禾川科技 HCFA

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禾川自动化中心ATC

本文件中所有信息如有变更，恕不另行通知

型录编号：2024年12月第三期

因纸质版本更新有滞后

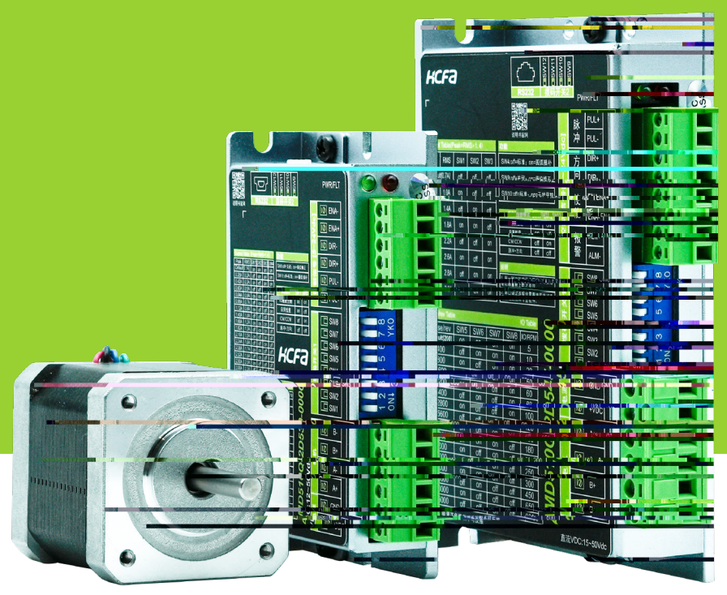
最新产品信息请参照官网数据为准

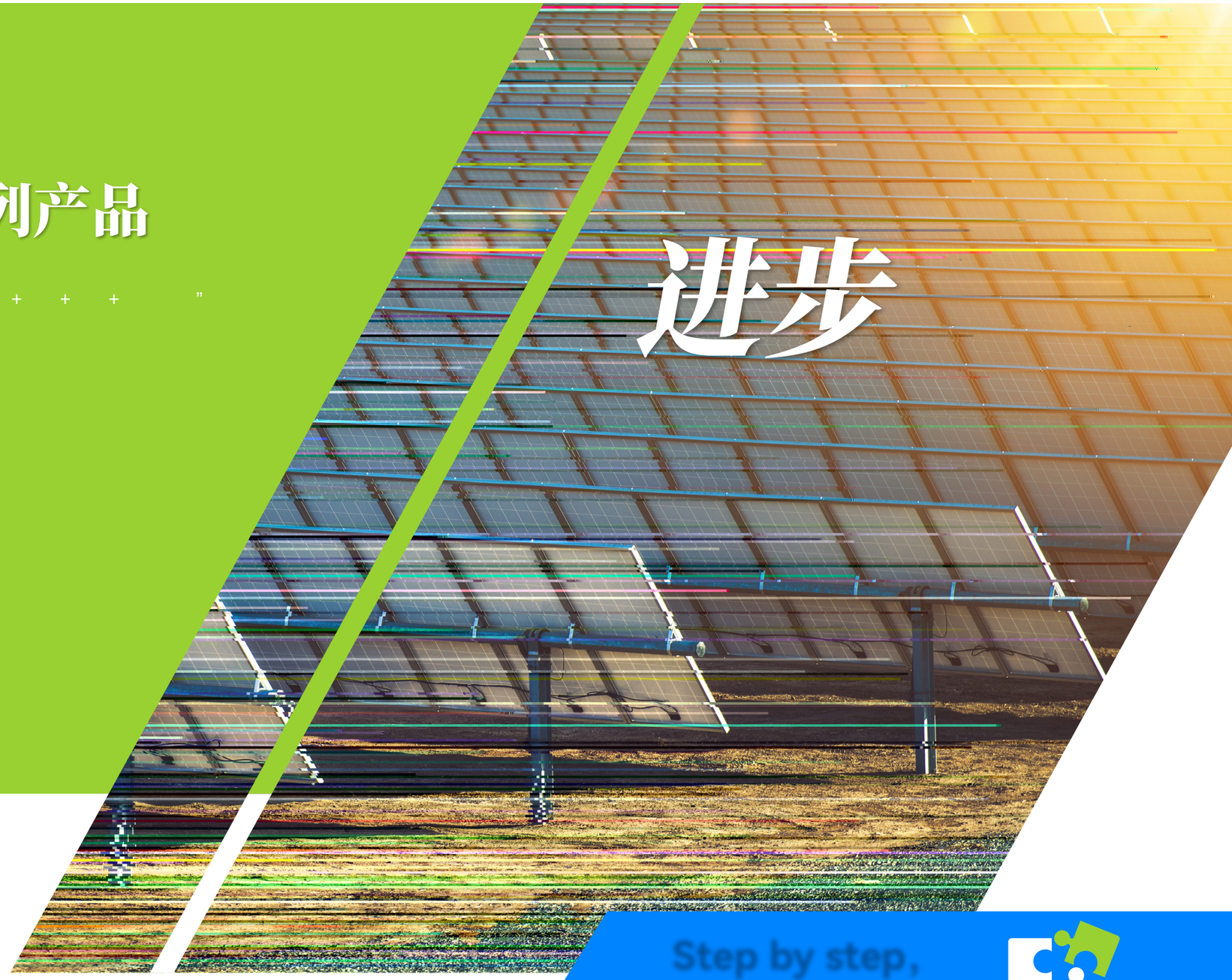
EtherCAT®为德国倍福自动化有限公司所有；

本手册中记载的其它产品，产品名称以及产品的商标或注册商标归各公司所有，并非本公司产品。

AM步进 系列产品

“ + + + ”





Step by step,
for the better

- ***AMD-510Q***

- ***AMD-510B***

- ***AMW-510Q***

- ***AMD-520B***

AMD	
AMW	

510	
520	
580	

A	
B	EtherCAT
C	CANopen
E	485
R	PN
I	I/O
Q	+IO

2025

2	2
3	3
5	5

A	
D	
Y	

5	5=5×10=50V

45	45=45÷10=4.5A

-	
B	2
C	3
D	4

0000	-

- 32 ARM
-
-
- /

-
-
-

30%

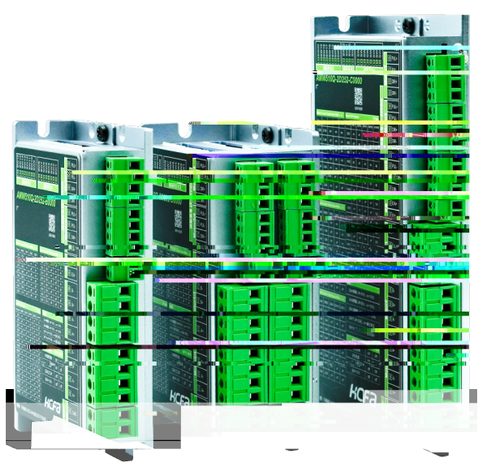
脉冲IO型开环步进

AMD-510Q +IO

- + CW/CCW
- DC5V~24V
- NPN/PNP
-

多轴脉冲IO型开环步进

- 2~4
-
- IO

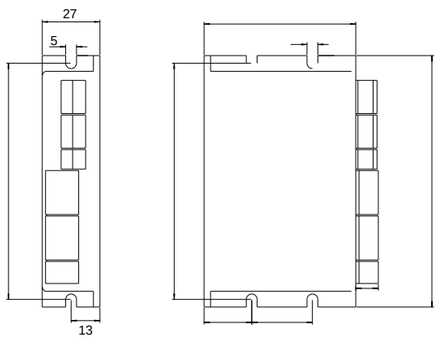


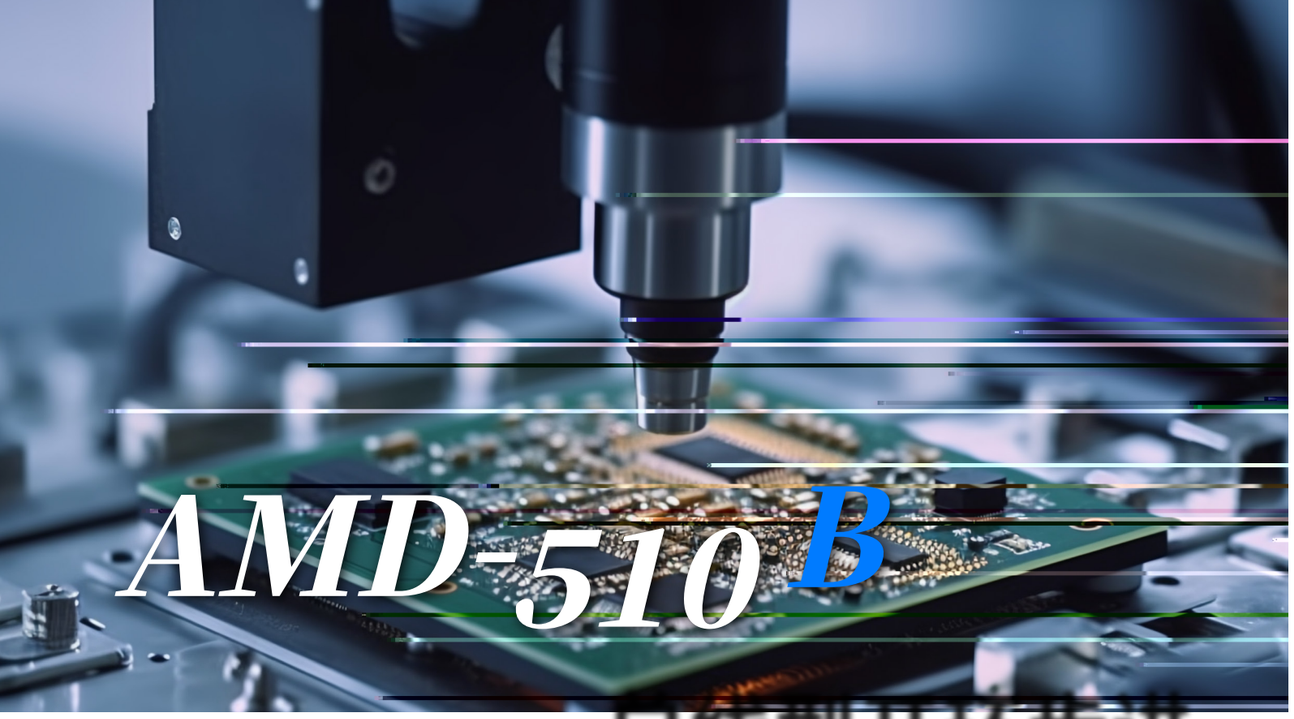
76%

-
- 4

AMW-510Q +IO

	2	3	4
	+	+	+
	CW/CCW	CW/CCW	CW/CCW
	IO	IO	IO
	DC24V	DC24V	DC24V
( )	0.7-5.2A	0.7-5.2A	0.7-5.2A
( )	200-25600	200-25600	200-25600
IO	10~600rpm	10~600rpm	10~600rpm
	✓	✓	✓
/	✓	✓	✓
	×	×	×
/	-	-	-
	42~60	42~60	42~60
	116*70*27	157*76*27	116*70*42
	220g	280g	300g



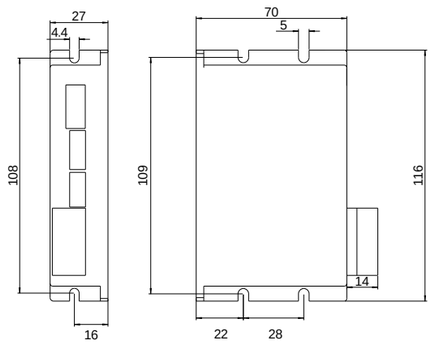


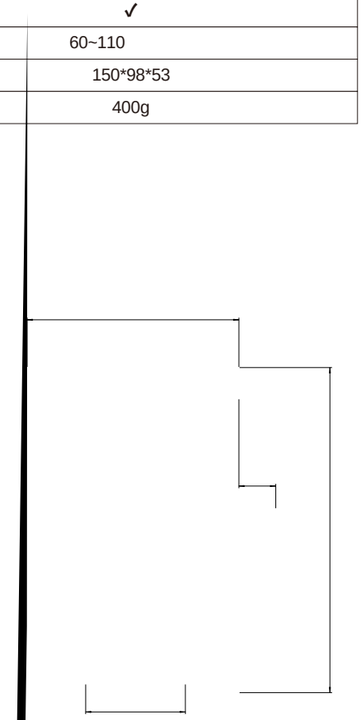
总线型开环步进

-
-
-
- I/O 5IN/3OUT
-
- EtherCAT FoE

AMD-510B Ether CAT

	Ether CAT	
	CSP PP PV HM	
	24-75V 24V 36V 48V	24-140V 20-100V 48V 60V 75V 100V 48V 60V 75V
( )	0.3-8.4A	2.0-8.4A
	200-51200 50000	200-51200 50000
EtherCAT	✓	✓
	✓	✓
/	✓	✓
	✓	✓
	✓	✓
	×	✓
I/O	5IN/3OUT	5IN/3OUT
/	✓	✓
	20~86	60~110
	116*70*27	150*98*53
	200g	400g





AMD-520B Ether CAT

	Ether CAT	
	CSP PP PV HM 27	Z
	1000 A,B	A,B,Z 2500 5000
	24-75V 24V 36V 48V	24-140V 20-100V 48V 60V 75V 100V 48V 60V 75V
( )	0.3-8.4A	2.0-8.4A
	200-51200 50000	200-51200 50000
EtherCAT	✓	✓
	✓	✓
/	✓	✓
	✓	✓
	✓	✓
	×	✓
I/O	5IN/3OUT	5IN/3OUT
/	✓	✓
	20~86	60~110
	116*70*27	150*98*53
	200g	4[illegible]g

-
- 1000 A,B,Z 2500 5000
- Z

A,B,Z

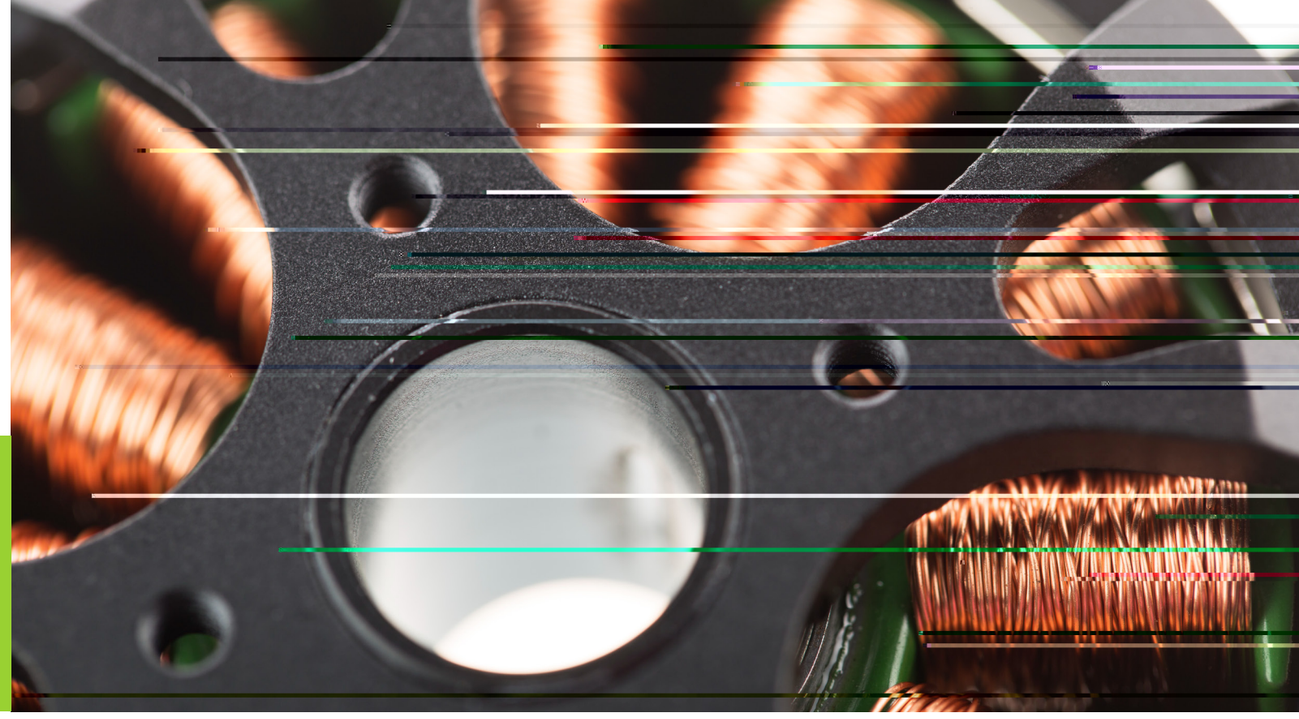
-
-

Z

0

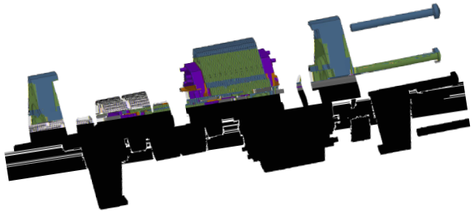
6

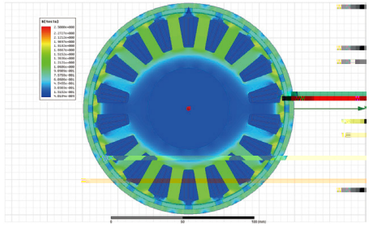
Z



AM

步进电机系列





AM	

510	
511	
520	(1000)
580	

A	
C	
F	IP65
J	
K	
D	( )

14	14mm
20	20mm
28	28mm
35	35mm
42	42mm
57	57mm
60	60mm
86	86mm
1Y	110mm

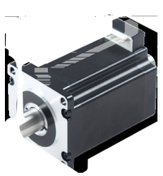
A	2
B	2
C	3
D	3
E	5
F	5

0003	0.03N.m
...	...
1200	12.N.m
100	

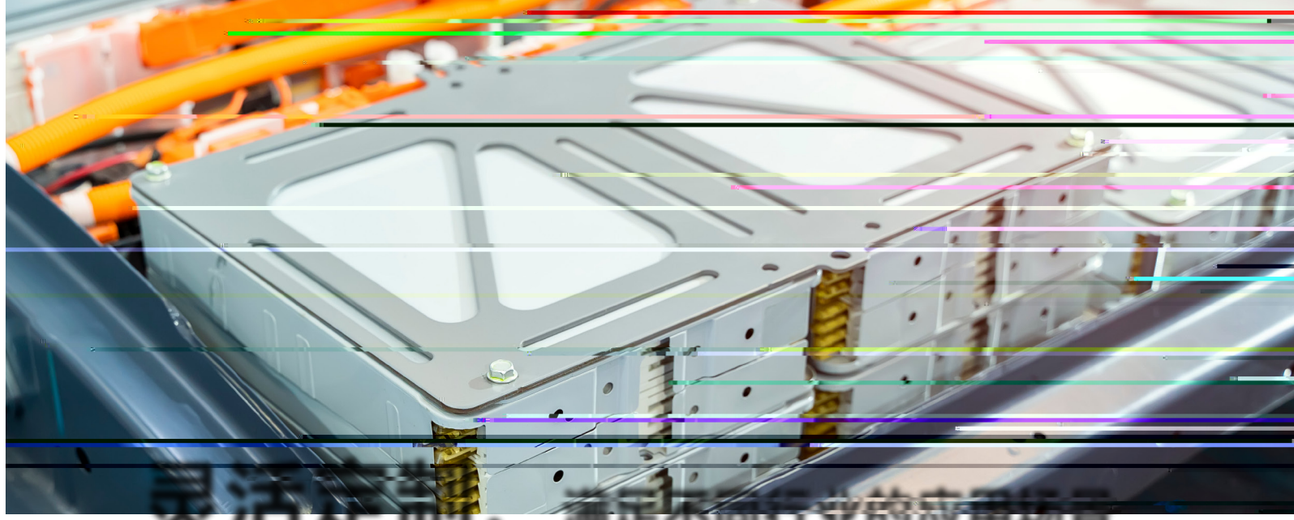
	30cm
01	30cm
0C	

	20-60 /86

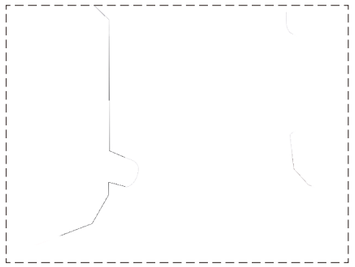
42mm
57mm
60mm
86mm

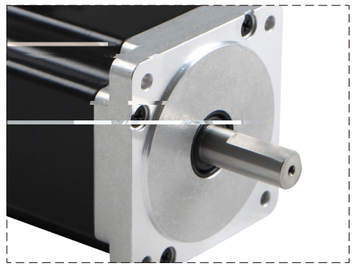


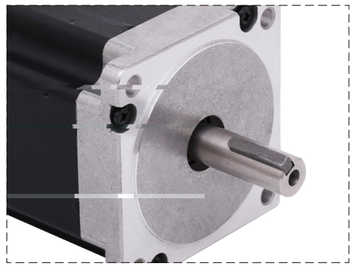
20mm	3mm
28mm	5mm
35mm	8mm
42mm	8mm
57mm	12mm
86mm	16mm

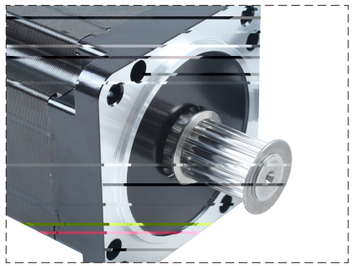


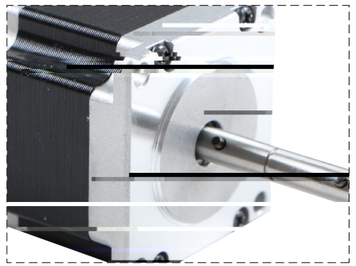
灵活定制，满足不同行业的应用场景

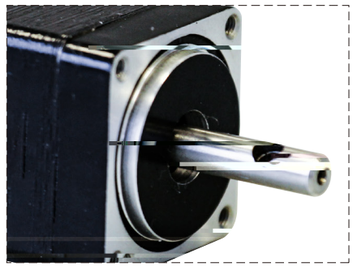


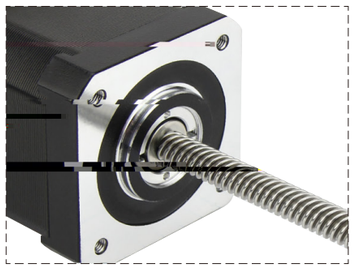


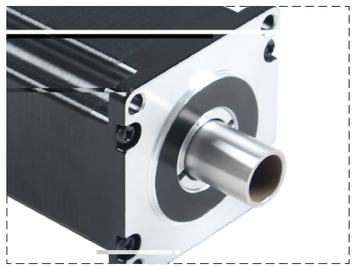










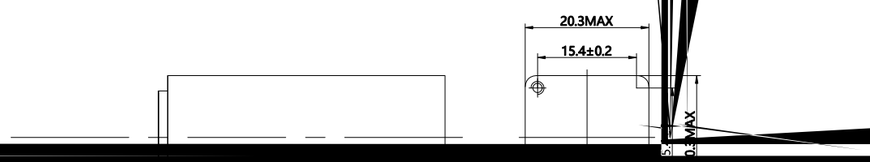


28	AM510A-28A0016-0000	50	5		0.16	1	18	0.2

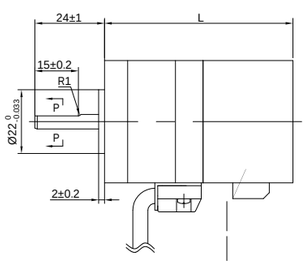
- 1.8°

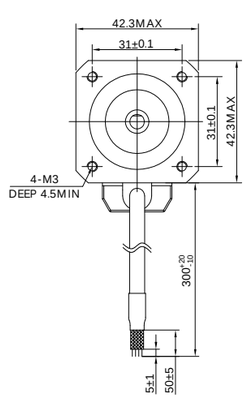
20	AM510A-20A0003-0000	45	4		0.035	0.8	3.5	0.08
AMD510Q-2D530 /IO AMD510B-2D784 EtherCAT								

35	AM510A-35A0020-0000	33	5		0.2	1	20	0.166



42	AM510A-42B0025-0000	65	5		0.25	1.5	38	0.41
	AM510A-42B0045-0000	71	5		0.45	1.5	58	0.48
	AM510A-42B0060-0000	79	5		0.6	1.8	85	0.54
	AM510A-42B0086-0000	92	5		0.86	1.8	115	0.68
AMD510Q-2D545 /IO AMD510B-2D784 EtherCAT								





57	AM510A-57B0120-0000	96	6.35		1.2	2.8	280	1.15
	AM510A-57B0200-0000	117	8		2	5	460	1.5
	AM510A-57B0250-0000	126	8		2.5	5	530	1.75
AMD510Q-2D545 /IO AMD510B-2D784 EtherCAT								

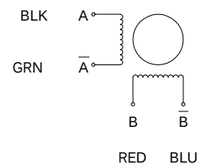
60	AM510A-60B0220-0000	106	8		2.2	5	570	1.44
	AM510A-60B0320-0000	126	8		3.2	5	900	1.86
AMD510Q-2D545 /IO AMD510B-2D784 EtherCAT AMD510B-2Y1084 EtherCAT								

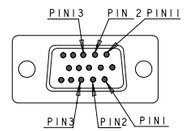
86	AM510A-86B0450-0000	120	12.7		4.5	6	1850	2.75
	AM510A-86B0850-0000	158	12.7		8.5	6	3500	4.45
	AM510A-86B1200-0000	198	14		12	6	4500	5.95
AMD510Q-2D884 /IO AMD510B-2D784 EtherCAT AMD510B-2Y1084 EtherCAT								

60	AM520A-60A0360-0000	109	8		3.6	5.6	860	1.6

86	AM520A-86A0450-0000	96	14		4.5	6	1400	2.5
	AM520A-86A0850-0000	133	14		8.5	6	2700	3.8
	AM520A-86A1200-0000	171	14		12	6	4000	5.5

电机端线缆定义





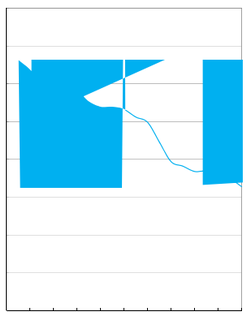
	3	2	13	1	12	11
	/			/		/
	GND	VCC(5V)	EA-	EA+	EB-	EB+

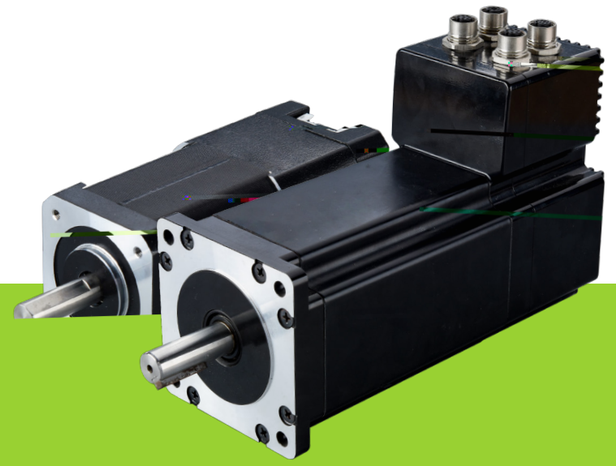
		A+	VCC	GND	B+	B-	A-	
		/	/	/	/	/	/	/
	A	1	2	3	11	12	13	A DB15pin
AMCAB-ENC1-***L-05	B	3	1	2	5	6	4	B PHB-7*2P=14pin
AMCAB-ENC2-***L-05	B							B Z

- **AMCAB-ENC1-***L-05 A D-SUB B PHB**

- **AMCAB-ENC2-***L-05 A D-SUB B**

开环步进电机矩频曲线





AMZ-

集成步进电机系列

40%

50%

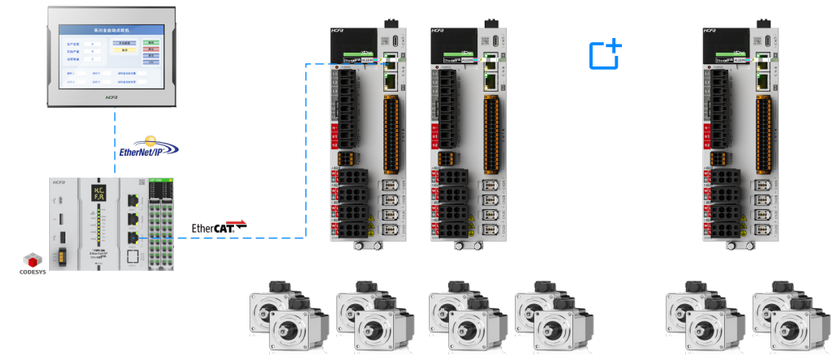
IP65

( )

+IO	42	0.4	AMZ510A-42Q0040
		0.8	AMZ510A-42Q0080
	57	1.2	AMZ510A-57Q0120
		2.2	AMZ510A-57Q0220
RS485	42	0.4	AMZ510A-42E0040
		0.8	AMZ510A-42E0080
	57	1.2	AMZ510A-57E0120
		2.0	AMZ510A-57E0200
( ) +IO	42	0.4	AMZ521A-42Q0040
		0.8	AMZ521A-42Q0080
	57	1.0	AMZ521A-57Q0100
		2.2	AMZ521A-57Q0220
1000p +IO	57	1.0	AMZ520A-57Q0100
		2.2	AMZ520A-57Q0220
RS485	42	0.4	AMZ521A-42E0040
		0.8	AMZ521A-42E0080
	57	1.2	AMZ521A-57E0120
		2.0	AMZ521A-57E0200
1000p EtherCAT	57	1.2	AMZ520F-57B0120
		2.8	AMZ520F-57B0280
	60	4.0	AMZ520F-60B0400
	86	4.5	AMZ520F-86B0450
		8.5	AMZ520F-86B0850
		12	AMZ520F-86B1200

精巧集成，灵活扩展

全新小型运动控制解决方案不二之选



可扩展

多轴同步

安装空间

60%

集成

节省空间

60%

4

工程配线

IO

30%

≈4

30%

3