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:ADBD2020R_2020042307594920200423080255101722566646

:2020-04-23 08:02:55

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⋮
⋮

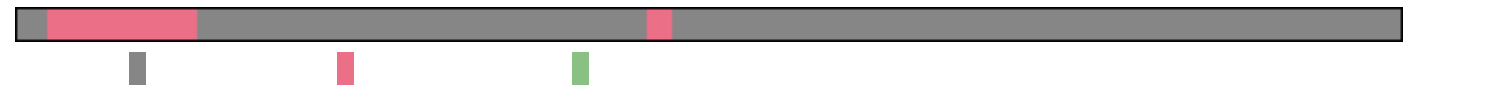
/

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() Springer Taylor&Francis)

CNKI -

: 1900-01-01 2020-04-23

	12.1%	0%	
引	12.1%	12.1%	
单	6.2%	--	
[538]		[4449]	[276]
[1]		[456]	[538]
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0		0	0



1.		4449
	12.1% (538)	12.1% (538) (0)
1	--	6.2% 276
	- 2019-05-20	
2		6.1% 271
	- 2018-04-20	
3	PLC	6.0% 268
	- 2018-07-05	
4	PLC	5.3% 235

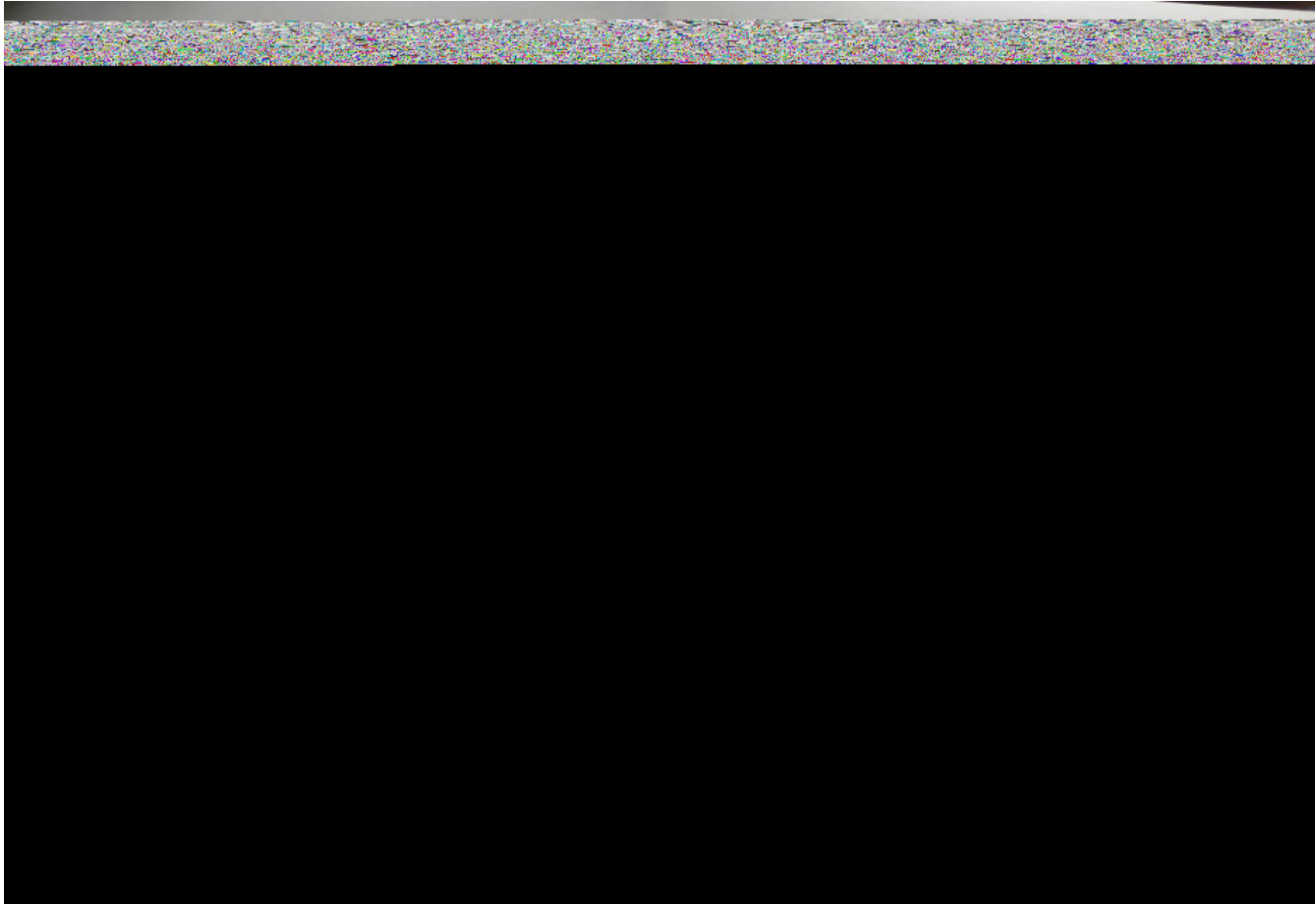
	-	- 2018-05-22		
8			4.5%	200
		- 2014-08-15		
9	_081001010423_ M4		4.2%	188
		- 2012-05-28		
10			4.2%	188
		- 2012-06-05		
11	SPWM		3.5%	155
		- 2018-05-11		
12	SPWM		3.5%	155
		- 2018-05-14		
13	SPWM		3.5%	155
		- 2018-05-15		
14			3.3%	145
	()-	- 2019-03-01		
15	SPWM		2.8%	126
		- 2013-03-20		
16	SPWM		2.8%	126
		- 2014-12-05		
17			2.4%	108
	()-	- 2019-05-01		
18			1.9%	84
	()-	- 2019-05-01		
19	_21096673_		1.8%	81
		- 2013-05-24		
20	H		1.8%	80
	()-	- 2018-06-30		
21	PLC		1.8%	80
		31 - 2019-10-11		13
22			1.8%	78
	(;)-	- 2019-01-04		
23			1.6%	71
	(;)-	- 2016-06-01		
24			1.3%	57
		- 2013-05-15		
25			1.1%	47
		- 2018-08-25		



湖南石油化工职业技术学院
Hunan Petrochemical Vocational Technology College

SPWM

3171



.....2
.....5
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17
2 I/O8
38
49
()11
.....11
.....13
.....15
SPWM

SPWM	PLC	PWM
SPWM Sinusoidal Pulse Width Modulation		
UPS	SPWM	SPWM
PLC	Programmable Logic Controller)	
	/	
	PLC	
PLC		

PLC

1

// /

//

a SB1, M1 M2 SB2 M1 M2
 b : M1 M2 5S

c

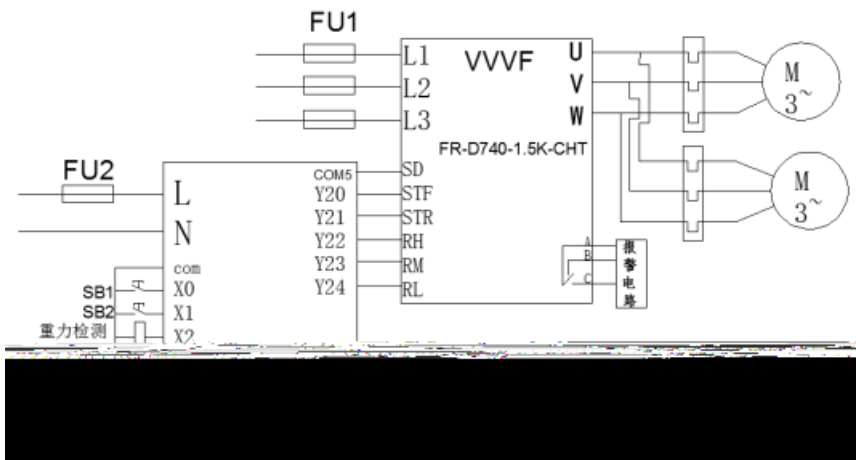
1

2 SPWM

PLC

()

1



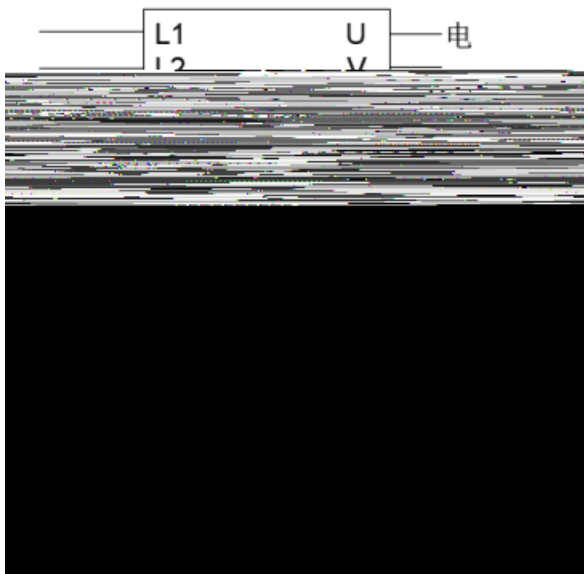
4

2

4

PLC

3



5

CPU LSI

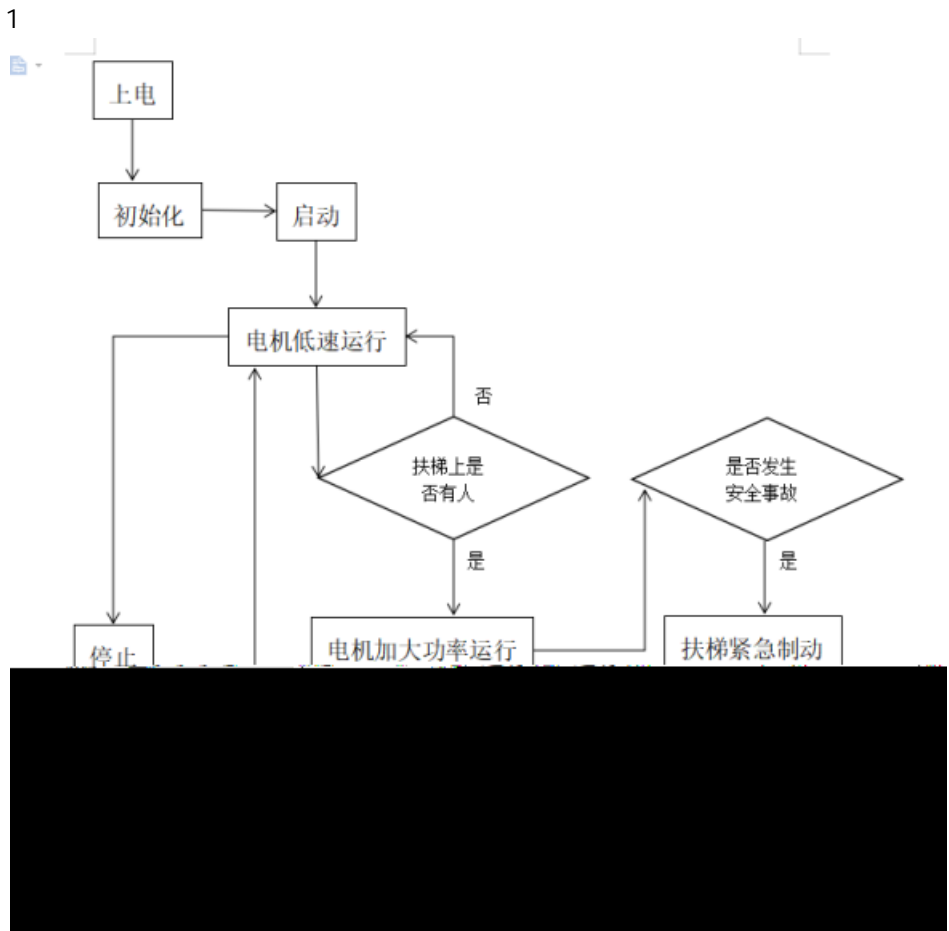
A B A C

LED

1

2	SB1 SB3	LA3Y-11	4
3	HL	LTE-1101J/380V	1
4	HA	AD16-22SM	1
5	QF	DZ47LE-32 C25	1
6	FR	JR36B-20	2
7	VVVF	FR-D740-1.5K-CHT	1
8	PLC	FX2N-48MR	1

1 M Y2-160L-4/15KW 2
 2 SB1 SB3 LA3Y-11 4
 3 HL LTE-1101J/380V 1
 4 HA AD16-22SM 1
 5 QF DZ47LE-32 C25 1
 6 FR JR36B-20 2
 7 VVVF FR-D740-1.5K-CHT 1
 8 PLC FX2N-48MR 1



6

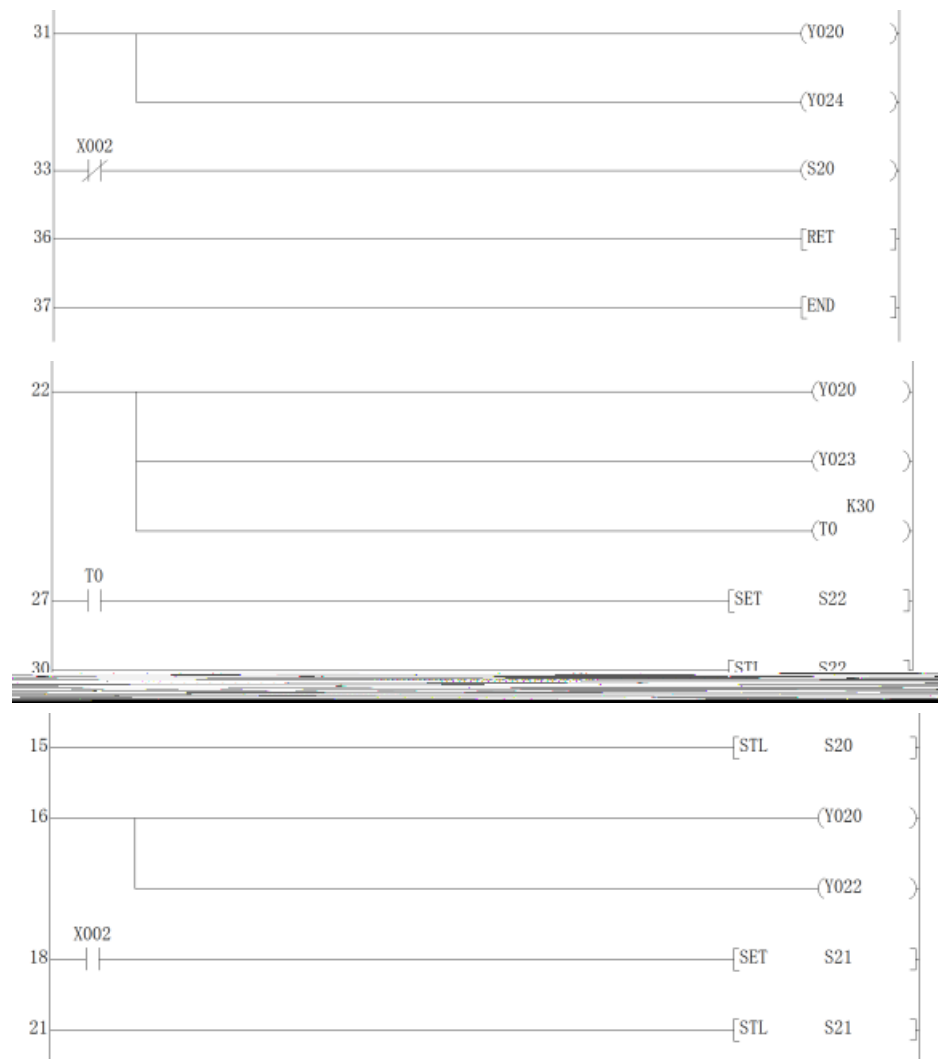
2 I/O

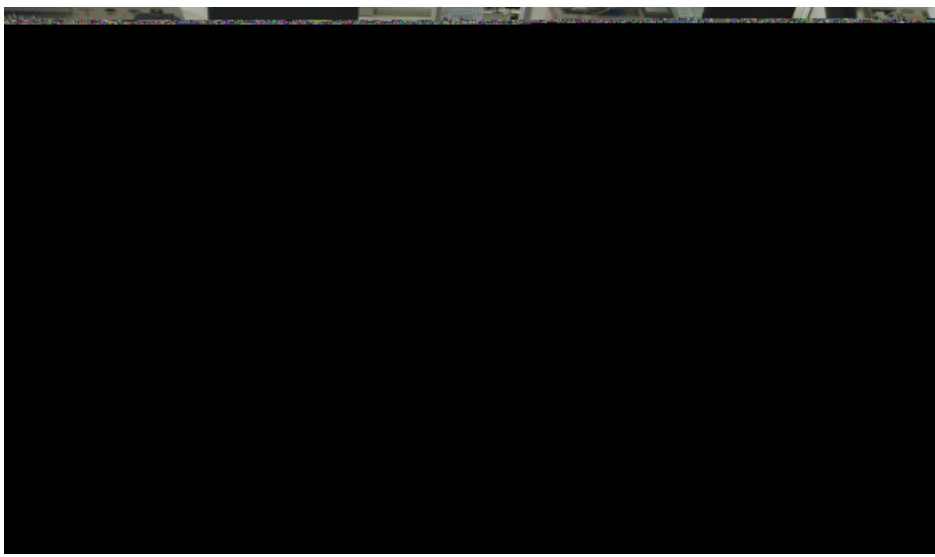
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	SB2		X1
			X2
	FR1	1	X3
	FR2	2	X4
	STF		Y20
	STR		Y21
	RH		Y22
	RM		Y23
	RL		Y24

SB1 X0
 SB2 X1
 X2
 FR1 1 X3
 FR2 2 X4
 STF Y20
 STR Y21
 RH Y22
 RM Y23
 RL Y24
 3

Pr.3	50Hz	
Pr.4	20Hz	
Pr.5	40Hz	
Pr.6	50Hz	
Pr.7	2S	
Pr.8	1S	
Pr.79	0	

Pr.3 50Hz
 Pr.4 20Hz
 Pr.5 40Hz
 Pr.6 50Hz
 Pr.7 2S
 Pr.8 1S
 Pr.79 0
 4





SPWM PLC SPWM

PLC

1 PLC SPWM

2 PLC

3 PLC CAD

PLC

PLC SPWM PLC PLC

PLC PLC PLC PLC PLC

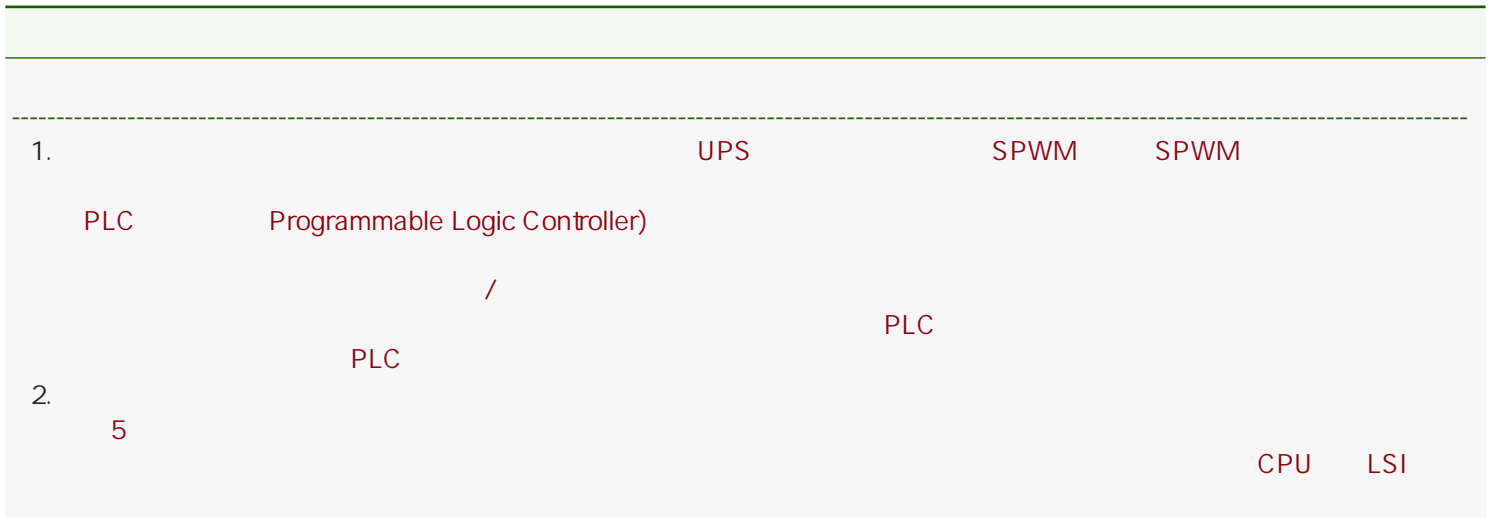
PLC PLC PLC PLC PLC

PLC PLC PLC PLC PLC

PLC PLC PLC PLC PLC

1 PLC
 2
 3

1 . PLC . {J} 2006.05 16-17
 2 CAD 2015.3
 3 2014.8
 4 FX PLC 2016.10
 5 ,2009.7
 6 ,2009.9
 7 ,2011.9
 8 2012.
 9 PLC { 2014-12-11}



1.
 2.
 3.
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 6. ; ;
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 📺 <http://e.weibo.com/u/3194559873/>