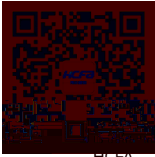




5
Headquarters: No. 5, Goodwill Road, Longyou Industrial Park, Quzhou City, Zhejiang Province

299
Hangzhou R & D Center: No. 299 Lixin Road, Qingshanhu Street, Hangzhou City, Zhejiang Province

EtherCAT®



HCFA



ATC

2026

X5-SERVO

进阶交流伺服驱动样本

EtherCAT

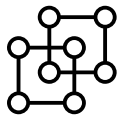
PROFINET

CONCEPT



HCFA
— 禾川科技 —





丰富的运动控制总线

X
EtherCAT
PROFINET
CANopen



简单易用!



安全可靠!

DB(DynEmiI BrEkL)
STO(SEfL TorquL Of)

SV-X5 E B 040 A - A 0 - 00

1 产品系列

2 机型	
E	
F	

3 控制类型	
A	
B	EtherCAT
N	CANopen
R	PROFINET

4 驱动功率	
010	100W
040	400W
075	750W
100	1KW
150	1.5KW
200	2KW
250	2.5KW
300	3.0KW
500	5.0KW
750	7.5KW

5	
A	220V
T	380V

6	
A	

7	
0	

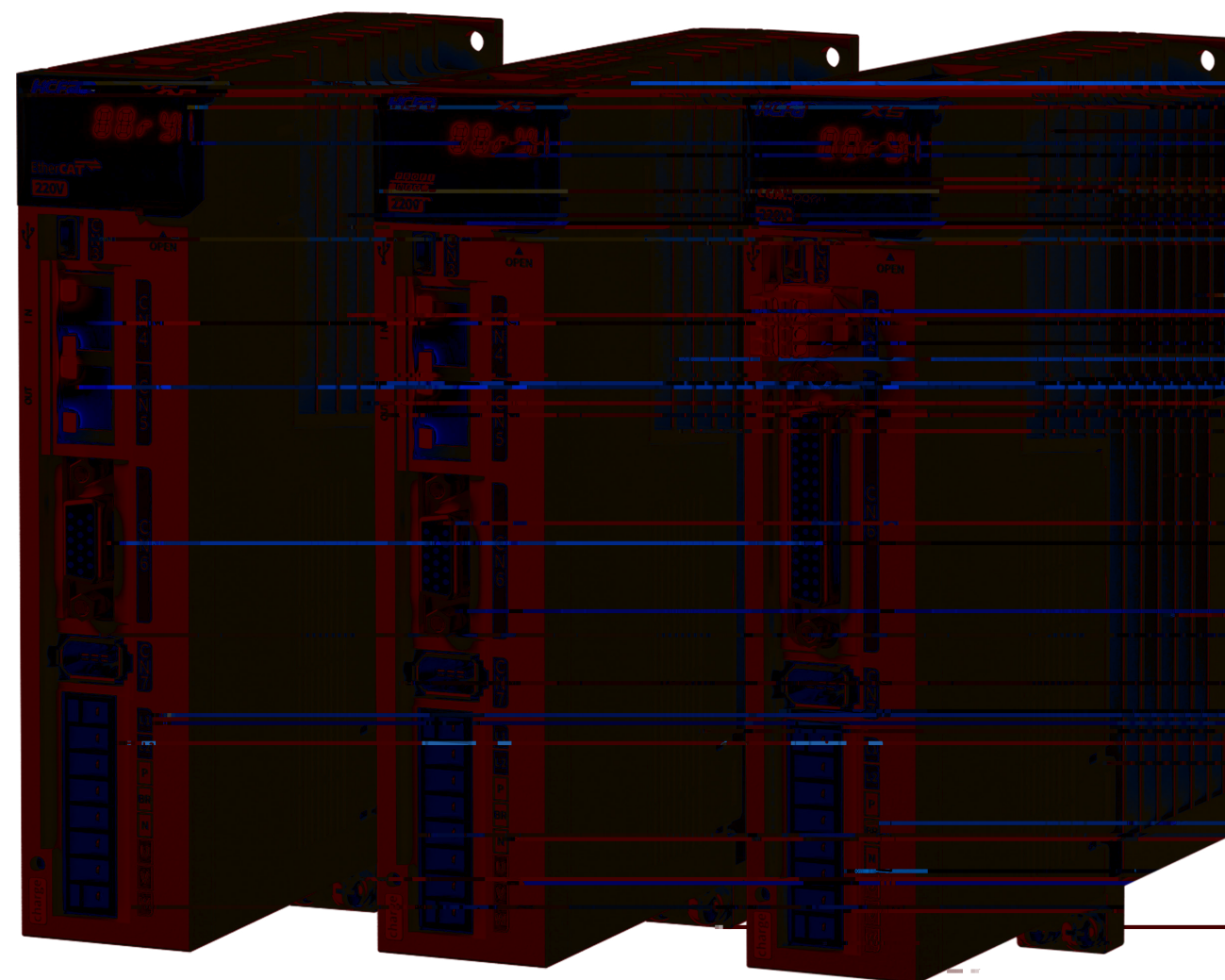
8	
00	
CO	EB FB
GS	FA

• AC220V 100W 2.5KW

• AC380V 2KW 3KW 7.5KW

丰富的 运动控制总线

采用核心自研芯片，除主流的 EtherCAT 通讯方式外，X5 进阶型伺服系统还支持 CANOPEN、PROFINET 通讯，可与各种控制系统灵活搭配。



EtherCAT®

PROFI[®]
NET

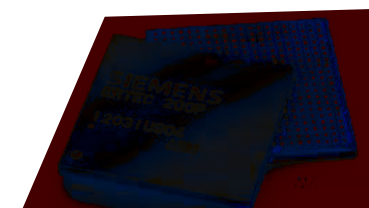
CAN[®]
OPEN

X5 FR

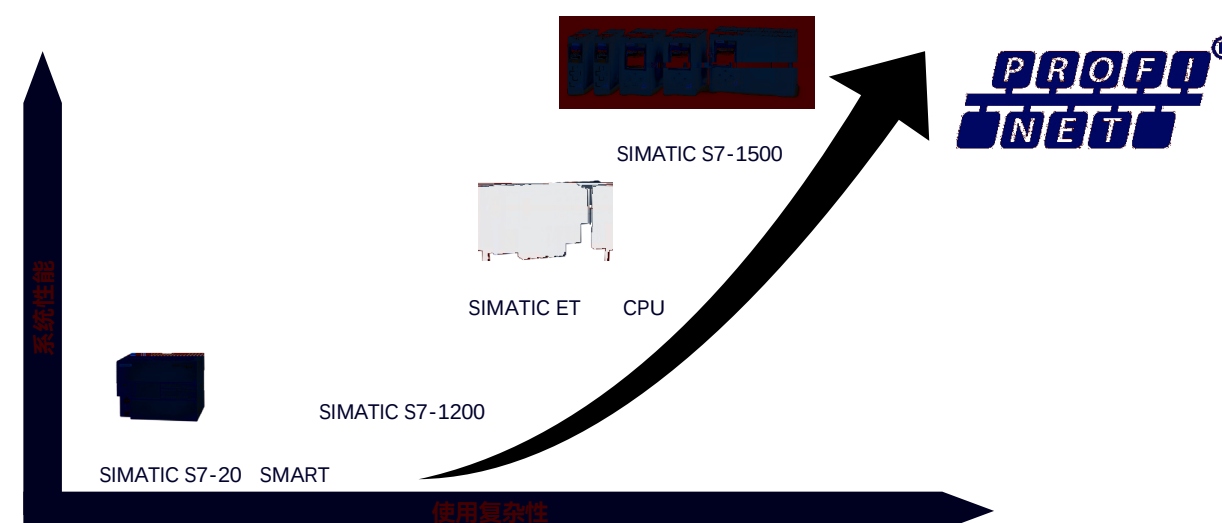
PROFINET 总线伺服

满足市场对 **PROFINET** 总线生态的产品需求

- 采用西门子公司ERTEC200P专用芯片方案
- 具有更广泛的功率和电机机种选择
- 具有更高的控制精度，最大可达23BIT分辨率
- 多样的报文选择，可实现各种控制方式



报文	标准 报文1	标准 报文2	标准 报文3	西门子 报文102	西门子 报文105	西门子 报文110	西门子 报文111	西门子 报文750
是否支持	✓	-	✓	✓	✓	-	✓	✓



- 遵循标准PROFIDRIVE行规，无论是简单的单轴控制，还是复杂的多轴同步运动控制，X5PN系列可完美适配S7-200 Smart、S7-1200、S7-1500 与 Simotion 等西门子PN总线PLC。
- 更小同步周期，最小同步周期达500us，实现精准的伺服过程控制

传输距离

100
米

实时通讯

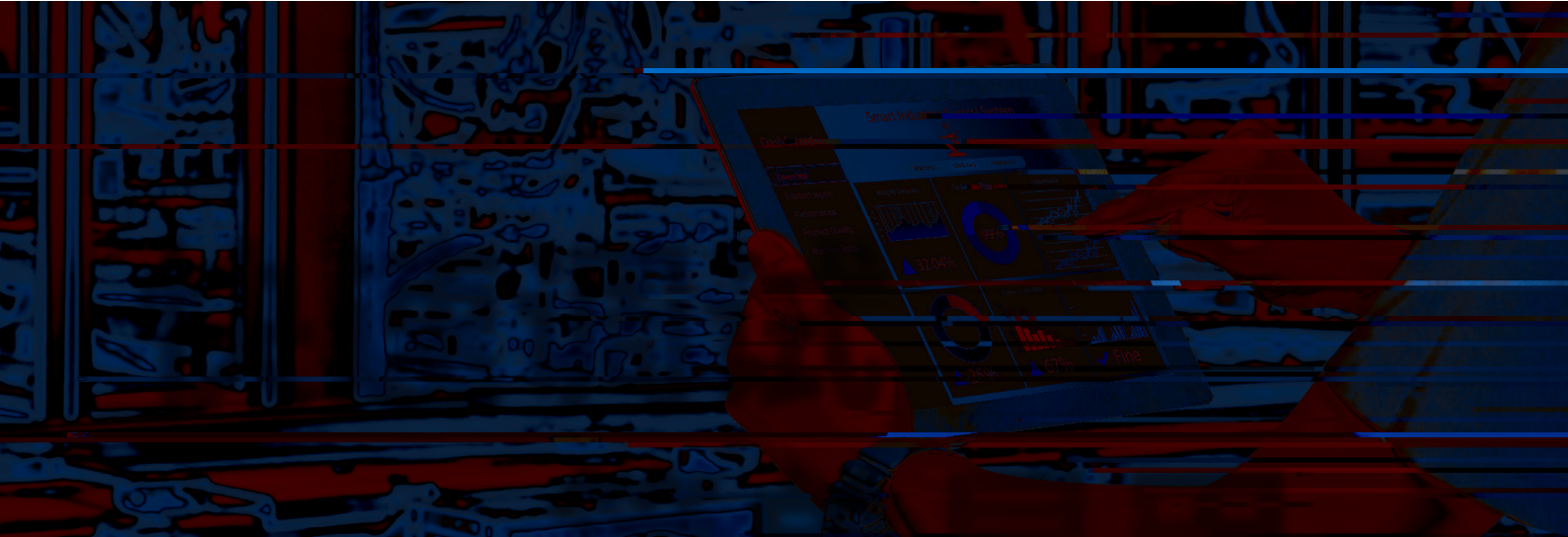
RT

等时通讯

IRT

同步周期

500
μs



间早勿用

P .

P . ~

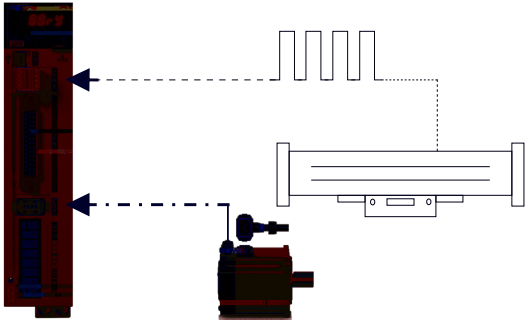
P .

Smart Factory			
Line	Station	Operator	Status
1	1	John	Running
2	2	John	Running
3	3	John	Running
4	4	John	Running
5	5	John	Running
6	6	John	Running
7	7	John	Running
8	8	John	Running
9	9	John	Running
10	10	John	Running

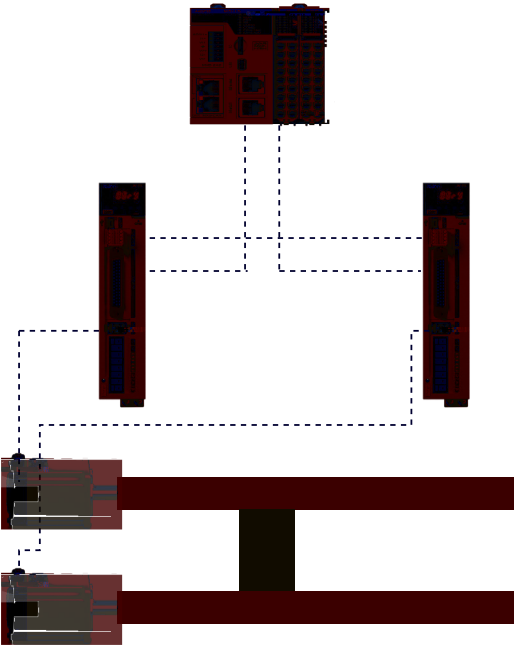


Smart Factory			
Line	Station	Operator	Status
1	1	John	Running
2	2	John	Running
3	3	John	Running
4	4	John	Running
5	5	John	Running
6	6	John	Running
7	7	John	Running
8	8	John	Running
9	9	John	Running
10	10	John	Running

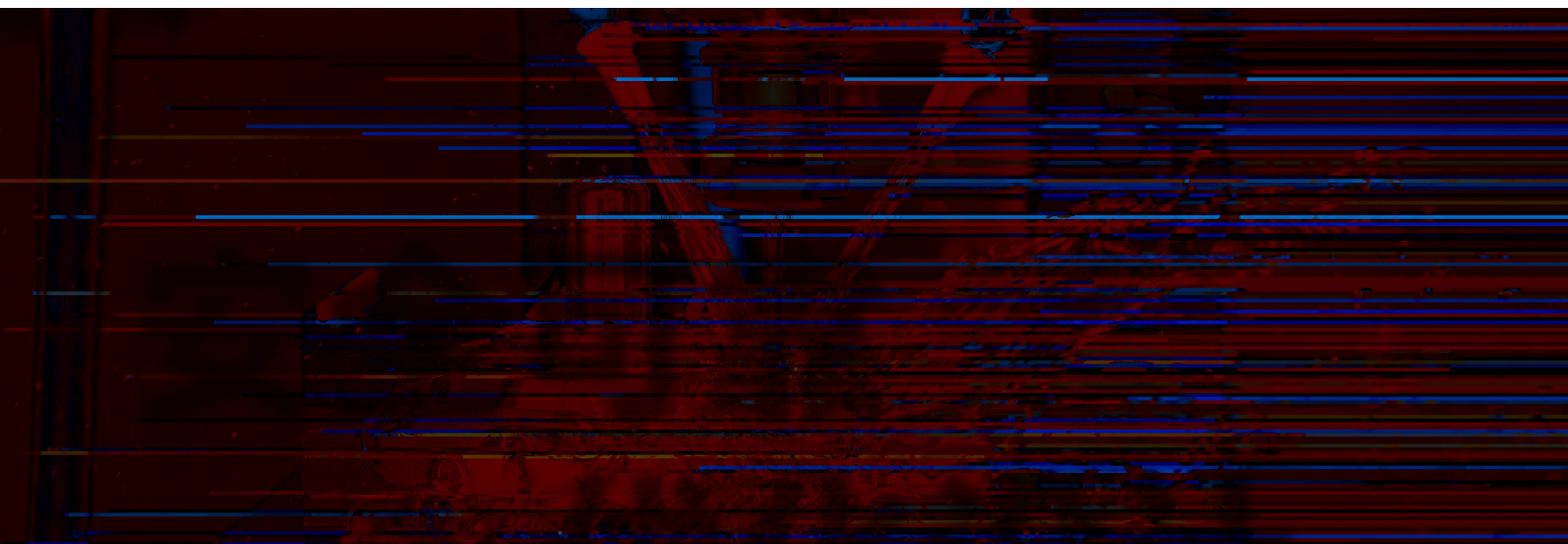
FA



FA



	5V	
	GND	
CN1	A+	5M 4
	A-	
	B+	
	B-	
	PE	



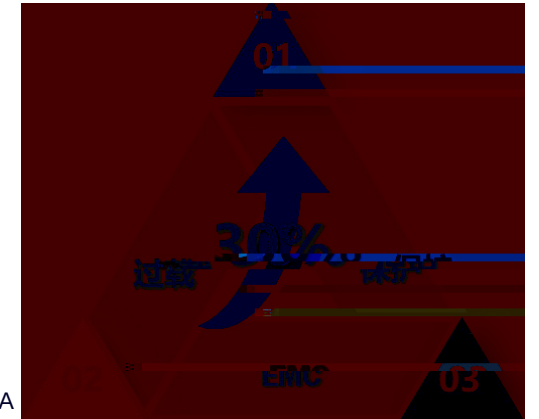
优化设计

EMC

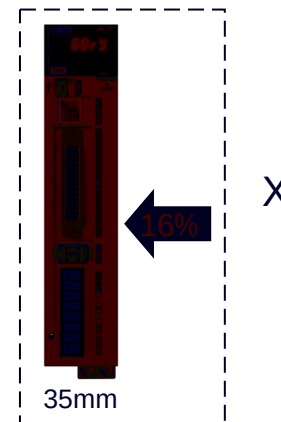
EMC

30%

EMC
X E
W
X
mA
mA

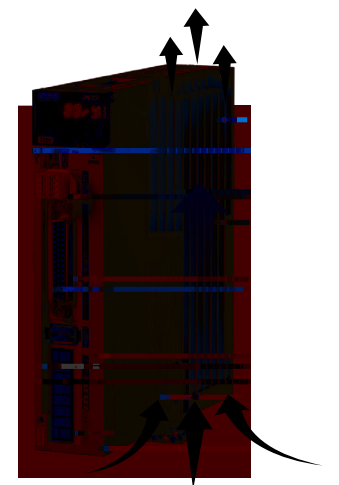


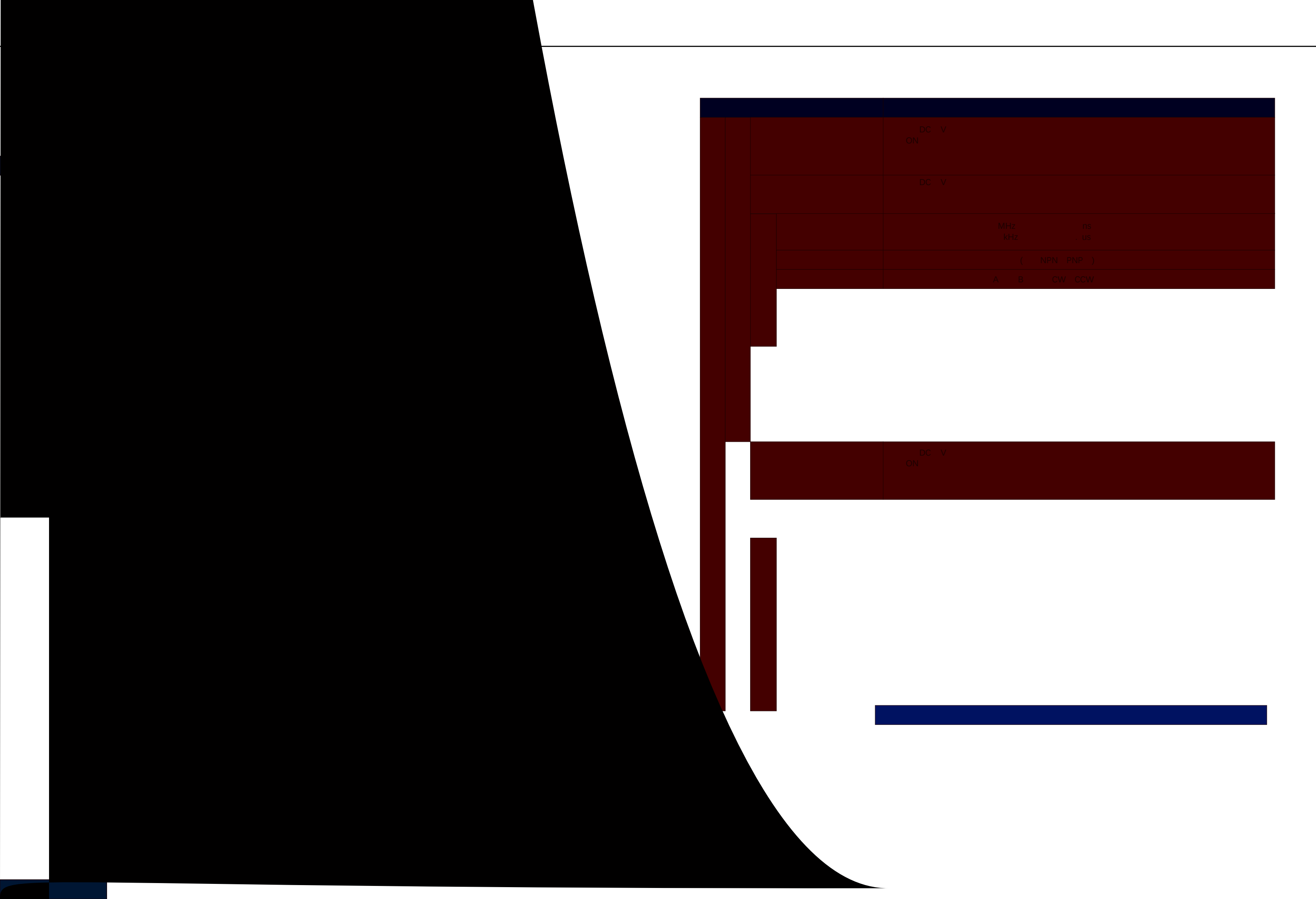
DB Dynamic Brake



W
16%

STO Safe Torque Off





			DC V ON
			DC V
			MHz ns kHz . us
			(NPN PNP)
			A B CW CCW

DC V	
ON	



■ AC220V 基本规格

SV-X E□***A-A - IE1		010	040	075	100	150	200	250
W		100	400	750	1000	1500	2000	2500
Arms		1.2	3	4.5	6	10	12.5	15.6
Arms		3.6		13.5	18	30	37.5	37.5
		~ V ~ Hz				~ V ~ Hz		
	(Ω)	-	-	-	-	40	40	40
	(W)	-	-	-	-	100	100	100
	(Ω)	≥	≥	≥	≥	≥	≥	≥
		III						

注：□内标识控制类型，A为脉冲型，B为EtherCAT，N为CANopen，R为PROFINET

■ AC220V驱动器型号规格表

			EtherCAT	CANopen	PROFINET		
0.1	SV-X □A A-A -	SV-X □B A-A -	SV-X EN A-A -	SV-X FR A-A -	AC V		
0.4	SV-X □A A-A -	SV-X □B A-A -	SV-X EN A-A -	SV-X FR A-A -			
0.75	SV-X □A A-A -	SV-X □B A-A -	SV-X EN A-A -	SV-X FR A-A -			
1	SV-X □A A-A -	SV-X □B A-A -	SV-X EN A-A -	SV-X FR A-A -			
1.5	SV-X □A A-A -	SV-X □B A-A -	SV-X EN A-A -	SV-X FR A-A -	AC V	AC220V	
2	SV-X □A A-A -	SV-X □B A-A -	SV-X EN A-A -	SV-X FR A-A -			
2.5	SV-X □A A-A -	SV-X □B A-A -	SV-X EN A-A -	SV-X FR A-A -			

注：□内E为标准型、F为全功能型

■ AC380V 基本规格

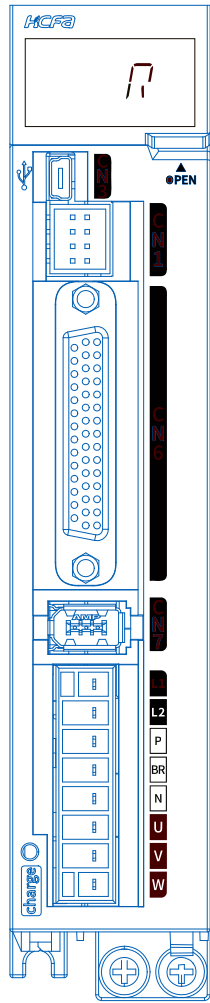
SV-X E□***T-A -		200	300	500	750
W		2000	3000	5000	7500
Arms			12	17	26
Arms		22.5	30	42.5	65
		~ V ~ Hz			
	(Ω)	50	50	35	35
	(W)	80	80	100	100
	(Ω)	45	40	35	25
		III			

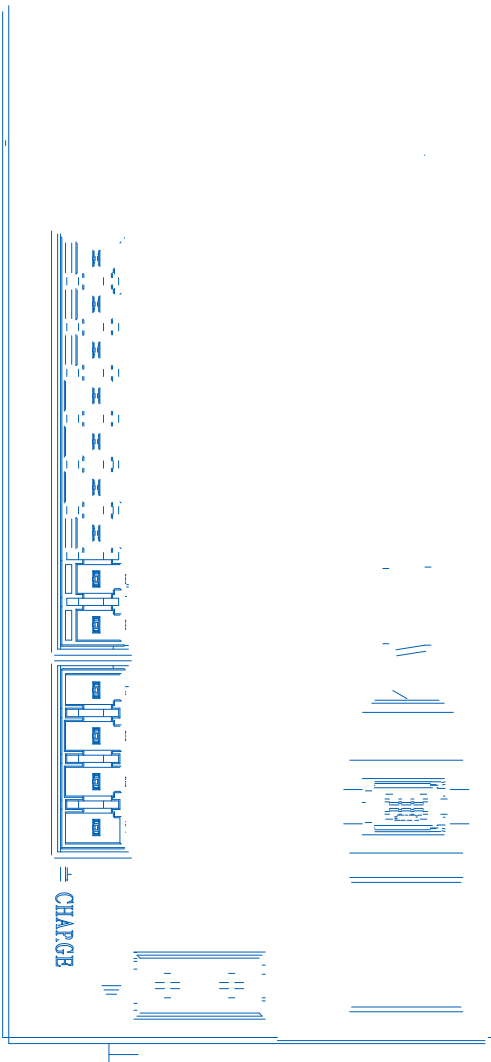
注：□内标识控制类型，A为脉冲型，B为EtherCAT，N为CANopen，R为PROFINET

■ AC380V驱动器型号规格表

		EtherCAT	CANopen	PROFINET		
2	SV-X □A T-A -	SV-X □B T-A -	SV-X EN T-A -	SV-X FR T-A -	AC V	AC380V
3	SV-X □A T-A -	SV-X □B T-A -	SV-X EN T-A -	SV-X FR T-A -		
5	SV-X □A T-A -	SV-X □B T-A -	SV-X EN T-A -	SV-X FR T-A -		
7.5	SV-X □A T-A -	SV-X □B T-A -	SV-X EN T-A -	SV-X FR T-A -		

注：□内E为标准型、F为全功能型





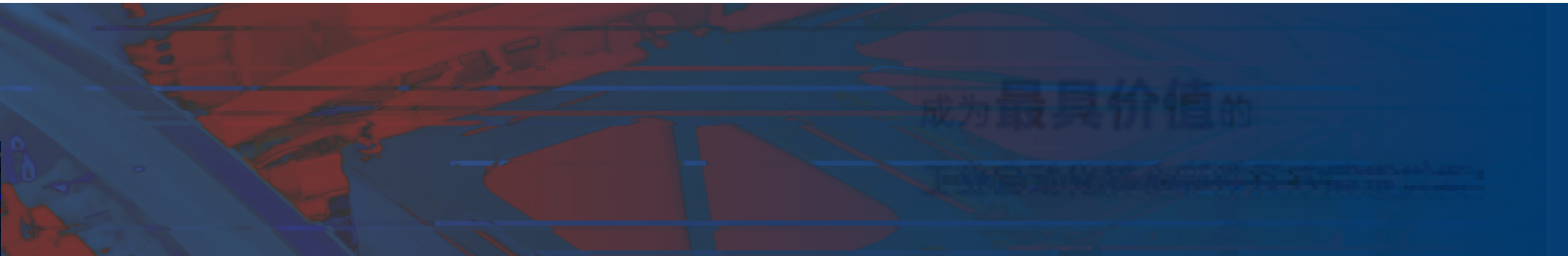
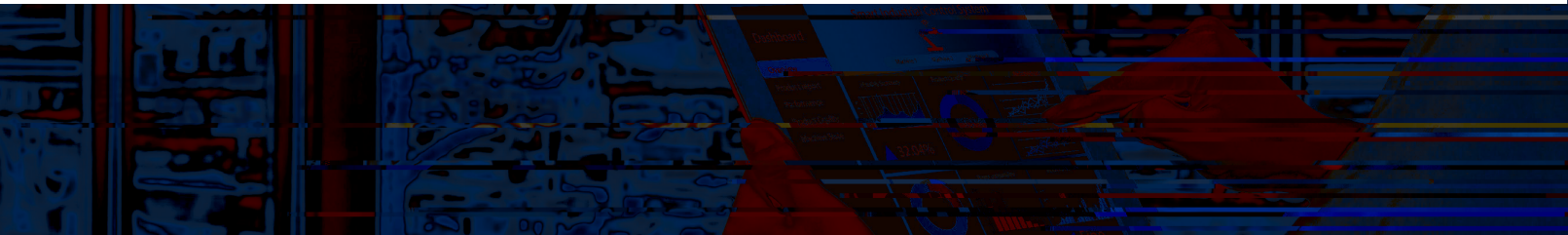
主电源AC380V



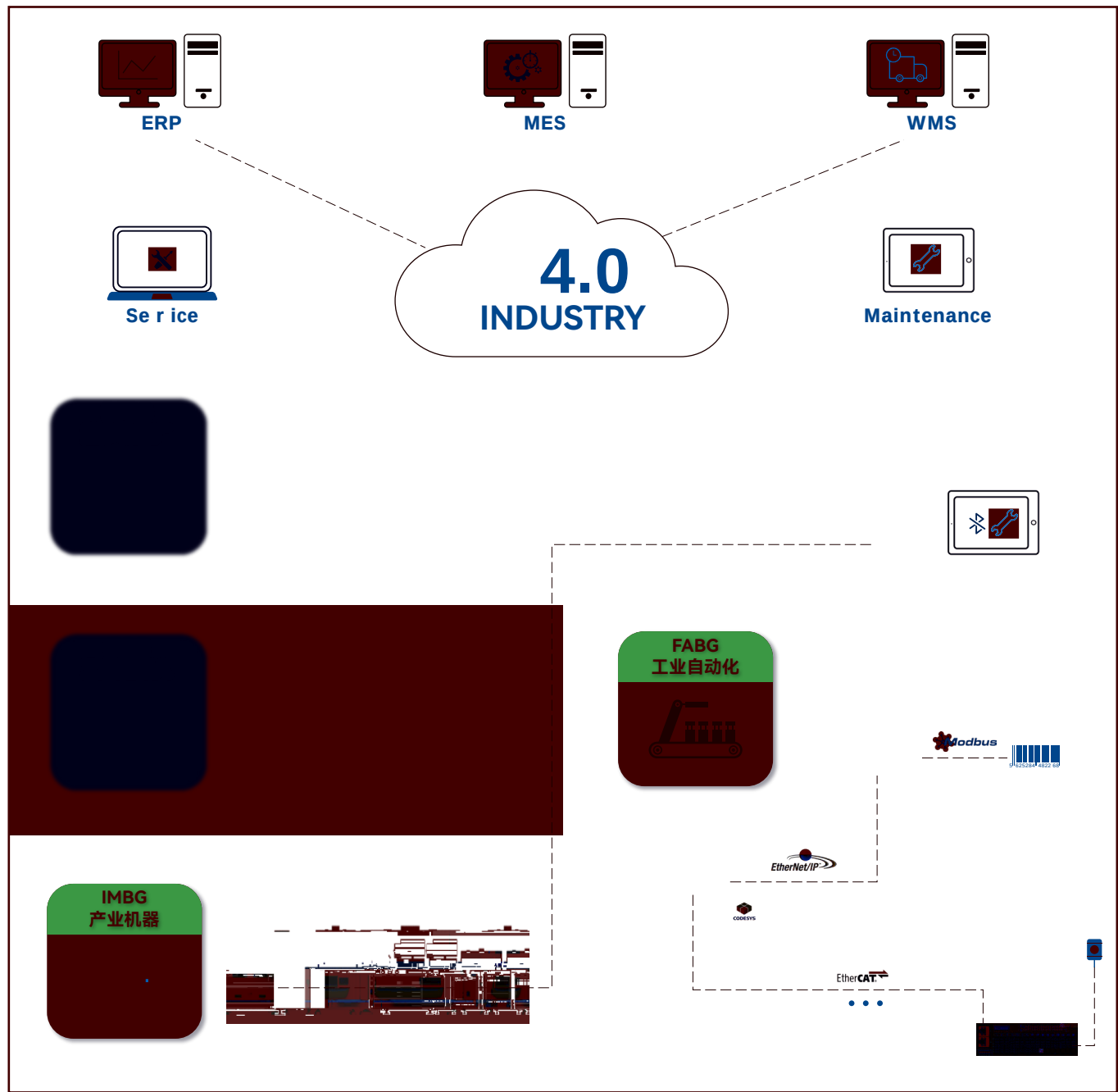
[REDACTED]

| — |

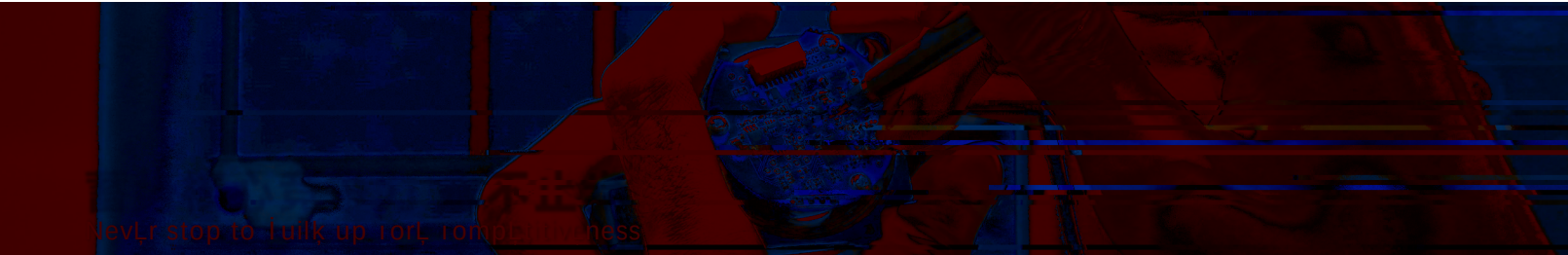
[REDACTED]



自动化+智能装备+数字化



2011



6

10%+

300+