



SOLUTIONS FOR PROFESSIONAL
CHARGING EQUIPMENT
专业充电设备解决方案

UNION ELECTRICS

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UNION ELECTRICS



规格参数
SPECIFICATIONS

类型 Type	E3T1132/ E3T2132	E3T2332	E3T2232	E3T2432
交流功率 AC power:	1P+N+PE	3P+N+PE	1P+N+PE	3P+N+PE
电源电压 Power supply Voltage:	AC230~ ± 10%	AC400~ ± 10%	AC230~ ± 10%	AC400~ ± 10%
额定电流 Rated current:	10-32A			
最大功率 Maximum power:	7.4kW	22kW	7.4kW	22kW
频率 Frequency:	50-60Hz			
电缆长度 Cable length:	5m		Socket	
插座/插头 Sockets/plugs:	Type1/Type2	Type2		
重量 Weight:	5.6Kg	6.8Kg	3.45Kg	3.7Kg
IP等级 IP grade:	IP55			
工作温度 Working temperature:	-25℃ ~ 40℃			
冷却方式 Cooling mode:	cooling mode			
外壳颜色: Shell color	white/black			
特殊功能: Special function	RCM/DLB/RFID (optional)			
安装方式: Installation mode	wall (default)/column			

命名规则
NAMING RULES

E3T□□32

- 最大电流32A

1-单相; 3-三相;

2-单相插座; 4-三相插座;

1-美标; 2-欧标

E3系列
- Maximum Current: 32A

1-single phase; 3-three phase

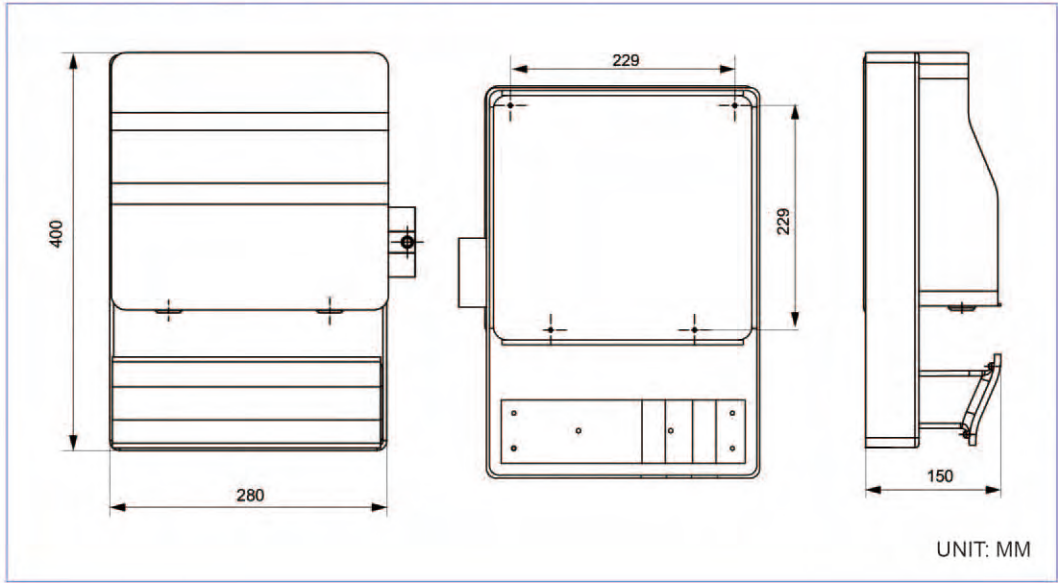
2-single phase socket outlet

4-three phase socket outlet

1-American Standard; 2-European standard

E3 series

外形及安装尺寸
APPEARANCE AND INSTALLATION SIZE

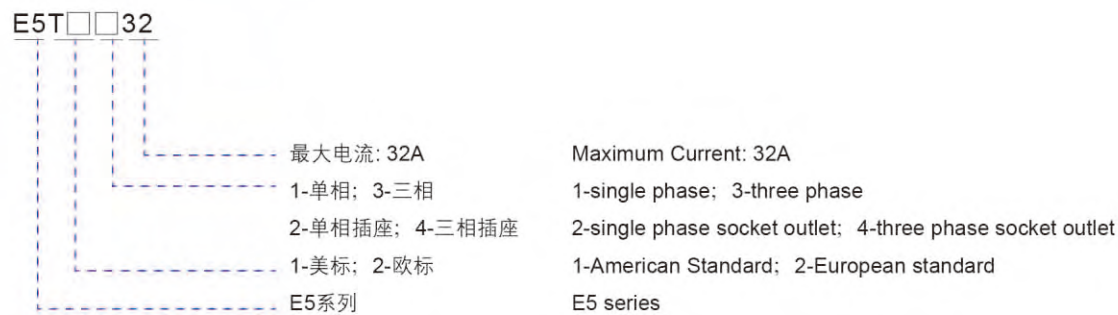




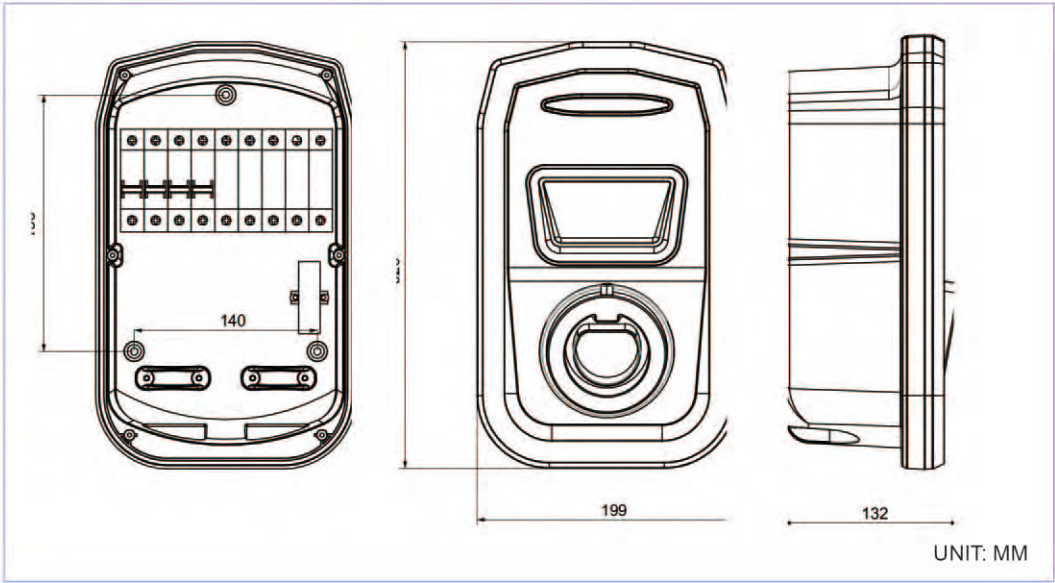
规格参数
SPECIFICATIONS

类型 Type	E5T1132/ E5T2132	E5T2332	E5T2232	E5T2432
交流功率 AC power:	1P+N+PE	3P+N+PE	1P+N+PE	3P+N+PE
电源电压 Power supply Voltage:	AC230~ ± 10%	AC400~ ± 10%	AC230~ ± 10%	AC400~ ± 10%
额定电流 Rated current:	10-32A			
最大功率 Maximum power:	7.4kW	22kW	7.4kW	22kW
频率 Frequency:	50-60Hz			
电缆长度 Cable length:	5m		Socket	
插座/插头 Sockets/plugs:	Type1/Type2	Type2		
重量 Weight:	4.4Kg	5.6Kg	2.65Kg	2.8Kg
IP等级 IP grade:	IP55			
工作温度 Working temperature:	-25℃ ~ 40℃			
冷却方式 Cooling mode:	cooling mode			
外壳颜色: Shell color	white/black			
外壳翻盖: Flip shell	optional			
特殊功能: Special function	RCM/DLB/RFID optional			
安装方式: Installation mode	wall (default)/column			

命名规则
NAMING RULES



外形及安装尺寸
APPEARANCE AND INSTALLATION SIZE





规格参数
SPECIFICATIONS

	TC132	TC232	TC332	TC432
AC power	1P+N+PE		3P+N+PE	
Power supply voltage	AC 230V ± 15%		AC 400V ± 15%	
Rated current	10-32A			
Frequency	50-60HZ			
Cable length	5M	Socket	5M	Socket
Sockets/plugs	2*plug type 2(1)	2*socket type 2	2*plug type 2	2*socket type 2
IP grade	IP55			
Environment temperature	-25℃ ~ 40℃			
Humidity	no condensation			
Cooling way	natural cooling			
Dimension(D*W*H mm)	240*340*120		395*260*125	
Weight(kg)	9.9	6.3	16	12
Installation mode	wall(default)/column			
Special function:	RCM/DLB optional			

特殊功能
SPECIAL FUNCTION

1. RCM版本

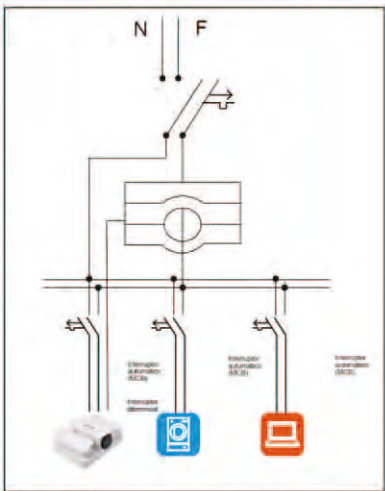
充电桩在充电中当有直流漏电产生时断开充电，漏电故障排除后会自动恢复正常，无需人为合闸。每次充电前控制器对RCMU进行自检，确保RCMU正常。

If DC leakage occurs during charging process, the charging pile will be disconnected, automatically recovered after eliminating leakage fault without manual operation. The controller will automatically inspect RCMU before every charging process to confirm normal condition of RCMU.

2. DLB版本

负载均衡（DLB）版本是为了实现家庭电量的合理使用，通过外接一个互感器到充电桩，互感器检测总电流超过设定的电流时，充电桩自身的充电电流会逐步降低，直到充电桩停止充电；当用电高峰过后，互感器检测总电流小于设定电流时，充电桩会自动启动，选择一个合适的电流档位充电，实现动态平衡。充电桩的充电电流不固定，根据实际的需求从10-32A变化，不可设定。

Dynamic load balancing (DLB) type is designed for reasonable usage of household electricity by connecting an external transformer to the charging pile. When the total current volume detected by the transformer exceeds the set current, the charging pile will gradually decrease charging current until the charging pile stops charging. When the total current detected by the transformer is less than the set current after the peak of electricity consumption, the charging pile automatically starts to realize dynamic balancing by selecting suitable current for charging. The charging current of the charging pile is not fixed, varied from 10A to 32A based on actual requirement, which cannot be set.



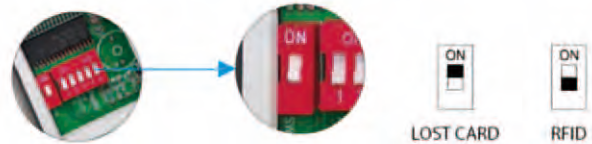
控制器充电电流的DIP设定开关变更为互感器电流设定，一个互感器就可以实现在不同场合下的电流设定。互感器到充电桩的接线距离可以达到150m以上。

DIP setting switch of charging current controller has been changed to transformer current setting, which can realize current setting by a transformer under different conditions. The wiring distance between transformer and charging pile can reach more than 150m.

3. RFID版本

可以实现刷卡充电，防止非授权用户使用，出厂配置5张卡。内置DIP开关有丢卡模式。

It can realize charging by card to prevent unauthorized users, totally five cards from the factory, which is built in DIP switch for card loss.



UNIT: MM



产品特性
PRODUCT CHARACTERISTICS

- 兼容所有电动汽车标准
- 全面保护:
 - 防雷保护
 - 漏电保护
 - 短路保护
- 安装方式: 壁挂/落地式
- Compatible with all the EVs Standards
- Full protection:
 - Lightning protection
 - Electric leakage protection
 - Short circuit protection
- Installation mode: wall/column mounted

规格参数
SPECIFICATIONS

Model No./PN	EV_smart_T2(1)132/T2232	EV_smart_T2332/T2432
Application	Commercial	
Voltage(Vac)	1-phase 230V ± 20%	3-phase 400V ± 20%
Frequency(Hz)	50/60Hz	
Current(A)	16A,32A,	
Charging Connector	SAE J1772 Type 1,Type-2 connector or Type-2 socket	
Charging Cable Length	16ft.(5m)	
RCD	Type-B RCCB	
Buttons	Emergency stop,physical adjustment	
Indications	Standby(Green),Charging(Flashing Green),Fault(Red),Waring(Flash Red)	
Wi-Fi	Optional	
4G	Optional	
RFID	ISO 1443 A/B·ISO 15693	
Display	7"LCD	
Data Pretocol	OCPP1.6J	
Operation Temp.	- 30℃ ~ 50℃/ 22 ~ 122	
Storage Temp.	- 40℃ ~ 70℃/ 40 ~ 158	
Working Humidity	5% ~ 95% without condensation	
Installation mode	Wall(default)/column	
IP Performance	IP54	
Dimension(D*W*H mm)	395*260*125mm	
Web Portal Management	Yes	
Mobile App	iOS/Android	



产品特点
PRODUCT CHARACTERISTICS

- 外形美观，手持式设计符合人体工程学原理，插拔便捷。
- 符合IEC62196-2 IEC62196-1标准。
- 优越防护性能，防护等级到达IP44。
- With exquisite appearance, its hand-held design is in line with principles of ergonomics, easy to plug in and pull out.
- It conforms to IEC62196-2 and IEC62196-1 standards.
- With superior protection performance, its protection level reaches IP44.

电气特征
ELECTRICAL PARAMETER

额定电流 Rated Current	16A/32A
工作电压 Rated Voltage	240V/415V
绝缘电阻 Insulation resistance resistance	> 1000MΩ, DC(500V)
端子温升 Terminal temperature rise	<50K
耐压 Withstand Voltage	2000V
接触抗阻 Contact Resistance	0.5mΩ Max

机械性能
MECHANICAL PERFORMANCE

空载插拔 No-load plug in/pull out	> 5000次 > 5000times
耦合时插拔力 Coupled insertion force	> 45N < 80N
抗冲击力 Withstanding Impact Force	可承受1米高度跌落与2吨汽车碾压： : Affordable for falling from one-meter height and crush by two-ton car

环境温度
AMBIENT TEMPERATURE

环境温度（工作） Ambient Temperature(working)	-30℃ ~ +50℃
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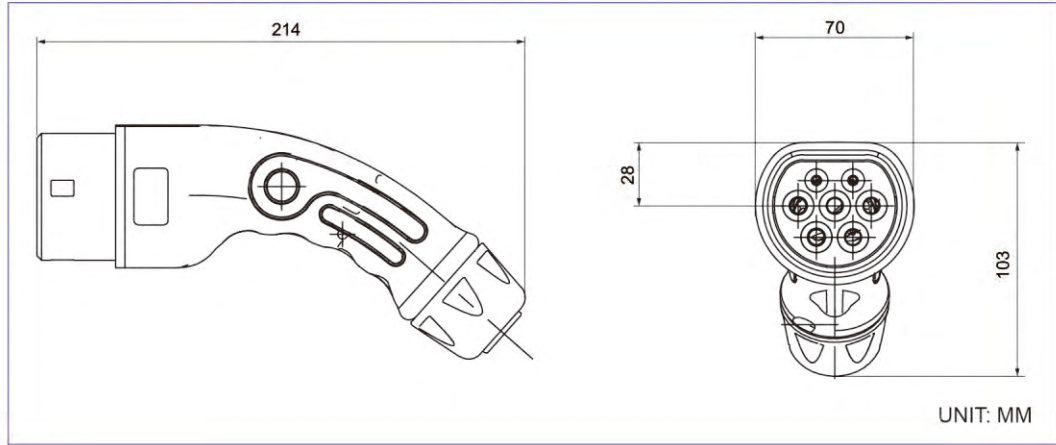
主要材料
MAJOR MATERIAL

外壳材料 Case Material	热塑性塑料、阻燃等级UL94V-0 Reinforced Themoplastic, UL94V-0
插套材料 Contact bush	铜合金+表面镀银 Copper Alloy, Ag Plated

产品选型与标准配置
Model No. SELECTION AND STANDARD CONFIGURATION

型号 Model No.	额定电流 Rated Current	线缆规格 Cable Specification
VTB-FP132-TC2	32A单相 Single phase	3 × 6mm ² + 2 × 0.5mm ²
VTB-FP332-TC2	32A三相 Three phase	5 × 6mm ² + 2 × 0.5mm ²

外形及安装尺寸
APPEARANCE AND INSTALLATION SIZE





产品特点
PRODUCT CHARACTERISTICS

- 外形美观，手持式设计符合人体工程学原理，插拔便捷。
- 符合SAE J1772-2010 标准。
- 优越防护性能，防护等级到达IP44。
- With exquisite appearance, its hand-held design is in line with principles of ergonomics, easy to plug in and pull out.
- It conforms to SAE J1772-2010 standards.
- With superior protection performance, its protection level reaches IP44.

电气特征
ELECTRICAL PARAMETER

额定电流 Rated Current	16A/32A
工作电压 Rated Voltage	240V
绝缘电阻 Insulation resistance	> 1000M Ω , DC(500V)
端子温升 Terminal temperature rise	< 50K
耐压 Withstand Voltage	2000V
接触抗阻 Contact Resistance	0.5m Ω Max

机械性能
MECHANICAL PERFORMANCE

空载插拔 No-load plug in/pull out	> 10000次 > 10000times
耦合时插拔力 Coupled insertion force	> 45N < 80N
抗冲击力 Withstanding Impact Force	可承受1米高度跌落与2吨汽车碾压: Affordable for falling from one-meter height and two-ton car crush

环境温度
AMBIENT TEMPERATURE

环境温度（工作） Ambient Temperature(working)	-30 $^{\circ}$ C ~+50 $^{\circ}$ C
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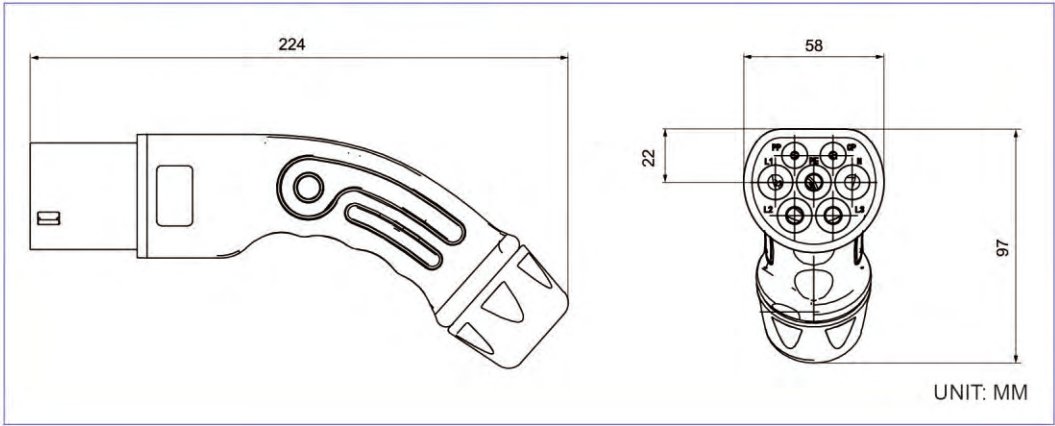
主要材料
MAJOR MATERIAL

外壳材料 Case Material	热塑性塑料、阻燃等级UL94V-0 Reinforced Themoplastic, UL94V-0
插针材料 Contact bush	铜合金+表面镀银 Copper Alloy, Ag Plated

产品选型与标准配置
MODLE SELECTION AND STANDARD WIRING

型号 Model No.	额定电流 Rated Current	线缆规格 Cable Specification
VTC-FP132TC1	32A	3 $\times$ 6mm ² + 2 $\times$ 0.5mm ²

外形及安装尺寸
APPEARANCE AND INSTALLATION SIZE





产品特点
PRODUCT CHARACTERISTICS

- 充电枪外形流畅简洁，手柄握感舒服，操作方便安全。
- 充电枪符合IEC 62196.2标准。
- 充电枪线线缆应用于电动汽车充电，可采用模式3充电。
- With smooth and concise appearance, the charging plug is characterized with comfortable handle, safe and convenient operation.
- The charging plug conforms to IEC 62196.2 standards.
- The charging plug cables are applied into charging of electric vehicle, which can be charged by mode 3.

电气特征
ELECTRICAL PARAMETER

额定电流 Rated Current	16A/32A
工作电压 Rated Voltage	240V/415V
绝缘电阻 Insulation resistance	> 1000MΩ, DC(500V)
端子温升 Terminal temperature rise	> 50K
耐压 Withstand Voltage	2000V
接触抗阻 Contact Resistance	0.5mΩ Max

机械性能
MECHANICAL PERFORMANCE

空载插拔 No-load plug in/pull out	> 10000次 > 10000times
耦合时插拔力 Coupled insertion force	< 100N(P) < 75n(V)
抗冲击力 Withstanding Impact Force	可承受1米高度跌落与2吨汽车碾压: Affordable for falling from one-meter height and crush by two-ton car

环境温度
AMBIENT TEMPERATURE

环境温度（工作） Ambient Temperature(working)	-30℃~+50℃
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主要材料
MAJOR MATERIAL

外壳材料 Case Material	热塑性塑料、阻燃等级UL94V-0 Reinforced Themoplastic, UL94V-0
插针材料 Contact bush	铜合金+表面镀银 Copper Alloy, Ag Plated

产品选型与标准配置
MODLE SELECTION AND STANDARD WIRING

型号 Model No.	额定电流 Rated Current	线缆规格 Cable Specification
VCB-M2F2-132	32A	EV 3 × 2.5mm ² + 2 × 0.5mm ²
VCB-M2F2-332	32A	EV 5 × 6.0mm ² + 2 × 0.5mm ²

EUROPEAN STANDARD 欧标

产品选型与标准配置
MODEL SELECTION AND STANDARD CONFIGURATION

型号 Model No.	额定电流 Rated Current	线缆规格 Cable Specofocation
VCC-M2F1-132	32A	EV 3 × 6.0mm ² + 2 × 0.5mm ²

AMERICAN STANDARD 美标



产品特点
PRODUCT CHARACTERISTICS

- 外形美观，上翻盖防护，支持前安装方式。
- 可靠性材料，阻燃、耐磨、耐冲击、高抗油。
- 符合62196-2 IEC SHEET2-IIa标准。
- 优越防护性能，防护等级达到IP44。
- It has exquisite appearance, upper clamshell protection, which supports for front installation mode.
- Adopting reliable materials, it is characterized with flame retardant, wear resistant, impact resistant and high oil resistant.
- It conforms to SHEET2-IIa of IEC62196-2 standard. With superior protection performance, its protection level reaches IP44.

命名规则
NAMING RULES

VTC-FS□□32-T2

欧标
最大电流32A
1-单相；3-三相
A: 方型插座 B: 圆形插座
企业代号

European standard
Maximum current: 32A
1-single phase; 3-three phase
A: Square socket; B: Round socket
Enterprise code

电气特征
ELECTRICAL PARAMETER

额定电流 Rated Current	16A/32A
额定电压 Rated Voltage	250V/415V
绝缘电阻 Insulation resistance	>1000MΩ (DC1000V)
端子升温 Terminal temperature	>1000MΩ (DC1000V)
耐压 Withstand Voltage	2000V
接触阻抗 Contact Resistance	0.5mΩ Max

机械性能
MECHANICAL PERFORMANCE

空载插拔 No-load plug in/pull out	>10000次 >10000times
耦合时插拔力 Coupled insertion force	<100N(P) <75N(V)
抗冲击力 Withstanding Impact Force	可承受1米高度跌落与2吨汽车碾压: Affordable for falling from one-meter height and crush by two-ton car

环境温度
AMBIENT TEMPERATURE

环境温度（工作） Ambient Temperature(working)	-30℃~50℃
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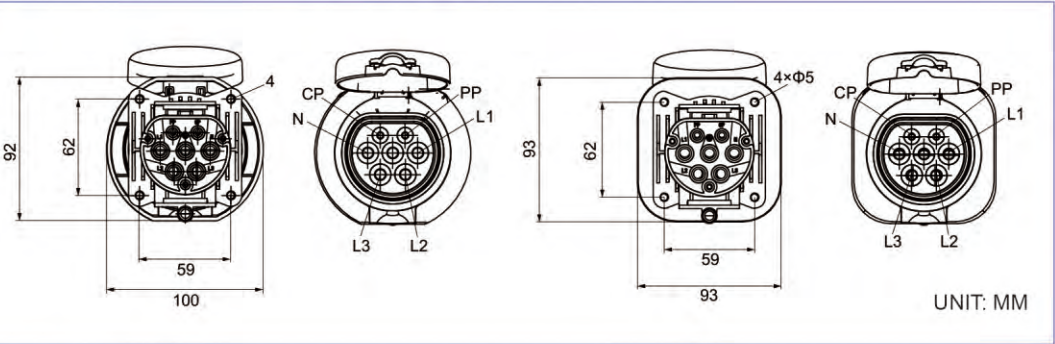
主要材料
MAJOR MATERIAL

外壳材料 Housing Material	热塑料材料、阻燃等级UL94V-0 Reinforced Themoplastic, UL94V-0
插针材料 Pin Material	铜合金+表面镀银 Copper Alloy, Ag Plated

产品选型与标准配置
MODEL SELECTION AND STANDARD CONFIGURATION

型号 Model No.	额定电流 Rated Current	线缆规格 Cable Specification
VTC-FSA132-T2	32A单相 single phase	3 × 6.0mm ² + 2 × 0.5mm ²
VTC-FSA332-T2	32A三相 three phase	5 × 6.0mm ² + 2 × 0.5mm ²
VTC-FSB132-T2	32A单相 single phase	3 × 6.0mm ² + 2 × 0.5mm ²
VTC-FSB332-T2	32A三相 three phase	5 × 6.0mm ² + 2 × 0.5mm ²

外形及安装尺寸
APPEARANCE AND INSTALLATION SIZE



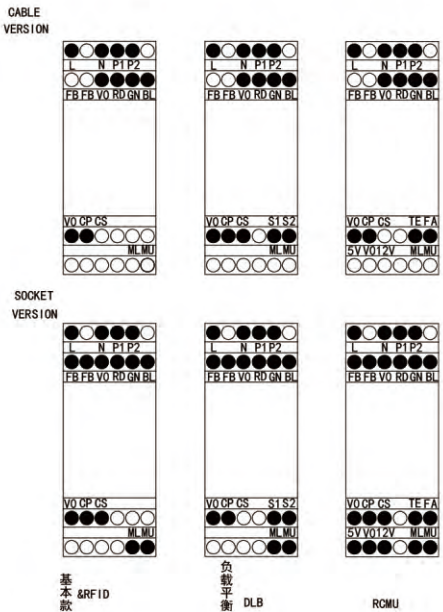
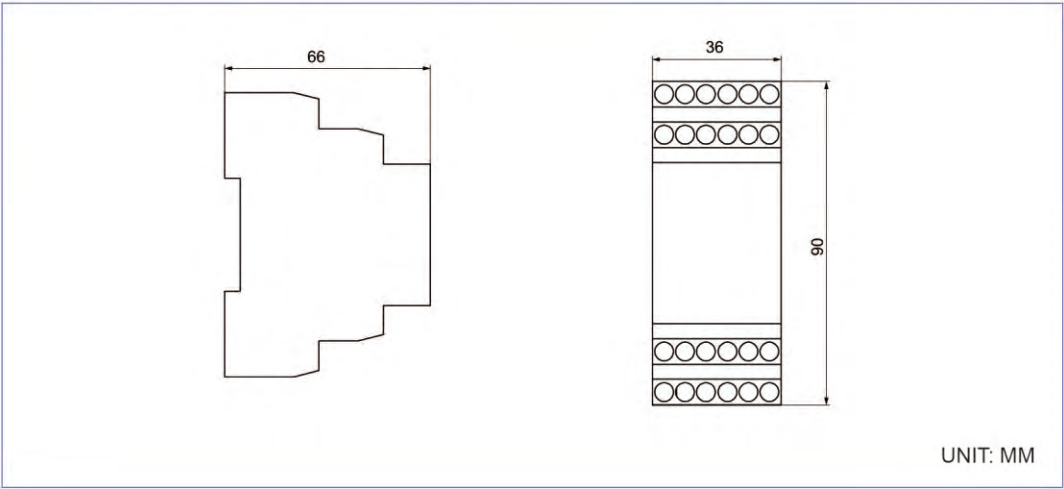


端子排列图
TERMINAL ASSIGNMENT

TERMINAL		DESCRIPTION
L	火线 Live wire	This is where the AC 'live' or 'line' connection is made (90-264V @ 50/60 Hz AC)
N	零线 Null line	This is where the AC 'neutral' connection is made (90-264V @ 50/60 Hz AC)
P1	继电器输出 Relay output	Relay 1 live from RCCB
P2	继电器输出 Relay output	Relay 1 live from RCCB
GN	绿灯 Green lamp	For external LED connection for green indication(5V 30mA)
BL	蓝灯 Blue lamp	For external LED connection for blue indication (5V 30mA)
RD	红灯 Red lamp	For external LED connation for red indication (5V 30mA)
VO	电源地 Power supply	This is where the 'ground' connection is made
CP	连接到电动车的PWM控制信号线 Connect to PWM controlling signal wire of electrical vehicle	This connects to the CP connector on the IEC61851/J1772 EVSE connector
CS	连接到电动车的线缆规格控制信号线 Connect to controlling signal wire for wire specification of electrical vehicle	This connects to the PP connector on the IEC61851 EVSE connector
ML	枪锁正极 Positive lock	this provides 12v 300ma for 500ms to engage the lock for motorised locks.
MU	枪锁负极 Negative lock	this provieds 12v 300ma for 50ms to disengage the lock
FB	枪锁反馈信号 Feedback signal of lock	Reads lock feedback for motorised locks
5V/12V	电源 Power supply	Power: 5V/12V
FA	RCMU故障信号 RCMU fault signal	RCMU FAULT
TE	RCMU测试信号 RCMU test signal	RCMU TEST
S1	DLB互感器 DLB transformer	DLB
S2	DLB互感器 DLB transformer	DLB

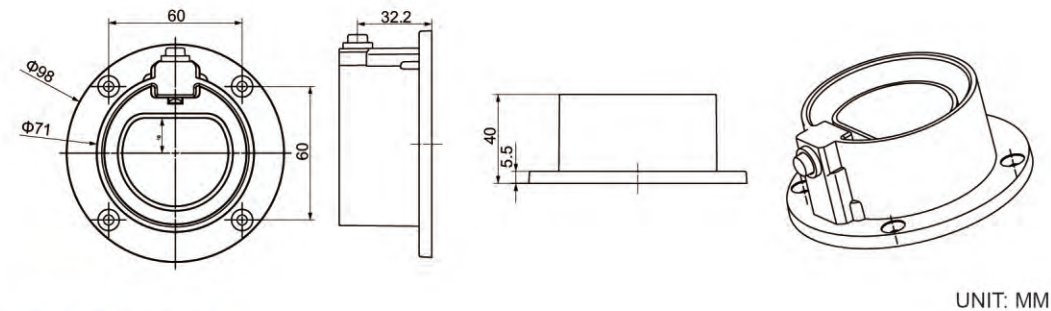
控制器版本
TYPE OF CONTROLLER

安装尺寸图
APPEARANCE AND INSTALLATION SIZE





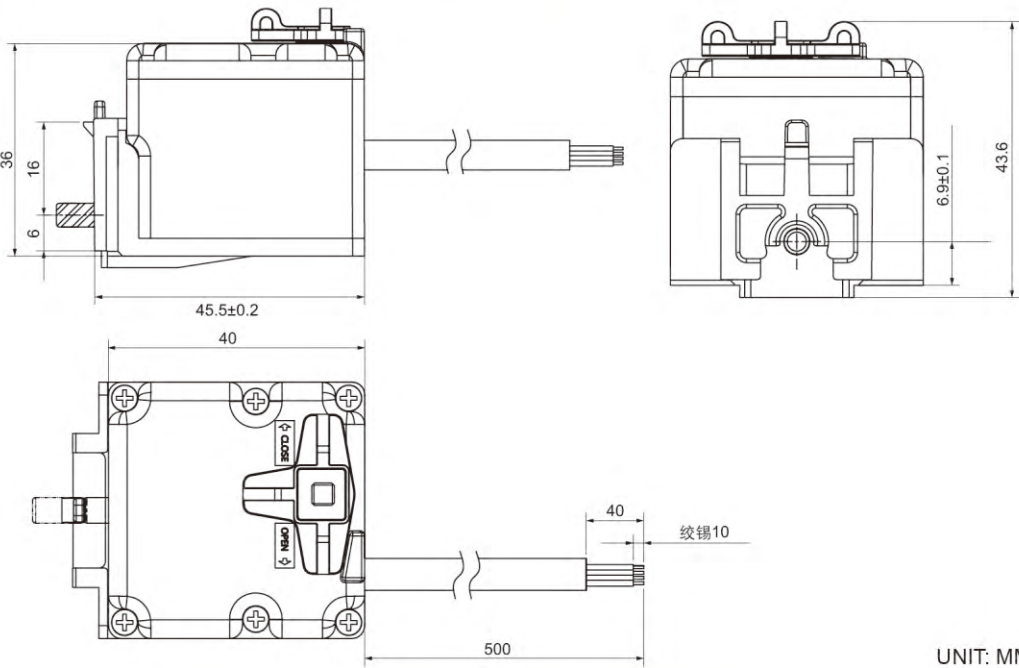
固定器外形及安装尺寸
APPEARANCE SIZE



电锁技术特性表
TECHNICAL SPECIFICATIONS

额定电压 Rated voltage	脉冲 Pulse
电压范围 Voltage range	10.5 TO 13.5 VDC
空载电流 No-load current	≤200mA
最大电流 Maximum current	≤650mA
热过载保护 Thermal overload protection	Not available
锁定杆保持力 Locking lever retention force	≥80N
锁定杆断裂力 Locking lever breaking force	≥200N
转动驱动角度 Functional angle	≤90°
响应时间 Response time	≤100ms
最大通电时间 Maximum powering time	3s (不可长时间导通Not allowed for long time conduction)
完成时间 Completion time	<300ms
温度等级 Temperature grade	-40T85
电气寿命 Electrical life	≥3E4 cycles
绝缘电阻 Insulation resistance	DC500V 1MΩ
外壳防护等级 Protection level of shell	IEC IP55
单次通电时间 Single powering time	DC12V 0.2S<t<1S
工作占空比 Operation duty ratio	DC12V ON:OF=1S:3S
手动解锁拉力 Manual unlocking pull	≤5N (最大允许值 Allowed maximum value)
手动解锁寿命 Manual unlock life	≥3E3 cycles

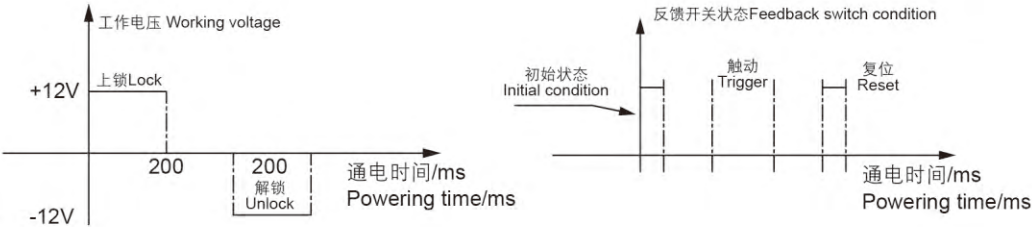
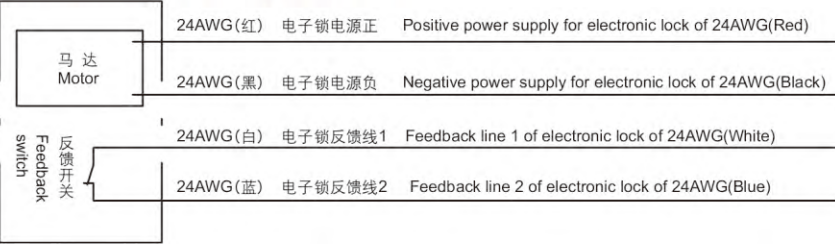
电锁外形及安装尺寸
APPEARANCE AND INSTALLATION SIZE



电子锁电控示意图Electronic controlling schematic diagram of electronic lock

12V (电源+) 红色线 12V (positive power supply) , red	GND黑色线 Black line	电子锁状态 Electronic lock condition	反馈开关状态 Feedback switch condition
+	-	锁止状态 Lock condition	导通 (闭合) Conduction (closed)
-	+	解锁状态 Unlock condition	断开 Disconnected

电气连接原理Electrical wiring principle



This image shows a blank sheet of white paper with horizontal dashed lines, typical of primary-ruled notebook paper. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.[illegible]