$DEB=120 \$D- 8 i PC.22} ' PG~

PC.23 kBz * i	\$Db 0.1) 999.9% 100.0%
---------------	-------------------------

开箱 PC.23 kBz * i (kBz z` / ~U@ V4EB /
 kBz =MN- PC.23} ' PG~ kBz = EB PC.23} PG~
 \$DkBz=\$D- PC.23} ' PG~ \$DkBz=\$DEB PC.23} PG~

& BC*

C~ 67 @9 DT D D DT C 67 87 () T.26.48(1688)26.4(19) T.14. T.r) T.44 Tf7. Tf7k (P)f14./F2+1 7.

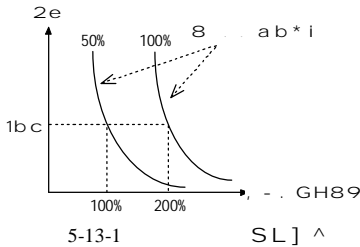
\$. ab} ab~@VW28 r, 8. 7abfg@p. Pd.01 Pd.03\$P8 IF
 8 27ab p Pd.02 Pd.04\$P \$. p /

Pd.01 8 1ab	\$Db 0.0) 10.0V 10.0V
Pd.02 8 1ab \$. GVp	\$Db 0) 4 0
Pd.03 8 2ab	\$Db 0.0) 10.0V 10.0V
Pd.04 8 2ab \$. GVp	\$Db 0) 4 0

0 wx All 1 A12(S2R4GB) S2R75GB aj)
 2 aj 3 GV
 4 pq\$D

Pd.05 8x, 8. ab	\$Db 20) 110% 100%
-----------------	--------------------

/O 2 8 VP 7 ab@ z8 f , - ! " GH8975x 6Nno/
 i 5-13-1: //



noQQ 7 Z D 8 ab*i = ! " 5x . 89 100%
 { ! " 5x . 89 8 8 7CD89/
 8 , 2Qj 7nG. x8 (10%)@ , U2@ / 8 /

& BC*

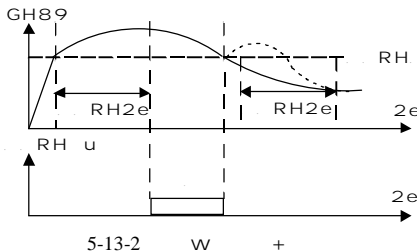
&' ~67&K . /O~67&Kq %] M23g7Pd.05~ m(&' ~ N
 ?T] PWMMd OLI N

Pd.06 , - . i deRH	\$Db 20.0) 200.0% 160.0%
Pd.07 , - . i deRH2e	\$Db 0.0) 60.0s 60.0s

/O i deRH } Pd.06~D 2 i de u789= @ { \$D J , - . CD8
 97 b /

i deRH2e} Pd.07~D 2, - . GH89# x . RH } Pd.06~# I H8D2
 e @GH i de OLP2/

i de , - . u89I . RH a#72eI . RH2e/



& BC*

1p3/ S! OA] ~gI 1" k # dR. /O3/ ?TN
2pv3/ S] M[ST&K R3/ S! OMx' ~3/ S]
0N

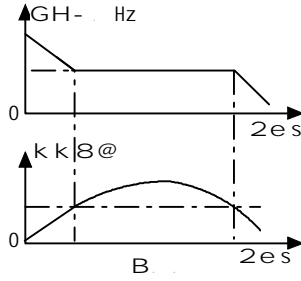
Pd.08 89y	\$Db 0) 3 1
-----------	-------------

0 1 B @ B

2 3 92- AMNBz

Pd.09 89y	\$Db G 30) 180% 160% P 60) 140% 120%
-----------	--------------------------------------

/O , - . j B L MN2@Q B2e 8 ; Q EF , @4HW > . W7
89/ . <=GH89@Pd.08' u1) 2 32@, - . GH- Qg no/
\$D. 1 2@ B2@\$GH89] 0o6D; (d) Tj /F1+3 7. 44 Tf 7. 44[6[4



5-13-5 z s i

Pd.12	GV	JR	n•	\$Db	1)	100%	100%
Pd.13	GV	JR	2e	\$Db	2)	255s	10s

开箱 fgQR GV J GVoJ 56 @Rab, -... GV Jab. 9\$@Q \$. 96 T

SzT fg{|

Pd.33	ky9x} S2R4GB F S2R75GB aj -	\$Db	100.0%) 300.0%	y	D
Pd.34	ky9 g S2R4GB F S2R75GB aj ~	\$Db	0) 1 1		

0 p 1 ! "

开箱

ky9x 100.0% . . - . CD89/ Pd.33\$D 300.0%2@Pd.33 .
ky9x D , - . CD897230.0%e @ 3i . : /
ky9 ky9fgC \$ @: Rp ; ky9fg/

y \$ B 309 mg.48 0 TD . 477.12 TD 15 f e 60 0 TD bo

PE.11	W 2e} h~	\$Db	0) 65530h 0
PE.12	(8; (MWh)	\$Db	0) 9999MWh 0
PE.13	(8; (KWh)	\$Db	0) 999KWh 0

开箱 MN2e(h) , - . MN 72e /
 W 2e(h) , - . W 2e /
 (8; (MWh) , - . (8; 7 /
 (8; (KWh) , - . (8; 7A /

PE.14	IGBTaz	\$Db	0.0) 200.0(0.0(
-------	--------	------	------------------

开箱 (` / , - . IGBT7\$ az /

PE.15	o9 az	\$Db	0.0) 200.0(0.0(
-------	-------	------	------------------

开箱 (` / , - . o9 7\$ az /

5.16 WL " PF \$

PF.00	{ } t	\$Db	0) 9999 0
-------	-------	------	-----------

开箱
 { } t \$D { } tv \$D 0@m/ tab\$D@L2(+3 7. 44 Tf 7. 4 Tj / F1

开箱

fghi \$P G/P 8*+, - . . . s+ hi . . 0 PE.02v H) hi 2 %
 hi . . . H) hi \$P G @ ^' uP t fgt\$P 1
 H) 2 5.5kWG @^\$% 7.5kW P @~^\$PPF.04=1

& BC*

ZM (n QP- rG-]M T1 [N

PF.09 * +	\$Db 0) 9999 y D
PF.10 k O	\$Db 0.00) 99.99 y D
PF.11 ' O OF	\$Db 0.000) 9.999 y D
PF.12 kB t	\$Db 0) 9999 y D

[1] 2 34

6.1 变

O* +, -. R H8 @A2@j ^_. 4` / @A@z2X PWMGH@6V@Aab @@
 AZ/[TRIP @ArxGH@8 Q /L2TRS@Ab F1; =P/ : 7
 RS =P.g @ rFB */@Ak @ 26 . @Qq p/ ^
 p. j wx /45 \$wxMN 67 @ @AD @, -. 3 g. @(T#
 WMN wX OgMN/3QR WfgW8U8w@A / HW7 SC @A@+^
 10s O! " /j @A` / ^S @A E27 7} GH-)\$D-)GH89) 9
 kk8@ ~@Rc5M E7ow@AOo@"#q / H^ 6Vfgt @ p
 f g t PE.00) PE.08 6NSC/

6-1 求和

T			Q
Uu1	kk @	| GV8@	| RS8U8@ | RSR 8 \$P ) | # B2e
OC1	BMN 89	| B2e | W/F k | 8U8@A | . . f / | . . GH W	| noV/F k\$P@ 7EF W\$P | RSGV8U | 'uf x7, -. | RS8 k 8 ; RS8 7
OC2	BMN 89	| B2e | . . Efx | . . f / | . . GH W	| # B2e | 7 = hk | 'uf x7, -. | RS8 k 8 ; RS8 7
OC3	BMN 89	| B2e\$P | 8U8@A | . . f / | . . GH	WI RS | RSGV8U/RSR 8 \$P | \$ B2e | JB @x 'uf \$x7, -. | RS8 k 8 ; RS8 7
Ou1	BMN 8@	| GV8@ | B2e\$P | JB @x A	| RSGV8U/RSR 8 \$P | \$ B2e | JB @x 'uf \$x7, -. | RS8 k 8 ; RS8 7
Ou2	BMN 8@	| GV8@ | B2e\$P | . . Efx | JB @x A	| RSGV8U/RSR 8 \$P | \$ B2e | 7 = hk | JB @x
Ou3	BMN 8@	| GV8@ | B2e\$P | . . Efx | JB @x A	| RSGV8U/RSR 8 \$P | \$ B2e | 7 = hk | -AYJ @azx
GF	GHR U	| GH rU89I *D	DRS | RS, J. P.H&7&rk sD7/
OH1/ OH3	+ , . . .	| Y`az | & - E | &[ u /78	
OL1	8 . . .	| . . . GHI 8 | W/F k | 8 8@ A | p8 # | 8 - E	| noV/F kFEF W | RS8 8@ | 'uK(8 | RS | ABx MN | x

T			Q
OL2	, - . GHI , - . . . .	| / . . @ " # B2e | 9 = ; : x | W F k | 8 8 @ A | : ; x | B2e | 89y : : A	| / . . @ " # B2e | / 9 = 89 @ " # = 2e | no V / F k F E F . W | RS8 8 @ | ' u f 6 . 4 8 e O T D () T j / F 1 6 .

6.3 变 求和

... j 8 ... E +g8@A@RS{ b ... 1; J ... =P/ ... RSF ... =P g ...
 @ F• >? H/

6-3 变 求和

		求和
8 E	8U8@ s j 8Uwx R) S) T. @CHARGE LEDZ/[s	| r p8U | W8U wp8 | RS8U8@ | nwx pl
8 E	(o9 8@m GHwx U) V) W 78@ s	| W8U wr p
	Q @8 s X	| Fa X
	^_.. @A` /@RSTRIP[s	| @A tS; m6-1
	s MNZ	| RSMNwxrk sQ
	<CE' u\$P s ScZ JK	| \$P! " CE %, ScZ
	@A wxMN s# W	| wxMN # W
8 EcJ C	- PD8@ sGV MESZ7\$D s	| RS- PD8@ | GV \$D
8 E g, B	wxU) V) W 7rk s	| no8 U) V) W 7 rk | nofgt P2.45
8 EB A	- PD8W7rk s	| % rk
	s x	| " # B2e
ME e8 EB L	5xGH- \$D s	| RS5xGH- \$D
	(o98@mRS8 wx e8@- 7 s [	| RS V/F
	s x	|
	s x	| 7,
8 x	oJ8U J	| RSoJ8U7rk J | J8U@&r AC 8 . v8U
	- PDU L	| RS- PDU
	K7) L ') Ex M	| 8
8 x	• - A	| • -
	v	| no -
	oJGH	| no | RS, - . GH

ALPHA5000PE

[5] 6789

7.1 #] 变 C

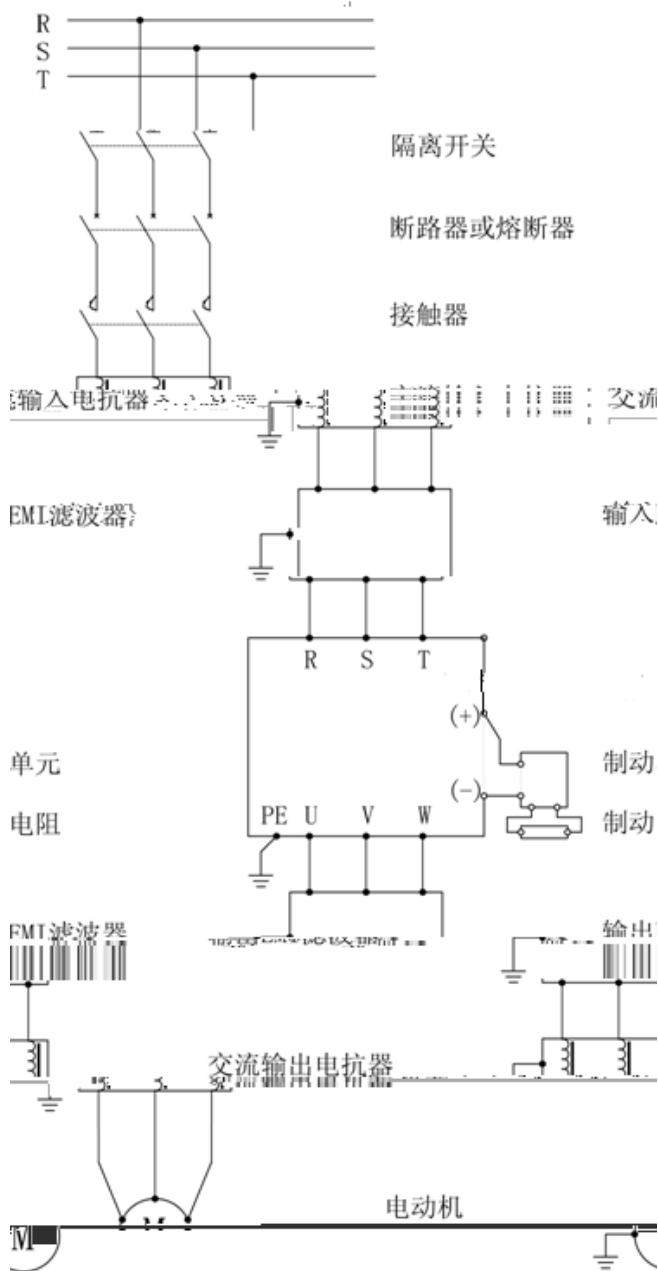
R
S
T

NW:

W. N .

U V

%# (7-1 \$2R4GB-3015GB/3018PBo#]pNO(
PB+-8



7-2 3018G/3022P #]

7.2 #] 措 开箱

7-1 l #] 措G 开箱

]/ c	度命	命	* h 命	*EMI 命	* qN q
rs	(B9 , -. 7@A89 < p, - . c{ kW@Am T8U@A	j, -. @A 29 f8U <p 8c @A 7 /	(%` G Vf . i @ - A wO • c = 8 U7	(/, -. E7 k 8KL/8 , -. eQ k N/ 20 2@ & rj 8U @Qk Nx 20 2@&rj GH ~	j = F g{ | ^• 2' (@ (x ; . c - O= B 7]

4 =* . g' k/

7.2.1 h* - 命

u9GV8 . Q =, -. GV897 wO• @s` %` , -. 7f . i @ j +67
(u98 .
I , -. : (78Uo; , -. 7o; . 10P1 R. /
I z88U. r Q<Q . = W: <=7f . i . P/
I oJ8U78@ z x} 3%-

7.2.2 qN q

O* +15kwcR , -. OP= @~ ^g = 2() ~ r = 8 /18.5kwv93kw@
Q' Q= /110kwcR. OP= @ ~g = @+~ r = /OP=
<=j b) j bcq88 /<=j b hzO*+, -. 8@ab u 6Nno@q88
j b . . , ab@ { <=rx &rvf<=gWO/
8 = . . 10%@= 8 cf. hz m
7-2 变 q cdQR

= 28 7 Eg; RS j j = 8 . , Q . Z = f.

U U; R = Pb

Z R 8

S T \$ \$

8.1.2 ^

, - . D a RS2@8D^9 8U@ l m. \ /cf 8W8UZ/[\] 5) 10 bcR @
 Og6NRS@R9, - . 78o. j 78@Gca L/
 D bRSOo. m 8-2 : //

8-2 ^

RS<Q	RSOo	c
f gWwx) <=gWw x d	d s	(del
+,	s ?@	(4) 6kg/cm ² @ 7Kf@ d g
PCB V8WX	s ?@	(4) 6kg/cm ² @ 7Kf@ d g
YZ&[	E svw@ s K) @ s @) - E	\$HYZ&[@D @F
f k	s ?@	(4) 6kg/cm ² @ 7Kf@ d g
8 8o	s, h) a) i j) >	\$H8 8o
= 8	xU s'	t= 8 qj Kf) 7US

j RS @ QF5j . k k . k@\$ QF5P rGk@s+QgmT, - . . g M
 N 6V@A` / @. vmT. k@A fW: . kIGBT>? { | . k 778/
 j - ^ ; 2@ 45 ^ z l mOg HU x7 ; 2 / +, . (Z8@m ; GV8
 @@(Z8@m ; GH8@@(l Z89m ; GV) GH89@(8 m m ; f. / j k
 2@Q1(z 8^m6N ; RRT /
 -6N*) @ (n - x 40MHz 7/ . . @ . .) 2+ . (100MHz R
 7/ . . o/ / . . (T . 8 N/
 j 8U56 oJ89 2@ 1(om (; f. /
 Q O . H) p 8 c{ 8 z @ L(} ~a L} } V
 8w 4-A 7 @ @ \$7L} . vOg. / . . k78/ ~^ L} @
 QMp7>? L6Ntu/
 f gW @ @ (T (2e) 89Q\$D7o; J\$7 @ l @O t-A %&/
 f gW @ (T t f g W w x R) S) T) U) V) W) P B (P 1)) + - . j Q W @ (8 @
 s J M 7 m) 220V s (250V@380V s (500V@660V s (1000V-6N ; / <=gW Q(
 m ; @Q(q(m8 r ; /
 380Vs7 f gW U 8 . . / 5M @<=gW U 8 . . / 3M /

8.1.3 ^ m[措命

2 , - . # Q MN@(T , - . Oj 8x . k7 (%&@D 6Na F b / ,
 - . 8x . k7 (%& { (Y ` F (k7 z z / 8 & . (2@Qq m7 * D
 \$H@s m (Y ` @ 67c , - . W 367 D /
 m 83 : / , - . 7a y () (2h /

8-3 检查命 8 m[4环

. kY	O • \$Hti
YZ&[	2) 3t
8 8o.	4) 5t
V8WX	5) 8t

8.2 /

, - . UV . . (@ ~ 2 # . . 2@
 I . . qj * D7a) . zb O u .) ?@) v@) p&' 7] : /
 I l 8t ! (@ + 6NY8 / R Of gW8 8o. 7 R / Y82
 (n@ . W , - . 7GV8@ vCD8@@p82ej 1) 2 / 2R. /
 I . . v Vt 8w/
 QF5VP @V @| tmT, - . %&- A@. v . . k78/ @QR1 (500V
 m6N ; @ { 8 . . / 4M /

[E

) EC8CD, F<I GHI N

a b Z, -. O3@a

W //O . 7a . U

w \ ^@ . I. Z[. 7

\O/

. Q b . /7@A@

I . 7tu ! ! " M

7

I I HO• * b^• (, -.

I Uw x7 yz M

I . j . A O({ ^•

7. k\ @A.

I j 6V7 } . { | .

I &r ko~ 7, -. 78

I Q UI) O1) & 1H)

[| 1HF 1HJ } 72:)f8.

I :)

I :)*))

I } 8

)f.8}

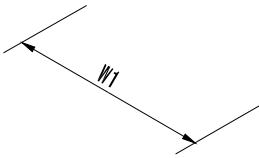
>c 3 {E&7 +(@' (;#C O /
I (upMG\$.
I ' (. P.
I)g) 8 \$.
I *d) *+ . P.
I ^ . P.
I { | (/

L O M8PQ

, #- x({ O 7 . \$) . g) . c ' . H7 @O t . \$
%/

1 / 则图





2 要

p RS

Rc		oT	oTU~ • kVA	oV A	VoV • A	W op • kW
ALPHA6000M	S2R4GB	1PH 220V 50/60Hz	1.0	5.1	2.4	0.4
	S2R75GB	8@b 176)	1.7	9.2	4.5	0.75
	S21R5GB	264V	2.8	13.1	7.0	1.5
	S22R2GB	- J / 5%	4.0	23	10.0	2.2
	3R75GB		1.6	3.7	2.5	0.75

31R

ALPHA6000E

3PH 380V
50/60Hz
8@b 304)
456V
8@J /
3%
- J /
5%

XsYZ [

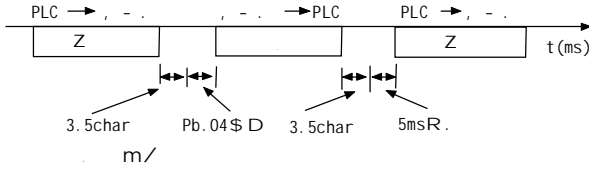
CDGH8@	0) CDGV8@
5x 89	G 150% 1bc@180% 20 P : 120% 1bc@150% 1
<=SZ	Jp: ; <=/89: ; <=
- <=b	A - >Z 0.00) 650.0Hz - >Z 0.0) 1000Hz} aj ~
- z	i Z /0.01 } -10() +40(~> Z /0.01 } 25(/10(~
\$D- b	i Z 0.01Hz > Z 1/1000 5x-
GH- b	0.01Hz
- \$D	0) 10V@0) 20mA
B2e	0.1) 3600 }) B2e \$D-
= EF	- = 8 Q] 125%
8@/-	4 ^ D V/F . Q' ucg5 V/F 7\$D@= PG V/F <=
abfg	@) @) 89y) 9)) 8x, 8.) ,) @JB) . . W) r U@ @ab@GV J@GH J@ UcJe W@8 ab
(Y` az	-10() +40(@P75.8P2 re48 Tf 9.84 0 TD () Tj /F1 TD (P75.8P2 re48 Tf 9.86 371+1 6.48 Tj 12.96 0 TD

3 MODBUS 2 3

O* +, -. Q(Q <=. } PLC-. \$ p. MODBUSpq3 6Ni uH/
 I MODBUS pq7"
 pqi k. 1| f<=. (PLC) F1) 31| 7, -. " / f<=. W @, -.
 H /
 f<=. @z 2 1| 7, -. 6N @, -. ^\$D 7U @f<=. qZD
 6N /, -. r f<=7Z @VP u@ C Pf<=. /
 I pqO•

rs	RS-485
pqSZ	
pqhi	B 1200/2400/4800/9600/19200/38400bps 'u 54R 'u 4i /5i / i #z RTU>Z D8 @ASCII>Z7) 8 Q' p RTU>Z D1 @ASCII>Z 21) 22
pq3	MODBUS RTU>Z) ASCII>Z} aj ~
Qr, -. | i	31 |

I pq&r wx 7rs
 MODBUSpq (wx 485+@485-wx /
 I rk2745; <
 (1) pqrk^ fgWrkc{| 7 k@8 kbN/
 (2) pq(Qk^(mnk@mn ^rj, -. rUwx. @ 8wu &r _/(<pKL. /-
 u)
 PLC 6Npq7
 1. j 8U9 7 @&r PLC F, -. e7pq8I /
 2. rV8U/
 3. j ^_ \$Dpq: ~7hi (Pb.00) Pb.08)/
 4. 9 8U@ ^_`/_ J/
 5. wW• 8U/
 6. 6N PLC 7pq/
 I pqhi \$D
 PLCpq2@~^\$D pq : 7hi / hi @ 3rs S S4) 5T.
 P0.03@ P0.04@ P0.07@P0.11 @P7.00@ P7.01@ P7.03@ P7.04@P8.11@ P9.19@ Pd.02@ Pd.04@
 Pb.00) Pb.08@ Pd.16
 *41: I 'u2 pq\$D p @OgtZ i VJ. 6 . @s+d 02H/
 *42: • 'uF54 'u E% @+(T • @ 7\$DOE /. F
 L{<\$P(T8T/s+ (pq pqHo/
 *43:\$, -. U \$P. 02@, -. r pqZ @ -OZ /\$, -. U >02@U
 E% Q E /
 I b yD
 -ApqKL. /7I @ 5 7pq @ jf1. @ ~^yDi b /
 a Fr i /j' u4 7SZ @({)Q 5 7pq /
 I 3 Z
 pq2f<=. (PLC) , -. HZ @, -. 6N /FZ fg) Oo z@i f, -. .



/	, - . U	Z	i Oo	CRC	2_
e 3.5charR.	1 char	1 char	n char	2 char	e 3.5charR.

i 1 (CRC-16@o h @CRC 7 S(:
 1~8 CRC-16 2v 0@pq w* +7v \$D 1/(16 1)
 2~q, - . U 7 LSB MSB@5 7i MSB (LSB CRC-16/
 3~, - . 7 Z 3^ CRC-16@ Z 7 CRC-16 6N /

2) MODBUS-ASCII > Z

(ASCII > Z @ 2 } : ~ A } ASCII t 3AH ~ @ 3 g HNA } ASCII t 0DH, 0AH ~ /
 2 F 3 @QR (7 G A 6 = 70) 9 @ A) F } x ~ @ j RASCII t SZ
 @ # 4 @ A4 / i 1 (LRC @ , - . U) Z) i Ooh @
 : h i 7 AF } 456 ~ 7 t / 8 _ 2e5# gl . 1 @s + t
 n Go ~ / V4 " 2 / 1ms / 8 : /

/	, - . U	Z	i Oo	LRC	2_A
1 char} 3AH~	2 char	2 char	n char	2 char	2 char} 0DH@0AH~

def \

, - . U (0) 31) @\$D 02@ ghZ @ _ /

I Z

O* +, - . # 7 MODBUS Z R 4 ^

Z (16)	fg	Z #z		#z		#z	
		5/ i	5x i	5/ i	5x i	5/ i	5x i
03H	H R	8	8	7	7	5	5
06H		8	8	8	8	5	5
08H	gY	8	8	8	8	5	5
10H	V R	11	11	8	8	5	5

I ^ _ ` aH

16

[03H]

; Z : ZD7 @ ; 1 7 ROo/ ROob . 8 FA 8 @q
 . Oo78j b/
 ; 1 , - . 7 /

RTU> Z

Z	Oo	Oo	Oo
	01	01	01
	03	03	83
	00	02	03
	20	00	01
	00	C1	31
	01	79	
CRC	85	D4	
	C0		

45 i i U i 72

ASCII> Z

Z 3A 3031 3033 3030 3230 3030 3031 4442 0D0A } LRC DB~
 3A 3031 3033 3032 3030 4331 3339 0D0A } LRC 39~
 3A 3031 3833 3033 3739 0D0A } LRC 79~

[06H]

V Z ZD6 . . @j ZD76 . . . ZD7i @ . i (Tj R
 @q 8 @A 8 7 k+Z Oo/
 • 1 , - . MN/

RTU> Z

Z	Oo	Oo	Oo
	01	01	01
	06	06	86
	00	00	02
	01	01	C3
	00	00	A1
	01	01	
CRC	19	19	
	CA	CA	

ASCII> Z

Z 3A 3031 3036 3030 3031 3030 3031 4637 0D0A } LRC F7~
 3A 3031 3036 3030 3031 3030 3031 4637 0D0A } LRC F7~
 3A 3031 3836 3032 3737 0D0A } LRC 77~

[08H]

gW Z Z Ootb\R . } ZC @(f <= . , - . e7 / @i Q
 (g5 /
 gWC

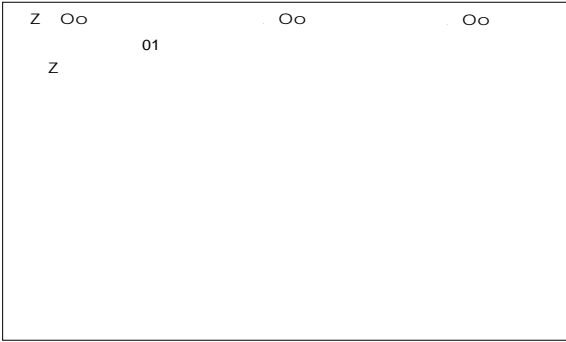
RTU> Z

Z	Oo	Oo	Oo
	01	01	01
	08	08	88
	00	00	03
	00	00	06
	12	12	01
	34	34	
CRC	ED	ED	
	7C	7C	

ASCII> Z

Z 3A 3031 3038 3030 3030 3132 3334 4231 0D0AA03

RTU> Z



hi a [GVZ]} Q V~

R	Y	Oo	\$Db	v
00FFH	GVZ	f gym MODBUSU	0100H) 0FFFH	7

06 F10 Vi Z @I ti VRAM MN@ OwMN / 8 • @+. w V
 7i / ~ 8 V L Z

fgtmhi (6= DEC)	Modbus 6 . U (6= HEX)
PF.00) PF.12	1000H) 100CH
(hi 89())	(1100H) FFFFH)

I Modbus U tS (:
h fgtm fgt @ 8 HI=fg h 1. A 8 L0=fgt .{ |! +s6 . U aj /

I 86m

	Oo
01H	Z o~ Z j 03H@08H@10H R /
02H	6 . U o~ 6 . U @1 !: / ; ENTER nK(6 . [0x00FFH] ! j fgt \$D @Wp U 7pqf g/ 41~ i o~
03H	V7i i . j 1 R. 16 R V03

5 检查命 N

检查命 N

(} Y	
(} U	
*	8=
>	?
Uw t ^	@A t ^

@A 7

8 KW	8 (
@A E2e V8U d	{ |
@AW	
@A` / OC OL OU OH LU	{ |
(<=wx	
MN Q Q	GH8@
u2e:	/2 @A-

] 67

8U8@ U-V V@ V-W V@W-U V
, @. o; KVA , - . r U
v8U N m v8 N m
8 @@ 8 [
{ | 67