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PROFIBUS 5

GDHF-DP03 6

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PROFIBUS 10

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PROFIBUS 12
..... 16
.....16
PROFIBUS-DP 16
PPO 16
.....17
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LED 25
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PROFIBUS 26
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PROFIBUS 29

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PROFIBUS-FMS Fieldbus Message Specification

PROFIBUS-DP Decentralised Periphery PROFIBUS-PA Process Automation PROFIBUS DP GDHF-DP03

PROFIBUS-DP

RS-485

100~1200

31

PROFIBUS

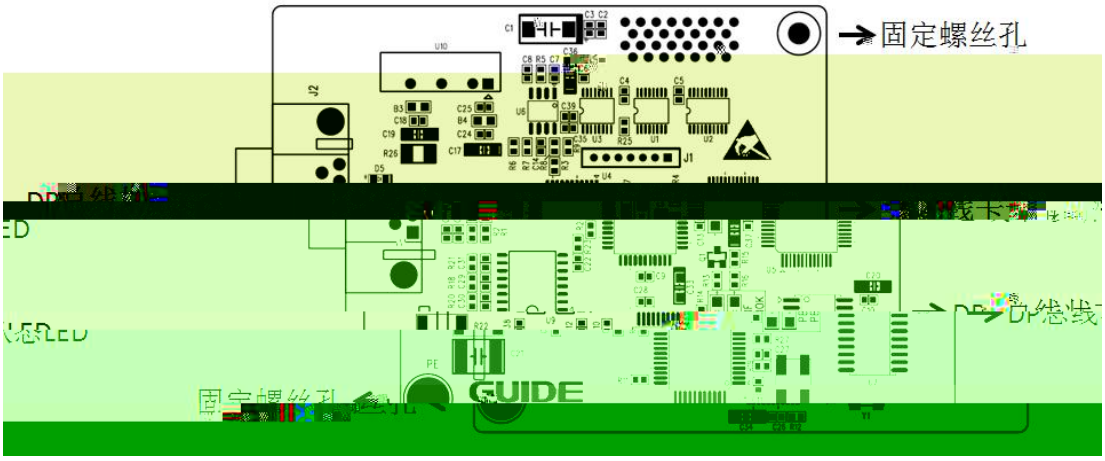
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PLC ——

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GDHF-DP03



1 GDHF-DP03

PROFIBUS DP DP03 HF600

PROFIBUS PROFIBUS

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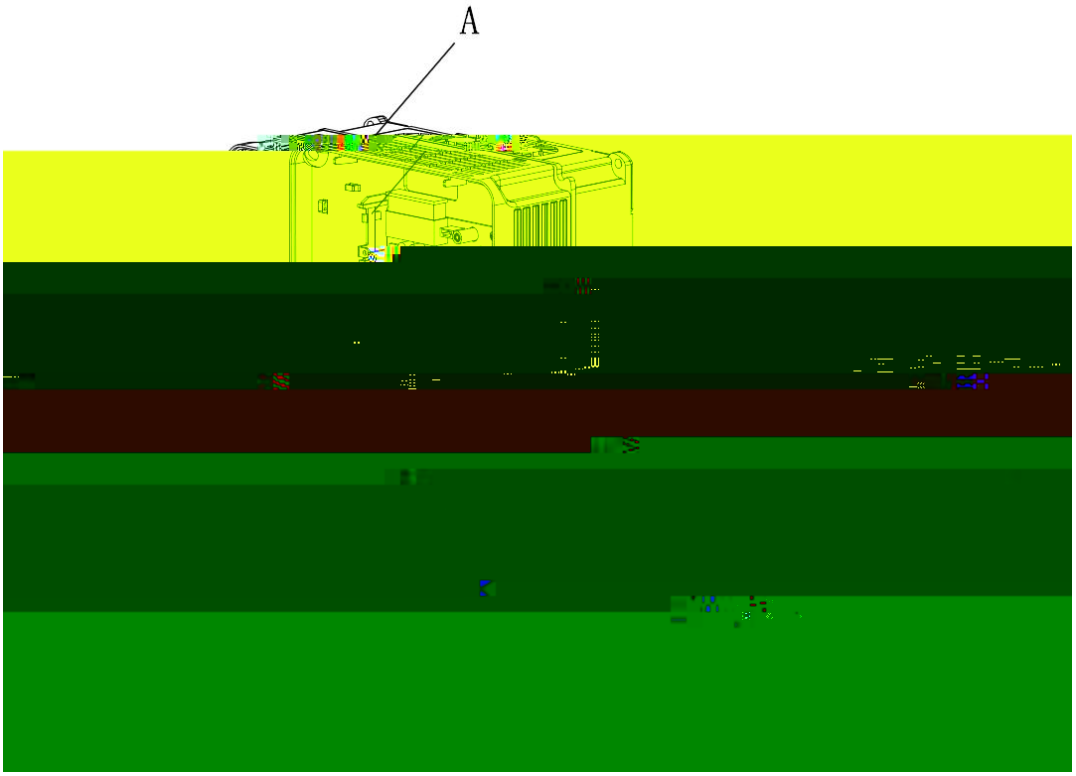
PROFIBUS DP GDHF-DP03

- HF650
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- HF620
- PROFIBUS-DP

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15KW DP

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B1	B
A1	A
PE	PROFIBUS
B2	B
A2	A
PE	PROFIBUS

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PROFIBUS DP GDHF-DP03

PROFIBUS DP

GDHF-DP03

(GSD)

http://www.gdetec.com GSD

GUIDE_PB.GSD

PROFIBUS

GDHF-DP03

PROFIBUS

1 PROFIBUS

P33.0	Profibus	[0] [1]	0 1	0
P33.1		PLC	1 255	1
P33.2		[0]PPO1 [1]PPO2 [2]PPO5 [3]GUIDE	0 3	2
P33.3			0 16	14
P33.4			0 16	14
P33.5		[0] [1] [2] [3]	0 3	0
P33.6		ms	0 1000	50
P33.7		[0] [1]	0 1	0
P33.8		s	0.0 10.0	3.0
P33.13	[WO]		0 1000	0
P33.14	[WO]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000	0 4	0

…	…	…	…	…
P33.45	[WO]		0 1000	0
P33.46	[WO]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000 [5] [%] × 1 [6] [%] × 10 [7] [%] × 100	0 4	0
…	…	…	…	…

1. PROFIBUS

[0] PROFIBUS

[1] PROFIBUS

2.

PROFIBUS

3. PPO

PROFIBUS PPO

5 PPO

4.

PPO [PPO1] 6 words in 6 words out

[PPO2] 10 words in 10 words out [PPO5] 14 words in

14 words out [GUIDE] 16 words in 16 words out

5.

PPO [PPO1] 6 words in 6 words out [PPO2] 10 words in 10 words out [PPO5] 14 words in 14 words out [GUIDE] 16 words in 16 words out

6.

HF600

7.

PLC

8.

HF600

9.

PLC

10.

PROFIBUS DP GDHF-DP03 PROFIBUS 9.6 kbit/s 19.2 kbit/s 45.45 kbit/s 93.75 kbit/s 187.5 kbit/s 500 kbit/s 1.5 Mbit/s 3Mbit/s 6 Mbit/s 12 Mbit/s GDHF-DP03

PROFIBUS

PROFIBUS-DP

PROFIBUS DP GDHF-DP03

PROFIBUS-DP PROFIBUS-DP I/O

PROFIBUS-DP PPO

Parameter/Process Data Objects /

PPO

PPO

	W0	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13
PPO1	W0	W1	W2	W3	W4	W5								
PPO2	W0	W1	W2	W3	W4	W5	W6	W7	W8	W9				
PPO5	W0	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13

4 PPO

PLC

2

		bit			
				‘0’	
		0	PA_ENABLE		
				‘1’	
	PA_CTRL	1	WRITE	‘0’	
WO				‘1’	
				‘0’	
		2	SAVE_to_FLASH	‘1’	FLASH
		3 ~ 15	Reserved		
W1	Address	byte	[15..08]	[07..00]	
		Data			

PLC

3

W0	PA_STATUS	bit		
		0	Reserved	
		1	Reserved	
		2	SAVE_to_FLASH	‘0’ ‘1’ FLASH
		3	ILLEGAL_ADDRESS	‘0’ ‘1’
		4 ~ 15	Reserved	
W1	Address	byte	[15..08]	[07..00]
		Dat		

		a		
W2	0	0		
W3	Data	16		

4

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4 5

HF600

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CW0.0	RUN	‘0’ ‘1’

CW

2

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SW0.0 READY

SW0.1 RUN

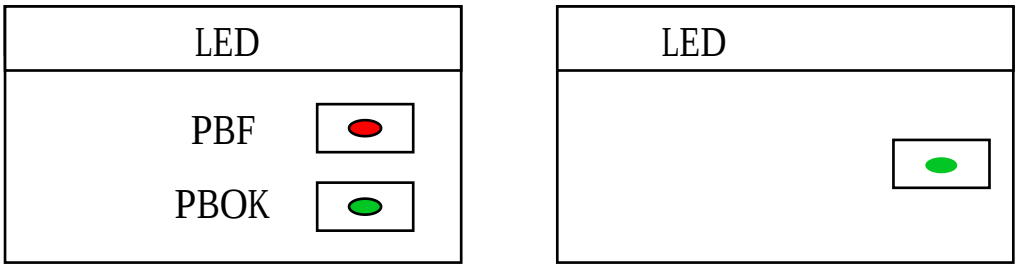
SW0.9	M_STEP3	4 ‘0’ ‘1’	4 4
SW0.10	Reserved		
SW0.11	Reserved		
SW0.12	REMOTE/LOCAL	/ ‘0’ ‘1’	
SW0.13	Reserved		
SW0.14 SW0.15	MOTION SEL	‘00’ ‘01’ ‘10’ ‘11’	1 2 3 4

LE

DP03 ED 1

L LED GDHF-E

≤ LED ≤



PROFIBUS

16

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GSD ASCII

PROFIBUS

GSD

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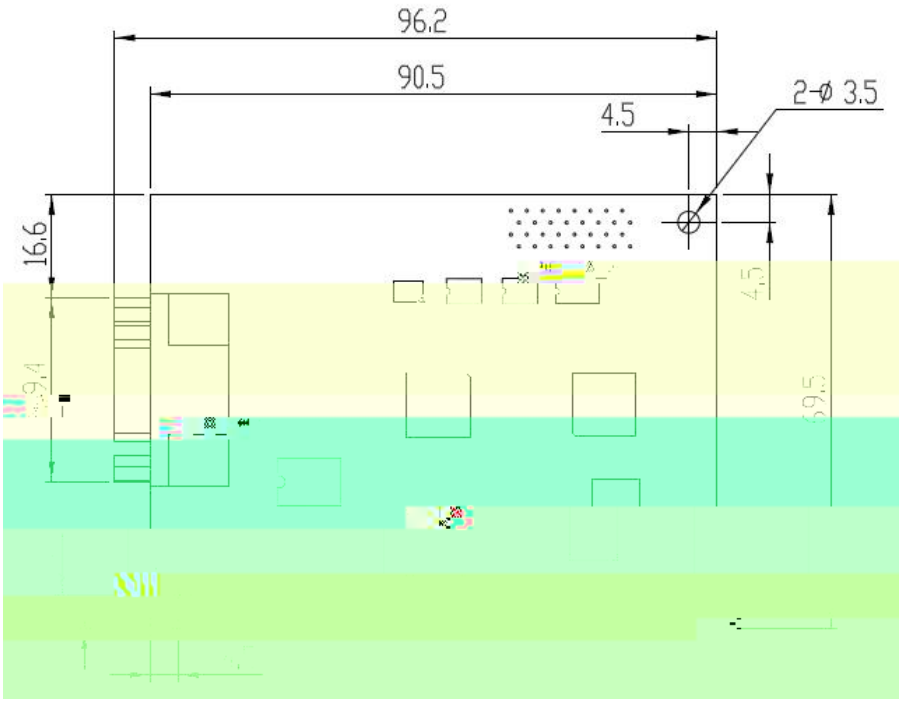
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RS-485

	A PROFIBUS DP	B DIN 19245 Part1	
	135~165(3~20MHz)	100~130(f>100kHz)	W
	<30	<60	pF/m
	<110	--	Ω/km
	>0.64	>0.53	mm
	>0.34	>0.22	mm^2

(kbit/s)	≤ 93.75	187.5	500	1500	3000	6000	12000
A(m)	1200	1000	400	200	100	100	100
B(m)	1200	600	200	--	--	--	--

9.6kbit/s 19.2kbit/s 45.45kbit/s
93.75kbit/s 187.5kbit/s 500kbit/s
1.5Mbit/s 3Mbit/s 6Mbit/s 12Mbit/s

PROFIBUS-DP

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