

GB/T AC Electronic lock

Product Introduction

The electronic locks developed and produced by AUPINS are mainly used in national standard AC charging sockets on new energy vehicles and national standard pile charging sockets. During the product development process, technical points such as the size of the electronic lock actuator, dual-position signal feedback for locking/unlocking, and overall \geq IP66 protection performance were fully considered. The current advanced clutch unlocking method for manual unlocking ensures unlocking reliability and other technical points are overcome and solved. Problems and concerns customers encounter when using electronic locks.



Product Features

- Conform to the provisions and requirements of GB/T18487.1-2015
- Use ultrasonic welding process, with small size and beautiful appearance
- Have a signal feedback function and manual emergency unlocking function.
- Special internal waterproof protection performance, protection grade achieved IP66
- Reliable material, flame retardant, pressure resistance, abrasion resistance, impact resistance, and high oil resistance.

Technical performances

01 Mechanical Performance

Drive time: 500ms (12V.dc, normal temperature)
 Lock rod push and pull force: \geq 35N (12V.dc, normal temperature)
 Life span: 60000 cycles (12V.dc, normal temperature, power-on time 500ms, interval 3s)
 Cable specifications: FLY-B 0.5 square (insulation outer diameter ϕ 1.5mm~ ϕ 1.6mm)

03 Environmental performance

Working temperature: -40°C~85°C
 Protection level: \geq IP66

02 Electrical performance

Rated voltage: 12V.dc
 Working voltage: 9V.dc~16V.dc
 Rated current : \leq 1A;
 signal switch current: \leq 0.1A
 Locked rotor current: \leq 2.5A

Insulation resistance: 500V.dc, 1min
 insulation resistance \geq 100M Ω
 Withstand voltage performance: 500V.ac, 1min
 leakage current: \leq 10mA

Performance Specifications

DC adapter				
Code	Type	Rated voltage	Rated current	Insulation resistance
11001	AP-GAC-CS	AC input: 250V/440V	10A、16A、32A	2500V
11002	AP-GDC-CS	DC input: 750V	80A、125A、200A、250A	4500V
11003	AP-GDC-LOCK	12V.dc	\leq 1A	500Vac,1min leakage current \leq 10mA
11004	AP-SAC-CS	AC input: 250V.ac	16A、32A	2500V.ac
11005	AP-SCCSI-CS	AC input: 250V.ac DC input: \leq 1000V.dc	AC input: 16A、32A DC input: 125A、150A	3000V.ac
11006	AP-IAC-CS	AC input: 250V.ac	AC input: 16A、32A	2000V.ac
11007	AP-ICCS2-CS	AC input: 250V.ac DC input: 1000V.dc	AC input: 16A、32A DC input: 125A、150A、200A	3000V.ac
11008	AP-IDC-ES	12VDC	\leq 1A	500Vac,1min leakage current \leq 10mA
11009	AP-CHAdEMO-CS	DC input: 750V.dc	80A、125A、150A、200A	3000V.ac