Midea | SERVOTRONIX always in motion

CDLB

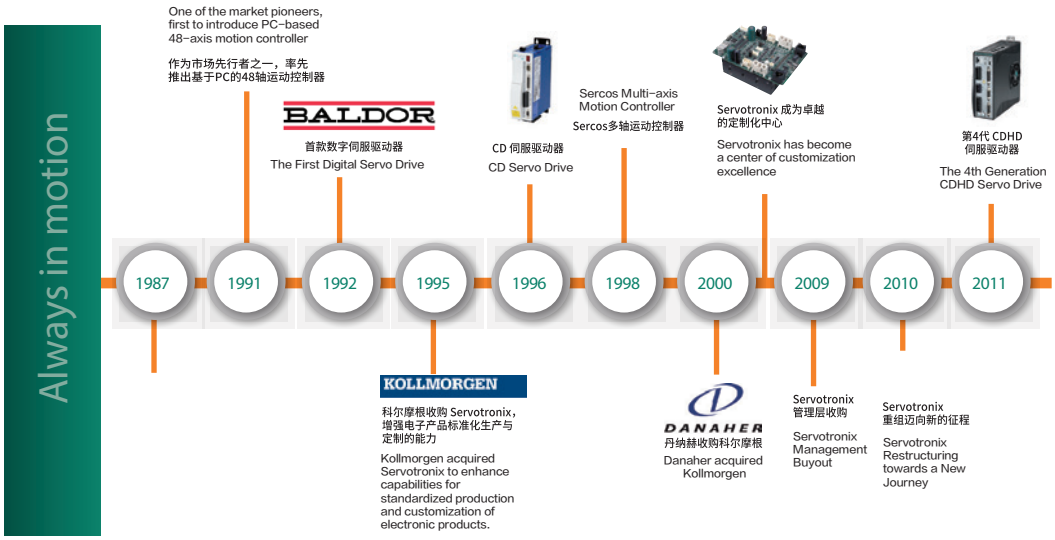
单轴机器人 SINGLE-AXIS ROBOTS

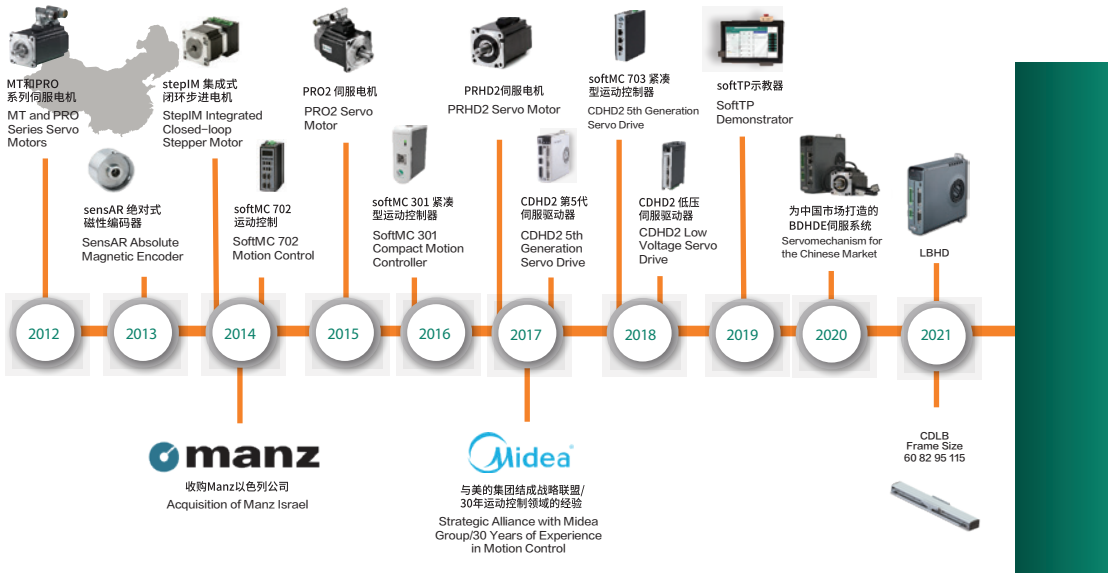
SERVOTRONIX always in motion

关于高创 About Servtotronix

Servotronix Motion Control 开发、制造标准和定制自动化解决方案，尤其专注于运动控制业务。几十年来，公司相继开发了数代高性能伺服驱动器系列和运动控制解决方案，专为客户应用量身打造，使其符合各行业客户在形式、搭配、功能和成本方面的规格要求。Servotronix 的客户群体遍及全球，包括领先的机床制造商和自动化系统供应商。公司的宗旨是为客户提供优质产品、具有成本效益的解决方案，并准时交付。

Servotronix Motion Control is engaged in the development and manufacture of standard and custom automation solutions, with a particular focus on the motion control business. Over the past decades, the company has developed several generations of high-performance servo drive series and motion control solutions tailored to meet the specifications of customers in various industries in terms of form, fit, function and cost. Servotronix has a global customer base that includes leading machine tool manufacturers and automation system suppliers. The company's mission is to provide customers with quality products, cost effective solutions and on-time delivery.





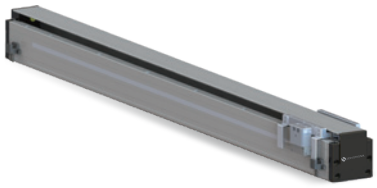
订购信息
Ordering Information

CDLB - 60 - 0060 - A - 010 - 2 - M1 - C1 - 0200 - AP - [空白]

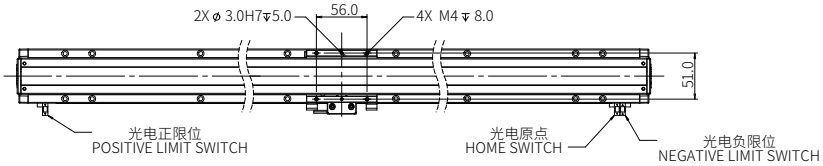
	CDLB单轴机器人/ CDLB single-axis robots
	底座尺寸/ Base size
60	60 mm
82	82mm
95	95mm
115	115mm
	有效行程/ Valid trips
0060	60mm
1440	1440 mm
	编码器类型/ Encoder type
A	高精度/ High precision
B	标准/Standard
	编码分辨率/ Encoding resolution
010	1 um/count
005	0.5um/count(coming soon)
001	0.1um/count(coming soon)
	动子数量/ Number of motes
空	单动子/ Single Actuator
2	双动子/ Doppelganger
3	三动子/ Three movers and shakers
	电机类型/ Motor type
M1	M1-W030
M2	M2-W030
M3	82时为M3-W040;95时为M3-W060;115时为M3-W075
M4	82时为M4-W040;95时为M4-W060;115时为M4-W075
	防尘方式/ Dust protection methods
C1	半防尘/ Semi-dustproof
C2	全防尘/ Fully dustproof
	导线长度/ Length of conductors
0200	200 mm
1000	1000mm
	驱动器通信方式/ Drive communication method
AP	脉冲型/ Pulse type
EB	EtherCAT总线型/ EtherCAT bus type
	特殊选项/ Special options
[空白]	标准型号/ Standard models

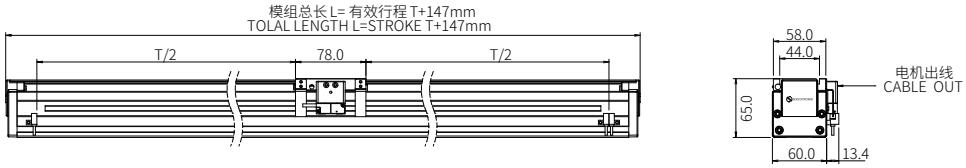
CDLB60 Series 系列

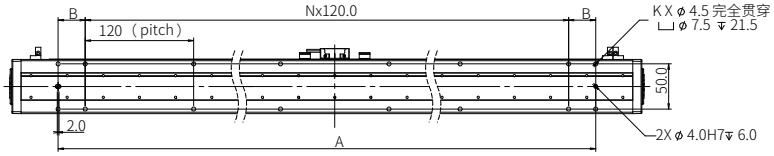
CDLB60-C1-M1直线电机
CDLB60-C1-M1 Linear Motor



机械尺寸/Mechnical Dimensions:







CDLB60-C1-M1直线电机型号及参数/Models and parameters

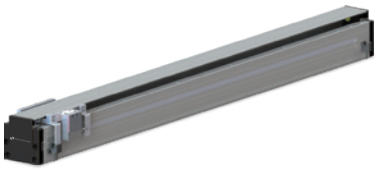
参数 Parameters	行程T (mm) 80	140	200	260	320	380	440	500	560	620	680	740	800	860
K	4	8	8	8	8	12	12	12	12	16	16	16	16	20
N	1	1	1	1	3	3	3	3	5	5	5	5	7	7
A(mm)	120	180	240	300	360	420	480	540	600	660	720	780	840	900
B(mm)	-	30	60	90	-	30	60	90	-	30	60	90	-	30
L(mm)	227	287	347	407	467	527	587	647	707	767	827	887	947	1007

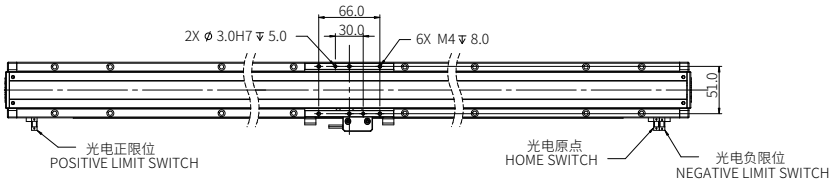
CDLB60-C1-M1直线电机配置和性能参数/Configuration & Performance Parameter

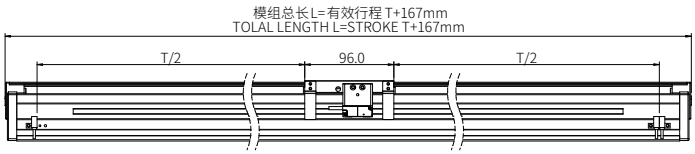
配置/Configuration:	
电机/Motor	M1-W030　电源线长:200mm
驱动/Drives	持续电流:2.5A　峰值电流:10A
反馈/Feedback	标准:DMT-010　1.0μm分辨率　配线长度:200mm 高精度:DH-010　1.0μm分辨率　配线长度:200mm
导轨/Guide	内嵌式双导轨
性能参数/Performance Parameter:	
推力/Thrust	持续推力23.8N　峰值推力:95N
负载/Load	在加速度1G、速度500mm/s、驻留时间0.2s、运行620mm行程情况下 水平安装:负载≤4kg，侧挂安装:负载≤2kg，最高运行限速1000mm/s
精度/Accuracy	标准:重复精度:±5μm 高精度:重复精度:±2μm
直线度/Straightness	±10μm/300mm
模组重量/Weight	80mm行程1.8kg(每增加60mm行程增加0.32kg)
安装方式/Installation Methods	水平安装/侧挂安装

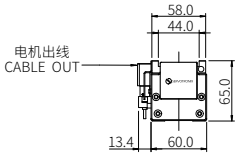
CDLB60-C1-M2直线电机
CDLB60-C1-M2 Linear Motor

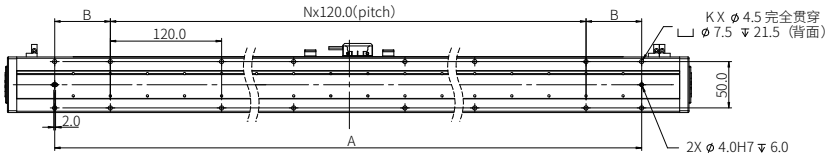
机械尺寸/Mechnical Dimensions:











CDLB60-C1-M2直线电机型号及参数/Models and parameters

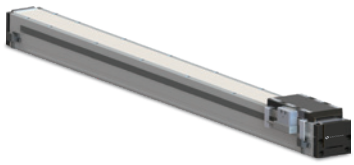
参数 Parameters	行程T (mm)													
	60	120	180	240	300	360	420	480	540	600	660	720	780	840
K	4	8	8	8	8	12	12	12	12	16	16	16	16	20
N	1	1	1	1	3	3	3	3	5	5	5	5	7	7
A(mm)	120	180	240	300	360	420	480	540	600	660	720	780	840	900
B(mm)	-	30	60	90	-	30	60	90	-	30	60	90	-	30
L(mm)	227	287	347	407	467	527	587	647	707	767	827	887	947	1007

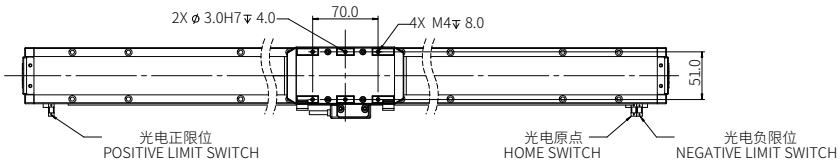
CDLB60-C1-M2直线电机配置和性能参数/Configuration & Performance Parameter

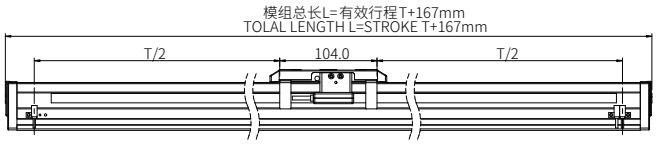
配置/Configuration:	
电机/Motor	M2-W030 电源线长:200mm
驱动/Drives	持续电流:2.5A 峰值电流:10A
反馈/Feedback	标准:DMT-010 1.0μm分辨率 配线长度:200mm 高精度:DH-010 1.0μm分辨率 配线长度:200mm
导轨/Guide	内嵌式双导轨
性能参数/Performance Parameter:	
推力/Thrust	持续推力44.8N 峰值推力:179N
负载/Load	在加速度1G、速度500mm/s、驻留时间0.2s、运行600mm行程情况下 水平安装:负载≤6kg，侧挂安装:负载≤3kg，最高运行限速1000mm/s
精度/Accuracy	标准:重复精度:±5μm 高精度:重复精度:±2μm
直线度/Straightness	±10μm/300mm
模组重量/Weight	60mm行程2.0kg (每增加60mm行程增加0.32kg)
安装方式/Installation Methods	水平安装/侧挂安装

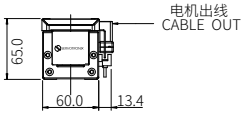
CDLB60-C2-M2直线电机
CDLB60-C2-M2 Linear Motor

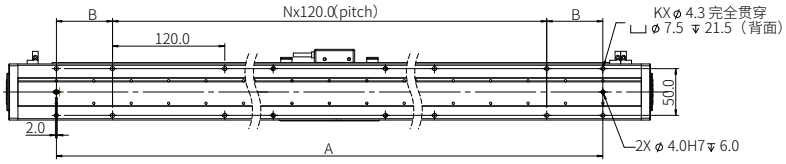
机械尺寸/Mechnical Dimensions:











CDLB60-C2-M2直线电机型号及参数/Models and parameters

参数 Parameters	行程T (mm)													
	60	120	180	240	300	360	420	480	540	600	660	720	780	840
K	4	8	8	8	8	12	12	12	12	16	16	16	16	20
N	1	1	1	1	3	3	3	3	5	5	5	5	7	7
A(mm)	120	180	240	300	360	420	480	540	600	660	720	780	840	900
B(mm)	-	30	60	90	-	30	60	90	-	30	60	90	-	30
L(mm)	227	287	347	407	467	527	587	647	707	767	827	887	947	1007

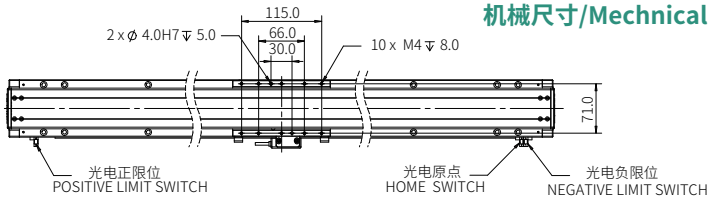
CDLB60-C2-M2直线电机配置和性能参数/Configuration & Performance Parameter

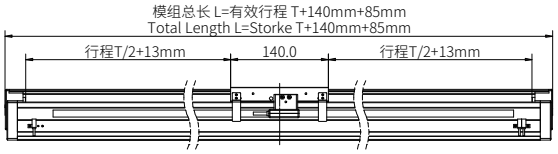
配置/Configuration:	
电机/Motor	M2-W030 电源线长:200mm
驱动/Drives	持续电流:2.5A 峰值电流:10A
反馈/Feedback	标准:DMT-010 1.0μm分辨率 配线长度:200mm 高精度:DH-010 1.0μm分辨率 配线长度:200mm
导轨/Guide	内嵌式双导轨
性能参数/Performance Parameter:	
推力/Thrust	持续推力:44.8N 峰值推力:179N
负载/Load	在加速度1G、速度500mm/s、驻留时间0.2s、运行600mm行程情况下 水平安装:负载≤6kg，侧挂安装:负载≤3kg，最高运行限速1000mm/s
精度/Accuracy	标准:重复精度:±5μm 高精度:重复精度:±2μm
直线度/Straightness	±10μm/300mm
模组重量/Weight	60mm行程2.0kg (每增加60mm行程增加0.32kg)
安装方式/Installation Methods	水平安装/侧挂安装

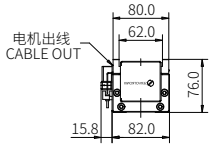
CDLB82 Series 系列

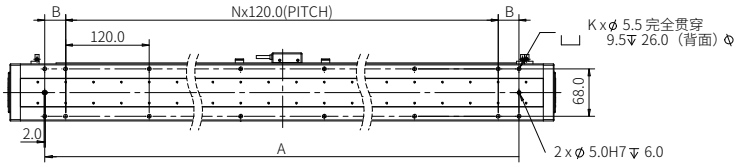
CDLB82-C1-M3直线电机
CDLB82-C1-M3 Linear Motor

机械尺寸/Mechnical Dimensions:









CDLB82-C1-M3直线电机型号及参数/Models and parameters

参数 Parameters	行程T(mm) 60	120	180	240	300	360	420	480	540	600
K	8	8	8	8	12	12	12	12	16	16
N	1	1	1	3	3	3	3	5	5	5
A(mm)	180	240	300	360	420	480	540	600	660	720
B(mm)	30	60	90	-	30	60	90	-	30	60
L(mm)	285	345	405	465	525	585	645	705	765	825

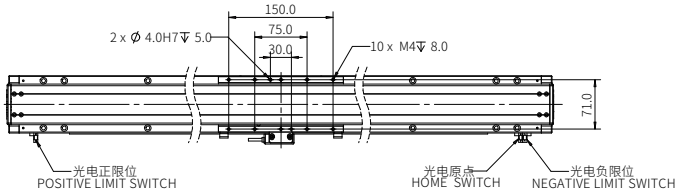
参数 Parameters	行程T(mm) 660	720	780	840	900	960	1020	1080	1140	1200	1260
K	16	16	20	20	20	20	24	24	24	24	28
N	5	7	7	7	7	9	9	9	9	11	11
A(mm)	780	840	900	960	1020	1080	1140	1200	1260	1320	1380
B(mm)	90	-	30	60	90	-	30	60	90	-	30
L(mm)	885	945	1005	1065	1125	1185	1245	1305	1365	1425	1485

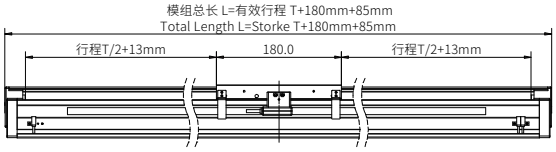
CDLB82-C1-M3直线电机配置和性能参数/Configuration & Performance Parameter

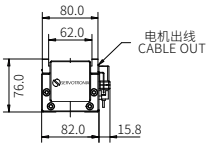
配置/Configuration:	
电机/Motor	M3-W040　电源线长:200mm
驱动/Drives	持续电流:2.5A　峰值电流:10A
反馈/Feedback	标准:DMT-010　1.0μm分辨率　配线长度:200mm 高精度:DH-010　1.0μm分辨率　配线长度:200mm
导轨/Guide	内嵌式双导轨
性能参数/Performance Parameter:	
推力/Thrust	持续推力:52N　峰值推力:208N
负载/Load	在加速度1G、速度1000mm/s、驻留时间0.2s、运行1000mm行程情况下 水平安装:负载≤8kg, 侧挂安装:负载≤6kg, 最高运行限速2000mm/s
精度/Accuracy	标准:重复精度:±5μm　高精度:重复精度:±2μm
直线度/Straightness	±10μm/300mm
模组重量/Weight	60mm行程5kg (每增加60mm行程增加0.5kg)
安装方式/Installation Methods	水平安装/侧挂安装

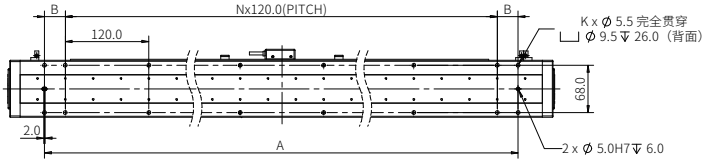
CDLB82-C1-M4直线电机
CDLB82-C1-M4 Linear Motor

机械尺寸/Mechnical Dimensions:









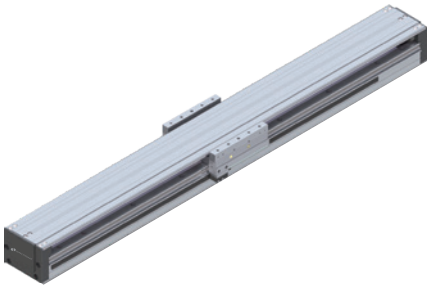
CDLB82-C1-M4直线电机型号及参数/Models and parameters

参数 Parameters	行程T(mm) 80	140	200	260	320	380	440	500	560	620
K	8	8	8	12	12	12	12	16	16	16
N	1	1	3	3	3	3	5	5	5	5
A(mm)	240	300	360	420	480	540	600	660	720	780
B(mm)	60	90	-	30	60	90	-	30	60	90
L(mm)	345	405	465	525	585	645	705	760	825	885

参数 Parameters	行程T(mm) 680	740	800	860	920	980	1040	1100	1160	1220
K	16	20	20	20	20	24	24	24	24	28
N	7	7	7	7	9	9	9	9	11	11
A(mm)	840	900	960	1020	1080	1140	1200	1260	1320	1380
B(mm)	-	30	60	90	-	30	60	90	-	30
L(mm)	945	1005	1065	1125	1185	1245	1305	1365	1425	1485

CDLB82-C1-M4直线电机配置和性能参数/Configuration & Performance Parameter

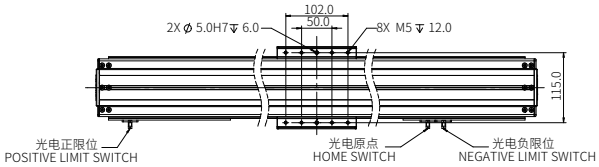
配置/Configuration:	
电机/Motor	M4-W040　电源线长:200mm
驱动/Drives	持续电流:2.5A　峰值电流:10A
反馈/Feedback	标准:DMT-010　1.0μm分辨率　配线长度:200mm 高精度:DH-010　1.0μm分辨率　配线长度:200mm
导轨/Guide	内嵌式双导轨
性能参数/Performance Parameter:	
推力/Thrust	持续推力:98N　峰值推力:392N
负载/Load	在加速度1G、速度1000mm/s、驻留时间0.2s、运行1000mm行程情况下 水平安装:负载≤15kg, 侧挂安装:负载≤10kg, 最高运行限速2000mm/s
精度/Accuracy	标准:重复精度:±5μm　高精度:重复精度:±2μm
直线度/Straightness	±10μm/300mm
模组重量/Weight	60mm行程5.6kg(每增加60mm行程增加0.5kg)
安装方式/Installation Methods	水平安装/侧挂安装

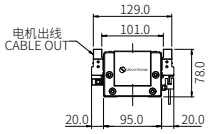


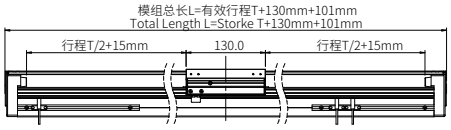
CDLB95 Series 系列

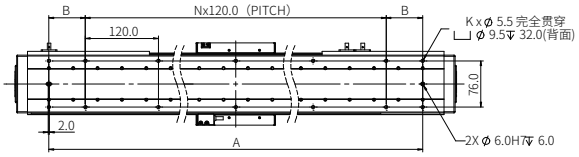
CDLB95-C1-M3直线电机
CDLB95-C1-M3 Linear Motor

机械尺寸/Mechnical Dimensions:









CDLB95-C1-M3直线电机型号及参数/Models and parameters

参数 Parameters	行程T(mm) 60	120	180	240	300	360	420	480	540	600
K	6	6	10	10	10	10	14	14	14	14
N	-	2	2	2	2	4	4	4	6	6
A(mm)	180	240	300	360	420	480	540	600	660	720
B(mm)	90	-	30	60	90	-	30	60	90	-
L(mm)	291	351	411	471	531	591	651	711	771	831

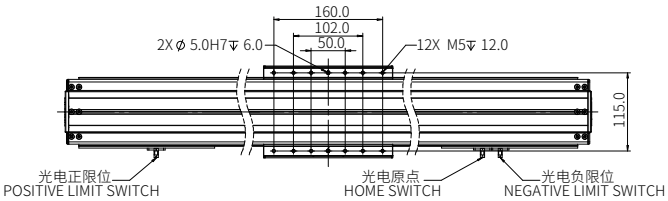
参数 Parameters	行程T(mm) 660	720	780	840	900	960	1020	1080	1140	1200	1260
K	18	18	18	18	22	22	22	22	26	26	26
N	6	6	6	8	8	8	8	10	10	10	10
A(mm)	780	840	900	960	1020	1080	1140	1200	1260	1320	1380
B(mm)	30	60	90	-	30	60	90	-	30	60	90
L(mm)	891	951	1011	1071	1131	1191	1251	1311	1371	1431	1491

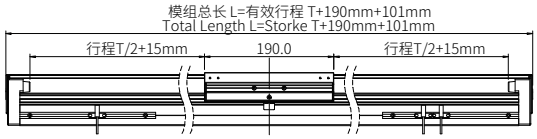
CDLB95-C1-M3直线电机配置和性能参数/Configuration & Performance Parameter

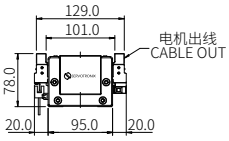
配置/Configuration:	
电机/Motor	M3-W060　电源线长:200mm
驱动/Drives	持续电流:2.5A　峰值电流:10A
反馈/Feedback	标准:DMA-010　1.0μm分辨率　配线长度:200mm 高精度:DH-010　1.0μm分辨率　配线长度:200mm
导轨/Guide	外嵌式双导轨
性能参数/Performance Parameter:	
推力/Thrust	持续推力:110.5N　峰值推力:442N
负载/Load	在加速度1G、速度1000mm/s、驻留时间0.2s、运行1000mm行程情况下 水平安装:负载≤18kg, 侧挂安装:负载≤15kg, 最高运行限速2000mm/s
精度/Accuracy	标准:重复精度:±5μm　高精度:重复精度:±2μm
直线度/Straightness	±10μm/300mm
模组重量/Weight	60mm行程6.4kg(每增加60mm行程增加0.65kg)
安装方式/Installation Methods	水平安装/侧挂安装

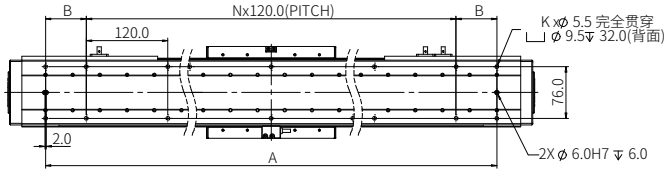
CDLB95-C1-M4直线电机
CDLB95-C1-M4 Linear Motor

机械尺寸/Mechnical Dimensions:









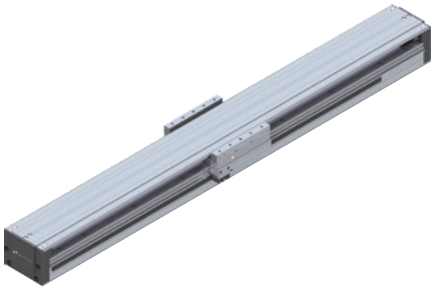
CDLB95-C1-M4直线电机型号及参数/Models and parameters

参数 Parameters	行程T (mm) 60	120	180	240	300	360	420	480	540	600
K	6	10	10	10	10	14	14	14	14	18
N	2	2	2	2	4	4	4	4	6	6
A(mm)	240	300	360	420	480	540	600	660	720	780
B(mm)	-	30	60	90	-	30	60	90	-	30
L(mm)	351	411	471	531	591	651	711	771	831	891

参数 Parameters	行程T (mm) 660	720	780	840	900	960	1020	1080	1140	1200
K	18	18	18	22	22	22	22	26	26	26
N	6	6	8	8	8	8	10	10	10	10
A(mm)	840	900	960	1020	1080	1140	1200	1260	1320	1380
B(mm)	60	90	-	30	60	90	-	30	60	90
L(mm)	951	1011	1071	1131	1191	1251	1311	1371	1431	1491

CDLB95-C1-M4直线电机配置和性能参数/Configuration & Performance Parameter

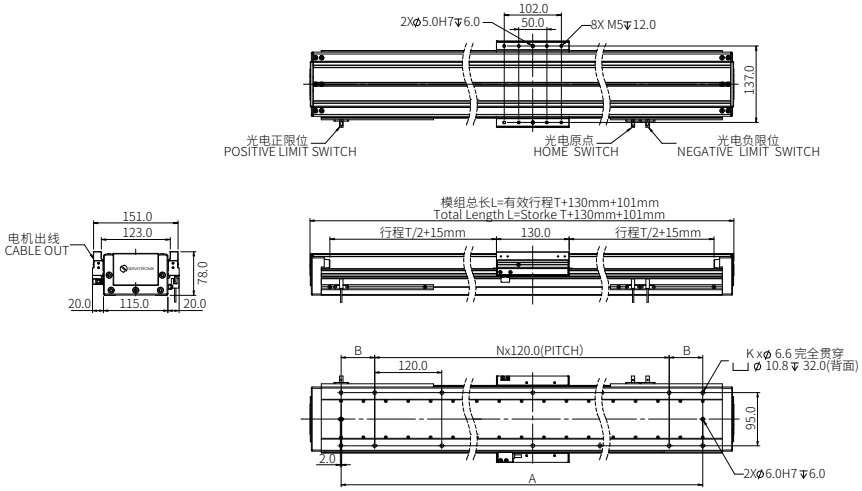
配置/Configuration:	
电机/Motor	M4-W060　电源线长:200mm
驱动/Drives	持续电流:2.5A　峰值电流:10A
反馈/Feedback	标准:DMA-010　1.0μm分辨率　配线长度:200mm 高精度:DH-010　1.0μm分辨率　配线长度:200mm
导轨/Guide	外嵌式双导轨
性能参数/Performance Parameter:	
推力/Thrust	持续推力:147N　峰值推力:588N
负载/Load	在加速度1G、速度1000mm/s、驻留时间0.2s、运行1000mm行程情况下 水平安装:负载≤25kg, 侧挂安装:负载≤20kg, 最高运行限速2000mm/s
精度/Accuracy	标准:重复精度:±5μm　高精度:重复精度:±2μm
直线度/Straightness	±10μm/300mm
模组重量/Weight	60mm行程7.6kg (每增加60mm行程增加0.65kg)
安装方式/Installation Methods	水平安装/侧挂安装



CDLB115 Series 系列

CDLB115-C1-M3直线电机
CDLB115-C1-M3 Linear Motor

机械尺寸/Mechnical Dimensions:



CDLB115-C1-M3直线电机型号及参数/Models and parameters

参数 Parameters	行程T(mm) 60	120	180	240	300	360	420	480	540	600
K	6	6	10	10	10	10	14	14	14	14
N	-	2	2	2	2	4	4	4	4	6
A(mm)	180	240	300	360	420	480	540	600	660	720
B(mm)	90	-	30	60	90	-	30	60	90	-
L(mm)	291	351	411	471	531	591	651	711	771	831

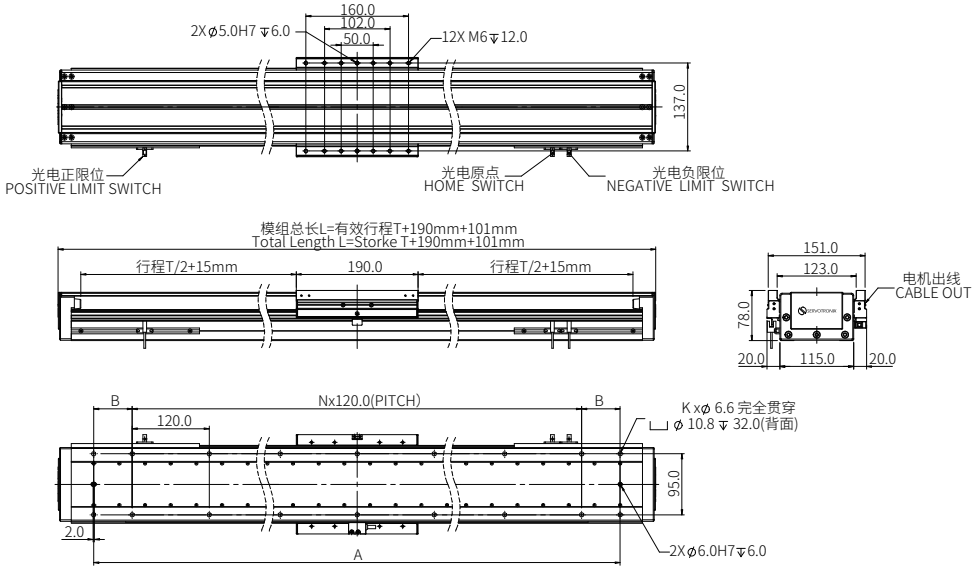
参数 Parameters	行程T(mm) 660	720	780	840	900	960	1020	1080	1140	1200	1260
K	18	18	18	18	22	22	22	22	26	26	26
N	6	6	6	8	8	8	8	10	10	10	10
A(mm)	780	840	900	960	1020	1080	1140	1200	1260	1320	1380
B(mm)	30	60	90	-	30	60	90	-	30	60	90
L(mm)	891	951	1011	1071	1131	1191	1251	1311	1371	1431	1491

CDLB115-C1-M3直线电机配置和性能参数/Configuration & Performance Parameter

配置/Configuration:	
电机/Motor	M3-W075　电源线长:200mm
驱动/Drives	持续电流:2.5A　峰值电流:10A
反馈/Feedback	标准:DMA-010　1.0μm分辨率　配线长度:200mm 高精度:DH-010　1.0μm分辨率　配线长度:200mm
导轨/Guide	外嵌式双导轨
性能参数/Performance Parameter:	
推力/Thrust	持续推力:152N　峰值推力:609N
负载/Load	在加速度1G、速度1000mm/s、驻留时间0.2s、运行1000mm行程情况下 水平安装:负载≤25kg,侧挂安装:负载≤18kg,最高运行限速2000mm/s
精度/Accuracy	标准:重复精度:±5μm　高精度:重复精度:±2μm
直线度/Straightness	±10μm/300mm
模组重量/Weight	60mm行程7.5kg(每增加60mm行程增加0.7kg)
安装方式/Installation Methods	水平安装/侧挂安装

CDLB115-C1-M4直线电机
CDLB115-C1-M4 Linear Motor

机械尺寸/Mechnical Dimensions:



CDLB115-C1-M4直线电机型号及参数/Models and parameters

参数 Parameters	行程T(mm) 60	120	180	240	300	360	420	480	540	600
K	6	10	10	10	10	14	14	14	14	18
N	2	2	2	2	4	4	4	4	6	6
A(mm)	240	300	360	420	480	540	600	660	720	780
B(mm)	-	30	60	90	-	30	60	90	-	30
L(mm)	351	411	471	531	591	651	711	771	831	891

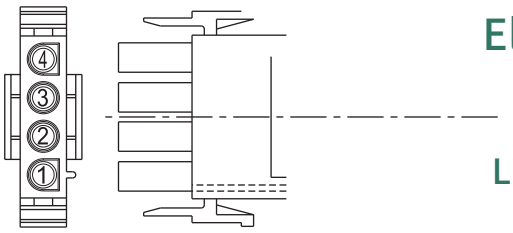
参数 Parameters	行程T(mm) 660	720	780	840	900	960	1020	1080	1140	1200
K	18	18	18	22	22	22	22	26	26	26
N	6	6	8	8	8	8	10	10	10	10
A(mm)	840	900	960	1020	1080	1140	1200	1260	1320	1380
B(mm)	60	90	-	30	60	90	-	30	60	90
L(mm)	951	1011	1071	1131	1191	1251	1311	1371	1431	1491

CDLB115-C1-M4模组配置和性能参数/Configuration & Performance Parameter

配置/Configuration:	
电机/Motor	M4-W075　电源线长:200mm
驱动/Drives	持续电流:2.5A　峰值电流:10A
反馈/Feedback	标准:DMA-010　1.0μm分辨率　配线长度:200mm 高精度:DH-010　1.0μm分辨率　配线长度:200mm
导轨/Guide	外嵌式双导轨
性能参数/Performance Parameter:	
推力/Thrust	持续推力:203N　峰值推力:812N
负载/Load	在加速度1G、速度1000mm/s、驻留时间0.2s、运行1000mm行程情况下 水平安装:负载≤35kg, 侧挂安装:负载≤20kg, 最高运行限速2000mm/s
精度/Accuracy	标准:重复精度:±5μm　高精度:重复精度:±2μm
直线度/Straightness	±10μm/300mm
模组重量/Weight	60mm行程9kg(每增加60mm行程增加0.75kg)
安装方式/Installation Methods	水平安装/侧挂安装

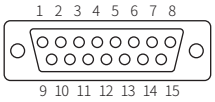
电控与驱动
Electricity Control & Driver

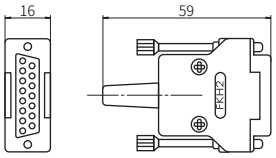
直线电机接口定义
Linear Motor Interface Definition



电机插头
Motor Connector:63080-4P

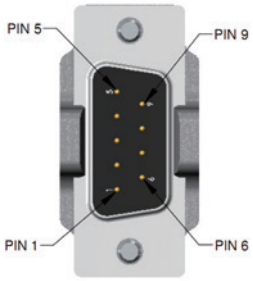
序号/NO.	1	2	3	4
标注 Label	U	V	W	PE
功能 Function	电机相线 Motor Phases	电机相线 Motor Phases	电机相线 Motor Phases	保护地 PE
颜色 Colour	红+黄 Red+Yellow	蓝+绿 Blue+Green	棕+黑 Brown+Black	白+屏蔽 White+Shield





MS15光栅插头
Optical Encoder Connector:D-Sub 15P,Male

序号/NO.	2	4	5	6	7	8	9	10	11	12	13	14
信号 Signal	GND	Z-	B-	A-	+5V	+5V	GND	S1	S2	Z+	B+	A+



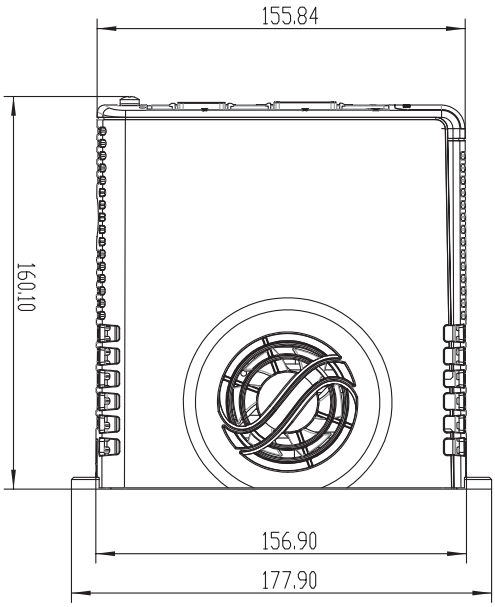
DME010磁栅插头
Magnetic Encoder Connector:D-Sub 9P,Male

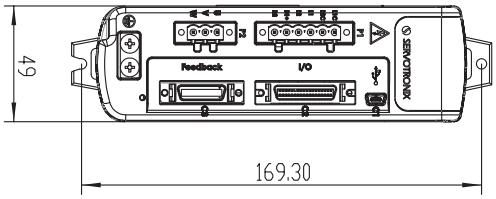
序号/NO.	1	2	3	4	5	6	7	8	9
信号 Signal	(不接NC)	Z+	B+	A+	+5V	Z-	B-	A-	GND

直线电机驱动器
Linear Motor Driver

型号/Model:
LBHD-0042AAP/LBHD-0042AEB

机械尺寸/Mechnical Dimensions:

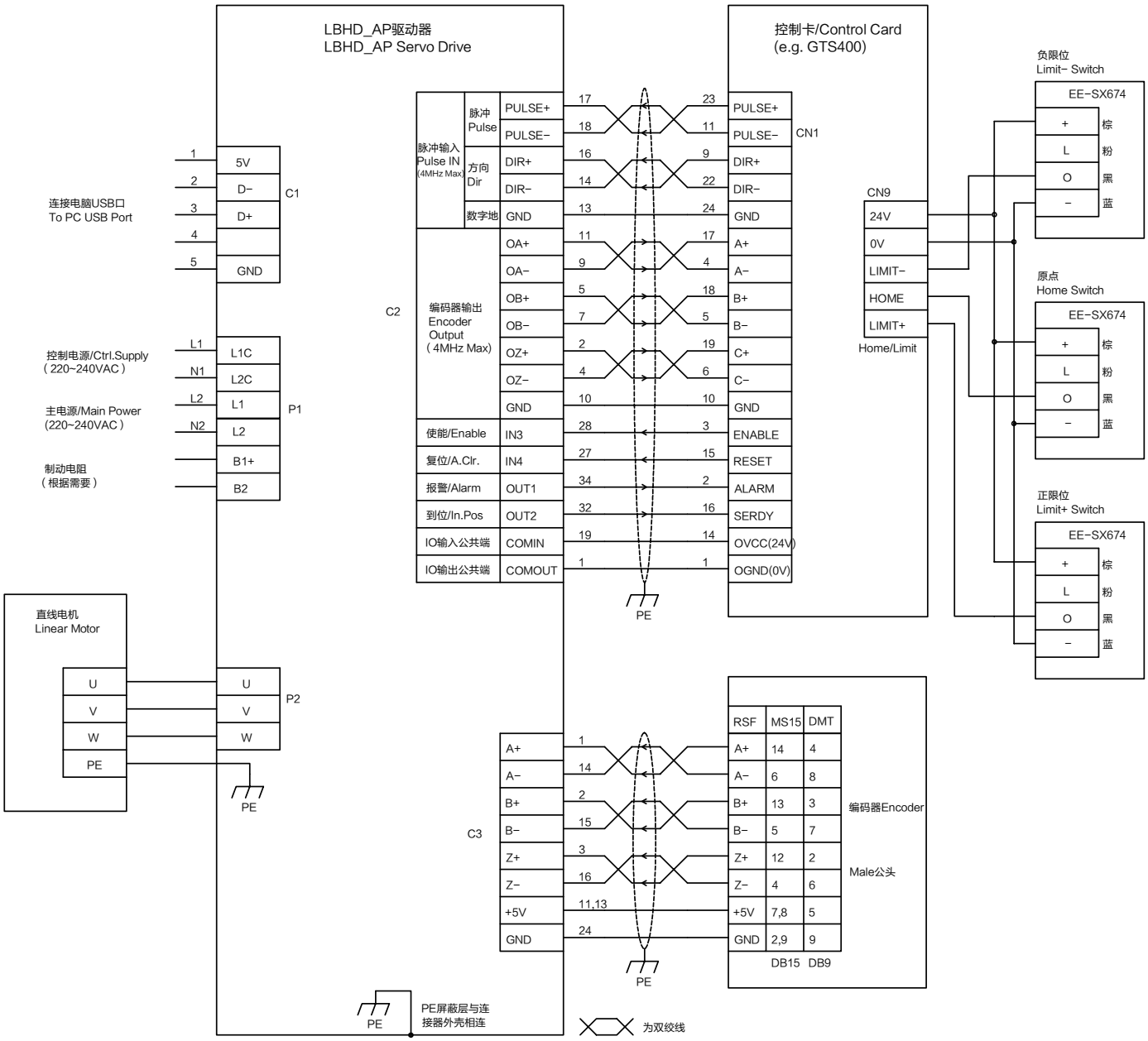




性能参数/Performance:	
主电源 Main Power	220VAC
控制电源 Control Power	220VAC
输出持续电流 Output Continuous Current	4.5Arms
输出最大电流 Output Peak Current	13.5Arms
控制方式 Control Mode	位置控制:脉冲/方向、正负脉冲、正交编码 Position:Pulse/Direction,CW/CCW,AqB
	EtherCAT 总线 EtherCAT mode
编码器接口 Encoder Type	增量式 A+,A-,B+,B-,Z+,Z- Incremental encoder
工作温度 Working Temperature	0°C ~ +45°C

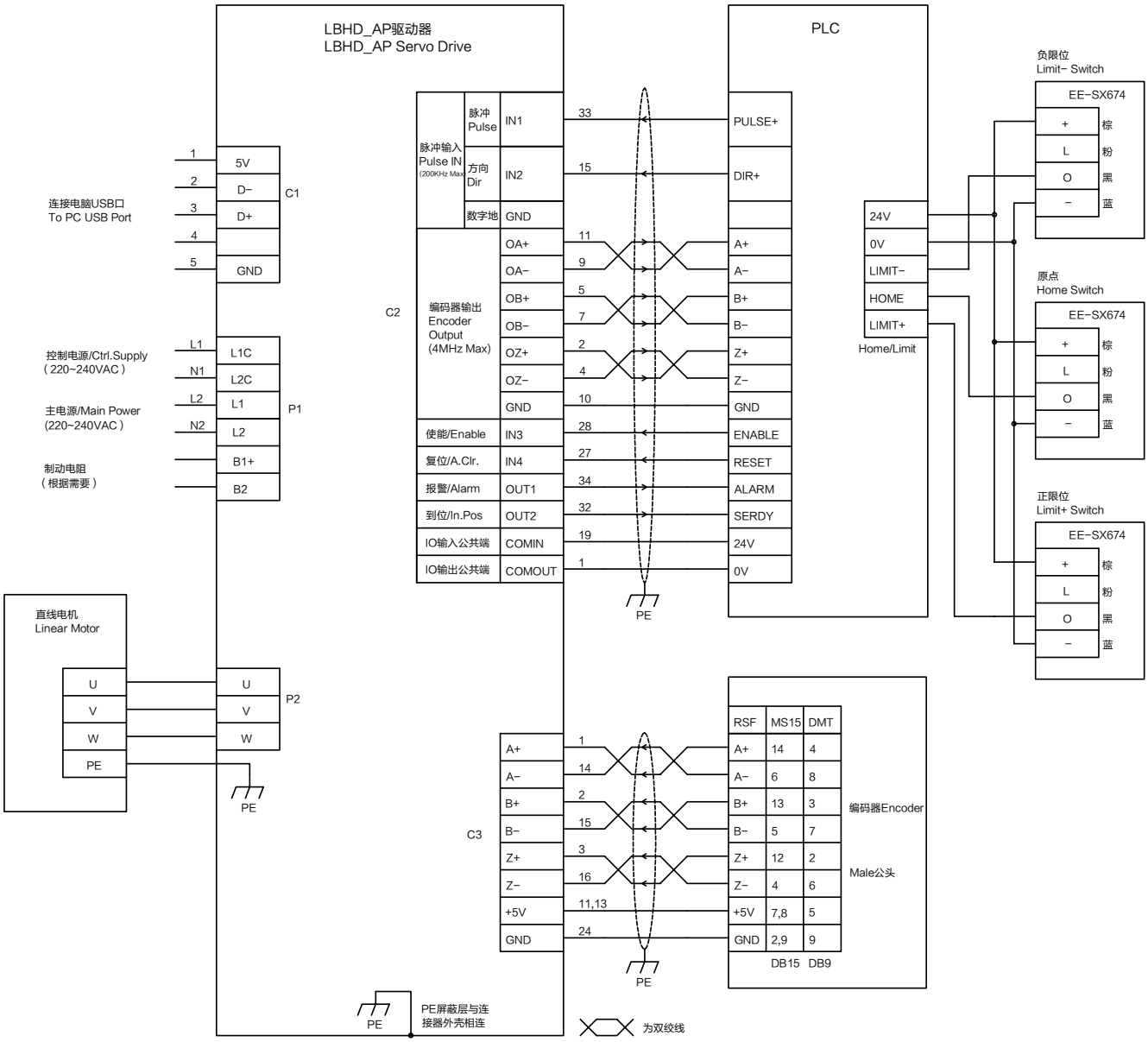
直线电机模组接线图
Linear Motor Module Wiring

驱动器/Motor Driver	LBHD-0042AAP
信号类型/Signal Type	差分信号/Differential
脉冲频率/Pulse frequency	4MHZ
控制电源/Control Power	220VAC
主电源/Main Power	220VAC



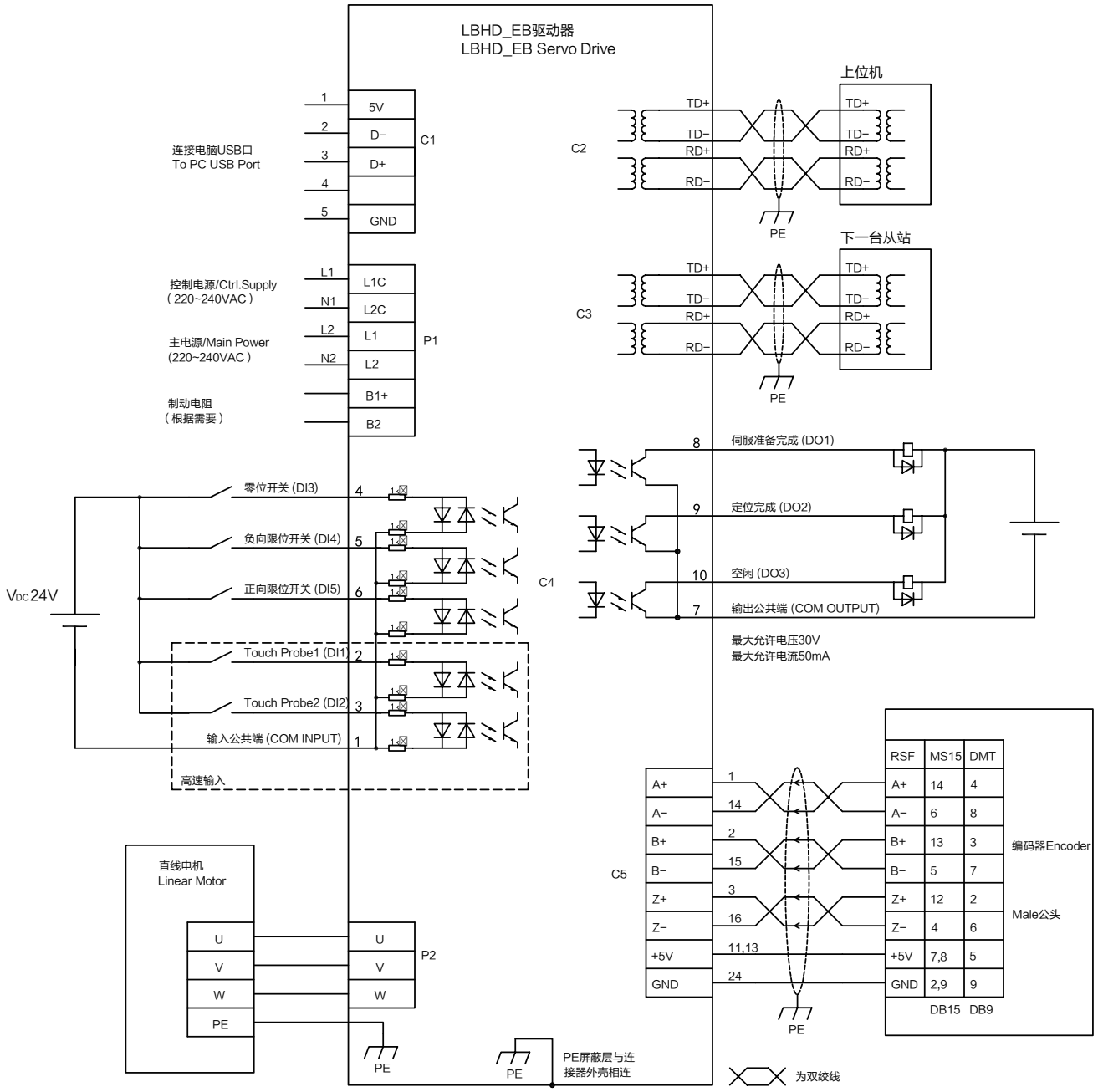
直线电机模组接线图
Linear Motor Module Wiring

驱动器/Motor Driver	LBHD-0042AAP
信号类型/Signal Type	单端信号/Single Ended
脉冲频率/Pulse frequency	200KHZ
控制电源/Control Power	220VAC
主电源/Main Power	220VAC



直线电机模组接线图
Linear Motor Module Wiring

驱动器/Motor Driver	LBHD-0042AEB
信号类型/Signal Type	E-CAT
控制电源/Control Power	220VAC
主电源/Main Power	220VAC



IO接头型号
IO connector type

驱动器 Drivers	LBHD-0042AAP	LBHD-0042A EB
品牌 Brands	3M	
IO接头 IO connector	10136-3000PE	36210-0100PL

线缆型号
Cable type

线缆类型 Cable Type	驱动器 Drivers	线缆型号 Cable type
动力线缆 Power Cables	LBHD	CB-HD-PW01.0
		CB-HD-PW03.0
		CB-HD-PW05.0
		CB-HD-PW10.0
		CB-HD-PW15.0
		CB-HD-PW20.0
光栅电缆 Optical grating cable		CB-LBHD-MS01.0
		CB-LBHD-MS03.0
		CB-LBHD-MS05.0
		CB-LBHD-MS10.0
		CB-LBHD-MS15.0
		CB-LBHD-MS20.0
磁栅线缆 Magnetic Grille Cable		CB-LBHD-MT01.0
		CB-LBHD-MT03.0
		CB-LBHD-MT05.0
		CB-LBHD-MT10.0
		CB-LBHD-MT15.0
		CB-LBHD-MT20.0

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CDLB

单轴机器人 SINGLE-AXIS ROBOTS

关于高创
About Servtotronix

Servotronix专门开发和制造以运动控制为重点的标准与定制自动化解决方案。过去几十年。公司专门针对客户的需求量身定制的设计，开发了数代高性能的伺报驱动器产品系列和运动控制解决方案，在形状、尺寸、功能及成本方面满足多种应用和行业中客户的具体要求。我们拥有来自全球的行业领先的机器制造商和自动化系统供应商客户。Servotronix的宗旨就是，为我们的客户提供高质量的产品，具有成本效益的解决方案，以及及时的产品交付。

Servotronix specializes in the development and manufacture of standard and custom automation solutions with a focus on motion control. Over the past decades, the company has developed several generations of high-performance servo drive series and motion control solutions tailored to customer needs, in terms of form, size, function and cost, to meet specific requirements in a wide range of applications and industries.
Our customers include industry-leading machine manufacturers and automation system suppliers from around the world. Servotronix's mission is to provide our customers with high quality products, cost effective solutions, and timely product delivery.

SERVOTRONIX always in motion