浙江华耕电子科技有限公司

ZHEJIANG HUAGENG ELECTRONIC TECHNOLOGY CO. LTD

ELECTRICAL PARTS FOR MARINE RV & CARAVAN

Company profile

浙江华耕电子科技有限公司成立于2018年，自有现代化独栋厂房，公司坐落于美丽的港口城市宁波，我们是一家具备科技创新能力设计、研发、生产、销售服务为一体专业制造商。

华耕科技立志成为12V&24V行业的领导者，主要为四驱车、露营车、拖车、房车、休闲车、游艇以及户外休闲市场提供完整的电源系统解决方案和应急启动解决方案。公司主要产品有12V&24V智能应急启动电源、整车电源控制系统、船用电源控制系统、12V-48V电源集成控制箱、高压直流继电器12V-48V锂电池组、 电池充电器、车载逆变器、以及12V&24V配件。我们拥有世界先进的研发核心技术，高效优质的供应链配套资源先进的生产设备和检测设备。自主研发产品获得各项产品专利以及产品设计均符合相关认证要求。我们支持OEM和ODM合作方式，我们始终坚持三个第一的经营理念：品质第一、客户第一、服务第一为经营理念。 以质量求生存，以科技创新技术求发展，秉持“科技创新、 持续改进、 质量保证、客户满意的经营方式”，力争发展成为国际专业性最强、规模最大的企业之一。竭诚欢迎各界精英人士，携手共创美好明天。我们将始终坚持为全球创造商业价值和社会价值而努力奋斗终身。

我们的愿景：成为细分领域世界知名品牌，成为实现所有合作伙伴梦想的平台。

我们的核心价值观：创新、诚信、共赢，责任、真诚、感恩、自信、快乐

我们的使命：让车船电路系统安全无忧，让生活更美好。

Zhejiang Huageng Electronic Technology Co., Ltd. was established in 2018 and operates in a modern standalone factory located in the beautiful port city of Ningbo. We are a professional manufacturer that integrates technological innovation, design, R&D, production, and sales services.

Huageng Technology is committed to becoming a leader in the 12V & 24V industry, primarily providing complete power system solutions and emergency start solutions for four-wheel drive vehicles, camping vehicles, trailers, recreational vehicles, leisure vehicles, yachts, and the outdoor leisure market. Our main products include 12V & 24V intelligent emergency start power supplies, vehicle power control systems, marine power control systems, 12-48V power integration control boxes, high-voltage DC relays, 12V-48V lithium battery packs, battery chargers, inverters, and 12V & 24V accessories.

We possess the advanced world-class core R&D technologies, efficient and high-quality supply chain resources, advanced production and testing equipments. Our independently developed products have obtained various patents, and our product designs all meet the relevant certification requirements.We support the OEM and ODM cooperation and consistently adhere to our business philosophy: "Quality first, Customer first and Service first." We insist in "Quality first" as foundation, develop through technological innovation, and uphold a business belief of "Technological innovation, Continuous improvement, Quality assurance, and Customer satisfaction." Our goal is to become one of the strongest and largest international professional enterprises. We sincerely welcome all the elites to join us to create a better tomorrow.

We are committed to creating global commercial and social value for life, and will strive for a lifetime.

Our vision: to become a world-renowned brand in our niche market and a platform for realizing the dreams of all our partners.

Our core values: Innovation, Integrity, Mutual Benefit, Responsibility, Sincerity, Gratitude, Self-confidence, and Happiness.

Our mission is to ensure that vehicle and vessel electrical systems are safe, and to make life better.

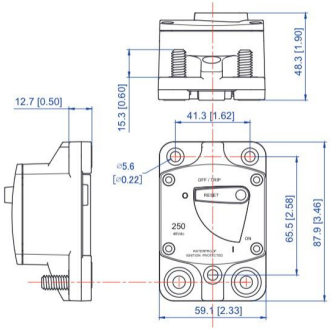
13

Circuit Breakers

- Single Pole Thermal Circuit Breaker
- Push-Button Circuit Breaker

AOE187F Surface mount

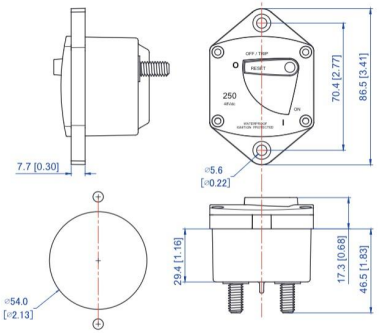
New Product



Rate current	25A	30A	40A	50A	60A	70A	80A	90A	100A	120A	135A	150A	180A	200A	250A	300A

AOE187P Panel mount

New Product



Rate current	25A	30A	40A	50A	60A	70A	80A	90A	100A	120A	135A	150A	180A	200A	250A	300A

SW CB (2 in 1) 187F, 187P available in all rating, 25 ~ 300A

Wire size for >90-120A #2(32mm), >120-150A #0(50mm), >150-200A #00(62mm), >200-300A #000(85mm)

Rate current: 25-300A
Rate voltage: 48Vdc

T3, manual reset
Interrupt rating: 5KA @ 14Vdc
3KA @ 24Vdc
1.5KA @ 48Vdc
Ultimate trip: Hold 100% @ 25C° / 77F°
must trip @ 135% rate current within 60 min.
# of switching: 3K cycles @ rate current / voltage

X: Terminal Hardware code

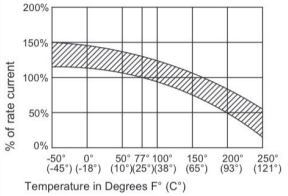
7	Stainless steel, NYlock nuts
8	Hex flange nut, stainless
9	Sems nut, tooth washer
0	none, without nut

Y: Hardware pack

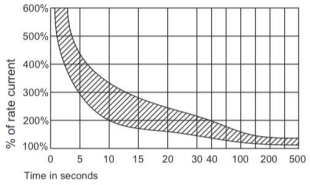
6	Nuts installed, clamshell bulk.
7	Nuts installed, box each pack
8	Nuts bulk, barriers pack
9	Nuts installed, barriers pack / blister tray
0	none, without nut

* ON/OFF switch: capable of withstanding 3K cycles @ 48Vdc
* Housing is thermal plastic UL rated 94V0.
* Splash and dust proof at IP66 grade. .
* Operating temperature: -40C° to 85C° (-40F° to 185F°)
* Storage temperature: -40C° to 125C° (-40F° to 260F°)
* Stud size: 5/16"-18 and 3/8"-16 threads per inch.
* Torque rating: 5/16"@ 75 in-lb(8.5 Nm), 3/8" @ 100 in-lbs
* Rivet by cooper with nickel plated, Stud by stainless.
* Meet SAE J553(≤200A), J1171, UL1500 (Ignition protected), ABYC E11

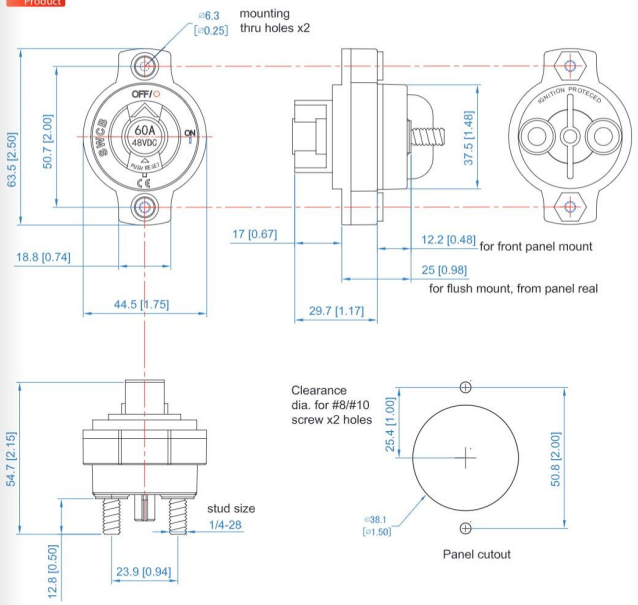
TEMPERATURE DERATING CURVES

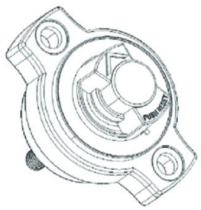


TIME VS. PERCENT OF RATED CURRENT



New Product


⌀6.3
[⌀0.25]
mounting
thru holes x2
OFF
60A
48VDC
ON
63.5 [2.50]
50.7 [2.00]
37.5 [1.48]
IGNITION PROTECTED
17 [0.67]
12.2 [0.48]
for front panel mount
25 [0.98]
for flush mount, from panel real
18.8 [0.74]
44.5 [1.75]
29.7 [1.17]
54.7 [2.15]
stud size
1/4-28
12.8 [0.50]
23.9 [0.94]
Clearance
dia. for #8/#10
screw x2 holes
25.4 [1.00]
50.8 [2.00]
⌀38.1
[⌀1.50]
Panel cutout



60A
48VDC

SW CB (2 in 1) battery disconnect with circuit breaker

standard in 10,15,20,25,30,35,40,45,50,60,70 Amp
(additional amp rating, consult to factory)

Rate current: 10-70A Rate voltage: 48Vdc
Endurance (overload): per SAE553, >100 @4X-48Vdc
Endurance (switching): per UL1107 @100% rate current 48Vdc
10-25A >6000, 30-45A >5000, 50-70A >4000 cycles
on-1s, off-5s
Ultimate trip: Hold 100% of rate current at 25C° / 77F°
Trip at 135% of rate current within 1 hour
(specific higher ambient calibration are available, consult to factory)

X: mounting hardware
Stainless steel sems nuts, installed

0	#10 eyelet, no mounting hardware
9	mounting nut, #8-32 screw (bluk) 付 #8-32 螺絲 (散裝)
8	with mounting nut, no screw 付螺帽, 不付螺絲

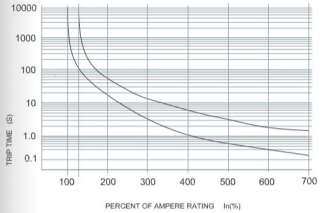
Y: hardware pack

0	none, no nut / mounting screw
9	screws bulk, blister tray
8	screws installed, blister tray
7	screw installed, box each pack
6	screw installed, clamshell bulk.

* Housing is thermal plastic UL rated 94V0.
* Splash and dust proof at IP66 & IP67 grade.
* Operating temperature: -40C° to 85C° (-40F° to 185F°)
* Dielectric Strength: 2000Vac minimum
* Meet SAE J553, J1171/ ISO 8846/ UL1500 (Ignition protected)
* Corrosion, Humidity: MIL-STD-202
* Shock, Vibration, CE

SWITCH function description

Switch ON, continuity	breaker and circuit are active.
Switch ON, NO continuity	breaker trip, push to reset the breaker
Switch OFF, NO continuity	breaker and circuit both OFF



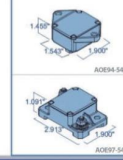
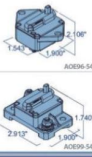
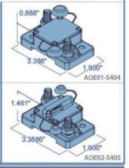
operating time

10-70Amp	
X rating	by sec.
1X	>1800
1.35X	<1200
2X	10-80
4X	1-6
6X	0.35-2
8X	0.18-1.4

derating factor

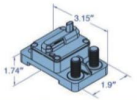
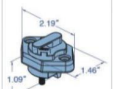
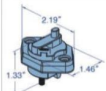
ambient temp.	factor
-65F/-54C	0.83
0F/-17C	0.87
32F/0C	0.93
77F/25C	1.00
100F/38C	1.11
140F/60C	1.25

Hi-Amp Circuit Breakers — cross to 18X

	AOE94-5400	AOE95-5401	AOE96-5403	AOE91-5404
Mouting	Panel Mount			Wide Surface Mount
FunctionType	Thermal Trip-free, Cycling	Thermal Trip, Manual Reset	Thermal Trip with Manual on-off	Thermal Trip-free, Cycling
	AOE97-5411	AOE98-5409	AOE99-5410	AOE92-5405
Mouting	Surface Mount			Wide Surface Mount
FunctionType	Thermal Trip-free, Cycling	Thermal Trip, Manual Reset	Thermal Trip with Manual on-off	Thermal Trip, Manual Reset
Number of Poles	Single Pole, Normal Closed		Single Pole Single Through	Single Pole, Normal Closed
Maximum Current & Voltage Ratings	25-150A@30Vdc	25 - 150A@ 48Vdc		25-300A
Calibrarion @ 25C	100% Hold, 135% Trip (percent of rating)			
Maximum Interrupting Capacity	T1, 25-200A, 3KA@32Vdc, 2KA@72Vdc T1/T3, 180-250A, 2.5KA@14Vdc, 2KA@26Vdc		**T3, 25-150A, 5KA@16Vdc, 3KA@32Vdc, 2KA@72Vdc**	
Termination	1/4" - 28 Studs			3/8" - 16 Studs 1/4" - 28 Studs
Compliances	SAE J1625; SAE J533; UL1500; SAE J1171(Ignition Protected); IP67; ABYC-E11; CE; Mil-STD-202			
Dimensions (inches)	 AOE94-5400	AOE95-5401	 AOE96-5403	 AOE91-5404
	AOE97-5411	AOE98-5409	AOE99-5410	AOE92-5405

Stud Type Circuit Breakers — cross to 12X

		Automatic Reset (Type I)			Modified Reset (Type II)	
Metal Cabinet	AOE5110	AOE5111	AOE5113	AOE5114	AOE5115	AOE5119
Plastic Cabinet	AOE5130	AOE5131	AOE5133	Manual Reset (Type III) AOE5134	AOE5135	AOE5139
FunctionType	Thermal Trip-free, Cycling			Thermal Trip, Modified or Manual reset		
Number of Poles	Single Pole, Normal Closed					
Ratings	5-50A, 14Vdc / 28Vdc					
Calibrarion @ 25C	100% Hold, 135% Trip (percent of rating)					
Maximum Interrupting Capacity	Branch Circuit Protection: 2.5KA @ 12 Vdc Main Circuit Protection: 1.5KA @ 12 Vdc					
Termination	#10 - 32 Thread and Quick-Connect options available					
Mouting	Stud Mount or Bracket Mount					
Compliances	SAE J553 ; SAE J1171, ISO 8846(Ignition Protected)					
Dimensions (inches)	**Metal Cabinet** AOE5110	AOE5111	AOE5113	AOE5114	AOE5115	AOE5119
	Plastic Cabinet AOE5130	AOE5131	AOE5133	AOE5134	AOE5135	AOE5139

	E9ABC		Median CB		
	AOE9C-5504 (Switchable)		AOE51-5500	AOE54-5501	AOE55-5503
FunctionType	AOE9A-5504 T1-Auto Reset	AOE9B-5504 T3-Manual Reset	T1-Auto Reset	T3-Manual Reset	T3-Manual Reset (Switchable)
Maximum Current & Voltage Ratings	25-300A @32Vdc		10-70A @ 32Vdc		
Calibrarion @ 25C	100% Hold, 135% Trip (percent of rating)		100% Hold, 135% Trip (percent of rating)		
Interrupt Rating	3KA @32Vdc, 3KA @72Vdc		2.5kA per ABYC E-11		
Compliances	SAE J553, ISO 8846, SAE J1171(Ignition Protected); IP66; ABYC E-11				
Dimensions (inches)					

	Automotive Circuit Breakers					
	ACB, FCB or UCB Style		ATC Circuit Breaker (Low Profile)		cross to MINI	
	AOE5005	AOE5009	AOE5004	AOE5003	AOE5000	AOE5001
unit : mm In-line CB Holder						
Reset Type	T1, Auto Reset	T2, Modified	T3, Manual	T1, Auto Reset	T1, Auto Reset	T3, Manual
Maximum Current & Voltage Ratings	5-30A, 14Vdc		5-30A, 14Vdc / 28Vdc		5-30A, 14Vdc	5-30A, 14Vdc / 28Vdc
Interrupt Rating	per SAE J533 and ISO10924					
Color Code Rating	5Amps [LT. Brown (Tan)]; 6Amps [Moss Green]; 7.5Amps [Brown]; 10Amps [Red]; 15Amps [Blue]; 20Amps [Yellow]; 25Amps [White]; 30Amps [Green]					
Compliances	SAE J533; TUV, ISO10924		SAE J533; ISO 8846, SAE J1171(Ignition Protected), ISO10924, CE			

	cross to MAXI			cross to ATC		
	AOE5903	AOE5904	AOE5905	AOE5906	AOE5908	AOE5909
Dimensions (mm)						
Reset Type	T1, Auto Reset	T2, Modified	T3, Manual	T1, Auto Reset	T2, Modified	T3, Manual
Maximum Current & Voltage Ratings	5-60A, 14Vdc / 28Vdc			5-30A, 14Vdc		5-30A, 14Vdc / 28Vdc
Calibrarion @ 25C	100% Hold, 135% Trip (percent of rating)					
Maximum Interrupting Capacity	per SAE J533, ISO10924					
Termination	Compatiable with MAXI or ATC blades fuses					
Compliances	SAE J553, CE			SAE J553, ISO 10924, CE		

Hi-Amp Circuit Protector (Breaker)

Products ID	Amps	Products ID	Amps
AOE91-5404	30A	AOE91-5404	110A
AOE91-5404	40A	AOE91-5404	120A
AOE91-5404	50A	AOE91-5404	135A
AOE91-5404	60A	AOE91-5404	150A
AOE91-5404	70A	AOE91-5404	200A
AOE91-5404	80A	AOE91-5404	250A
AOE91-5404	90A	AOE91-5404	300A
AOE91-5404	100A		

Features

- Hi-Amp Circuit Protector (Breaker)
- 1/4" Stainless Steel Studs, Surface Mount
- Typically used in auxiliary and accessory circuits in truck, bus', RVs and marine applications. Others include battery charger and DC audio system.

Specifications

- Interrupting Capacity (AIC) | 3,000A @ DC 72V
- Voltage Rating | DC 48V Max
- Operating Temperature | -32°C (-25°F) to 82°C (180°F)
- Interrupt Capacity | 2,500A @ 14Vdc (25-200A)
  1,500A @ 48Vdc (25-200A)
  1,500A @ 14Vdc (225A-300A)
- Termination | 1/4" Stainless Steel Studs
- Body | UL-rated 94V0 thermoset plastic
- Current Rating | DC 25 –300A
- Regulatory Sepcification | Interrupt Capacity: SAE J1625; SAE J553, ABYC-E11; UL 1077*
- Ignition Protected | SAE J1171; UL 1500*
- Endurance | SAE J1625; SAE J553
- Dielectric Strength | UL 1077*
- Dust and Waterproof | IP67
- Shock, Vibration, Corrosion, Humidity | Mil-STD-202

Products ID	Amps	Products ID	Amps
AOE9A-5504	30A	AOE9A-5504	110A
AOE9A-5504	40A	AOE9A-5504	120A
AOE9A-5504	50A	AOE9A-5504	135A
AOE9A-5504	60A	AOE9A-5504	150A
AOE9A-5504	70A	AOE9A-5504	200A
AOE9A-5504	80A	AOE9A-5504	250A
AOE9A-5504	90A	AOE9A-5504	300A
AOE9A-5504	100A		

Features

- Hi-Amp Circuit Protector (Breaker)
- 3/8" Stainless Steel Studs, Wide Surface Mount
- Typically used in auxiliary and accessory circuits in truck, bus', RVs and marine applications. Others include battery charger and DC audio system.

Specifications

- Interrupting Capacity (AIC) | 3,000A @ DC 72V
- Voltage Rating | DC 48V Max
- Operating Temperature | -32°C (-25°F) to 82°C (180°F)
- Interrupt Capacity | 2,500A @ 14Vdc (25-200A)
  1,500A @ 48Vdc (25-200A)
  1,500A @ 14Vdc (225A-300A)
- Termination | 3/8" Stainless Steel Studs
- Body | UL-rated 94V0 thermoset plastic
- Current Rating | DC 25 –300A
- Regulatory Sepcification | Interrupt Capacity: SAE J1625; SAE J553, ABYC-E11; UL 1077*
- Ignition Protected | SAE J1171; UL 1500*
- Endurance | SAE J1625; SAE J553
- Dielectric Strength | UL 1077*
- Dust and Waterproof | IP67
- Shock, Vibration, Corrosion, Humidity | Mil-STD-202

Hi-Amp Circuit Protector (Breaker)

Products ID	Amps	Products ID	Amps
AOE92-5405	30A	AOE92-5405	110A
AOE92-5405	40A	AOE92-5405	120A
AOE92-5405	50A	AOE92-5405	135A
AOE92-5405	60A	AOE92-5405	150A
AOE92-5405	70A	AOE92-5405	200A
AOE92-5405	80A	AOE92-5405	250A
AOE92-5405	90A	AOE92-5405	300A
AOE92-5405	100A		

Features

- Hi-Amp Circuit Protector (Breaker)
- 1/4" Stainless Steel Studs, Surface Mount
- Typically used in auxiliary and accessory circuits in truck, bus', RVs and marine applications. Others include battery charger and DC audio system.

Specifications

- Interrupting Capacity (AIC) | 3,000A @ DC 72V
- Voltage Rating | DC 48V Max
- Operating Temperature | -32ºC (-25ºF) to 82ºC (180ºF)
- Interrupt Capacity | 2,500A @ 14Vdc (25-200A)
  1,500A @ 48Vdc (25-200A)
  1,500A @ 14Vdc (225A-300A)
- Termination | 1/4" Stainless Steel Studs
- Body | UL-rated 94V0 thermoset plastic
- Current Rating | DC 25 – 300A
- Regulatory Sepcification | Interrupt Capacity: SAE J1625; SAE J553, ABYC-E11; UL 1077*
- Ignition Protected | SAE J1171; UL 1500*
- Endurance | SAE J1625; SAE J553
- Dielectric Strength | UL 1077*
- Dust and Waterproof | IP67
- Shock, Vibration, Corrosion, Humidity | Mil-STD-202

Products ID	Amps	Products ID	Amps
AOE99-5410	30A	AOE99-5410	90A
AOE99-5410	40A	AOE99-5410	100A
AOE99-5410	50A	AOE99-5410	110A
AOE99-5410	60A	AOE99-5410	120A
AOE99-5410	70A	AOE99-5410	135A
AOE99-5410	80A	AOE99-5410	150A

Features

- Hi-Amp Circuit Protector (Breaker)
- 3/8" Stainless Steel Studs, Wide Surface Mount
- Typically used in auxiliary and accessory circuits in truck, bus', RVs and marine applications. Others include battery charger and DC audio system.

Specifications

- Interrupting Capacity (AIC) | 3,000A @ DC 72V
- Voltage Rating | DC 48V Max
- Operating Temperature | -32ºC (-25ºF) to 82ºC (180ºF)
- Interrupt Capacity | 2,500A @ 14Vdc (25-200A)
  1,500A @ 48Vdc (25-200A)
  1,500A @ 14Vdc (225A-300A)
- Termination | 3/8" Stainless Steel Studs
- Body | UL-rated 94V0 thermoset plastic
- Current Rating | DC 25 – 300A
- Regulatory Sepcification | Interrupt Capacity: SAE J1625; SAE J553, ABYC-E11; UL 1077*
- Ignition Protected | SAE J1171; UL 1500*
- Endurance | SAE J1625; SAE J553
- Dielectric Strength | UL 1077*
- Dust and Waterproof | IP67
- Shock, Vibration, Corrosion, Humidity | Mil-STD-202

Hi-Amp Circuit Protector (Breaker)

Products ID	Amps	Products ID	Amps
AOE9C-5504	30A	AOE9C-5504	90A
AOE9C-5504	40A	AOE9C-5504	100A
AOE9C-5504	50A	AOE9C-5504	110A
AOE9C-5504	60A	AOE9C-5504	120A
AOE9C-5504	70A	AOE9C-5504	135A
AOE9C-5504	80A	AOE9C-5504	150A

Features

- Hi-Amp Circuit Protector (Breaker)
- 3/8" Stainless Steel Studs, Parallel Easy Studs Surface Mount
- Typically used in auxiliary and accessory circuits in truck, bus', RVs and marine applications. Others include battery charger and DC audio system.

Specifications

- Interrupting Capacity (AIC) | 3,000A @ DC 72V
- Voltage up to 72Vdc*
- Reset Type T3, Manual Reset (Switchable)
- Operating Temperature | -32ºC (-25ºF) to 82ºC (180ºF)
- Interrupt Capacity | 2,500A @ 14Vdc (25-200A)
  1,500A @ 48Vdc (25-200A)
  1,500A @ 14Vdc (225A-300A)
- Termination | 3/8" Stainless Steel Studs
- Body | UL-rated 94V0 thermoset plastic
- Current Rating | DC 30 –250A
- Regulatory Sepcification | nterrupt Capacity: SAE J1625; SAE J553, ABYC-E11; UL 1077*
- Ignition Protected | SAE J1171; UL 1500*
- Endurance | SAE J1625; SAE J553
- Dielectric Strength | UL 1077*
- Dust and Waterproof | IP67
- Shock, Vibration, Corrosion, Humidity | Mil-STD-202

Products ID	Amps	Products ID	Amps
AOE9B-5504	30A	AOE9B-5504	100A
AOE9B-5504	40A	AOE9B-5504	110A
AOE9B-5504	50A	AOE9B-5504	120A
AOE9B-5504	60A	AOE9B-5504	135A
AOE9B-5504	70A	AOE9B-5504	150A
AOE9B-5504	80A	AOE9B-5504	200A
AOE9B-5504	90A	AOE9B-5504	250A

Features

- Hi-Amp Circuit Protector (Breaker)
- 3/8" Stainless Steel Studs, Wide Surface Mount
- Typically used in auxiliary and accessory circuits in truck, bus', RVs and marine applications. Others include battery charger and DC audio system.

Specifications

- Interrupting Capacity (AIC) | 3,000A @ DC 72V
- Voltage up to 72Vdc*
- Operating Temperature | -32ºC (-25ºF) to 82ºC (180ºF)
- Interrupt Capacity | 2,500A @ 14Vdc (25-200A)
  1,500A @ 48Vdc (25-200A)
  1,500A @ 14Vdc (225A-300A)
- Termination | 3/8" Stainless Steel Studs
- Body | UL-rated 94V0 thermoset plastic
- Current Rating | DC 30 –250A
- Regulatory Sepcification | Interrupt Capacity: SAE J1625; SAE J553, ABYC-E11; UL 1077*
- Ignition Protected | SAE J1171; UL 1500*
- Endurance | SAE J1625; SAE J553
- Dielectric Strength | UL 1077*
- Dust and Waterproof | IP67
- Shock, Vibration, Corrosion, Humidity | Mil-STD-202

ATC Fuse Type Circuit Breaker

Features

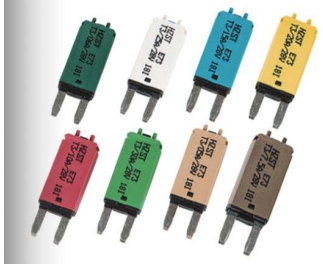
- Low profile design
- Thermal Type Circuit breaker with Manual Reset button Compatible with ATC fuse blocks

Specifications

- Interrupting Capacity (AIC) | 2,000A @ DC 28V
- Voltage Rating | DC 28V Max
- Dimension Length | 19.7x6.2x29.5 mm
- Current Rating | DC 5 – 30A
- Operating Temperature | -40°C (-40°F) to 85°C (185°F)
- Body | UL-Rated 94V0 Themoplastic Housing
- Note | SAEJ553 / SAEJ1171 / UL1500 / ISO8846

Products ID	Amps	Products ID	Amps
AOE5004	5A	AOE5004	15A
AOE5004	6A	AOE5004	20A
AOE5004	7.5A	AOE5004	25A
AOE5004	10A	AOE5004	30A

AOE5001 Mini Circuit Protector (Breaker)



Features

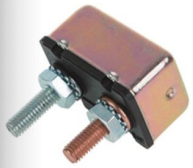
- Low profile design
- Thermal Type Circuit breaker with Manual Reset button Compatible with ATM fuse blocks

Specifications

- Interrupting Capacity (AIC) | 2,000A @ DC 28V
- Voltage Rating | DC 28V Max
- Dimension | 26x12.4x6.4 mm
- Current Rating | DC 5 – 30A
- Operating Temperature | -40°C (-40°F) to 85°C (185°F)
- Body | UL-Rated 94V0 Themoplastic Housing
- Note | SAEJ553 / SAEJ1171/UL1500 / ISO8846

Products ID	Amps	Products ID	Amps
AOE5001	5A	AOE5001	15A
AOE5001	6A	AOE5001	20A
AOE5001	7.5A	AOE5001	25A
AOE5001	10A	AOE5001	30A

Marine Grade Short Stop Circuit Breakers



AOE5110

AOE5113

AOE5111

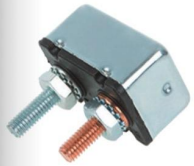
Amps	10A DC	15A DC	20A DC	25A DC	30A DC	40A DC	50A DC

Features

- AOE5 Stud Type Circuit Protector (Breaker)
- Used in Battery chargers, trucks, buses, RVs, trolling motors, Electric Vehicles etc Available in ratings from 5 to 50 Amperes.

Specifications

- Interrupting Capacity 2,500A @ 28V DC
- Type Thermal trip, manual reset
- Terminals #10-32" Studs
- Screw Terminal Torque 24 in-lb max
- Mounting No Mounting Bracket
- Reset Type T1, Auto Reset
- Operating Temperature -40ºC (-40ºF) to 85ºC (185ºF)
- Weight 22 g
- Regulatory Sepcification SAE J553; SAE J1171; UL1500
- Body Metal



AOE5114

AOE5119

AOE5115

Amps	10A DC	15A DC	20A DC	25A DC	30A DC	40A DC	50A DC

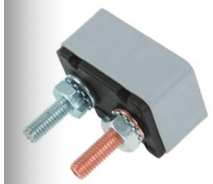
Features

- AOE5 Stud Type Circuit Protector (Breaker)
- Used in Battery chargers, trucks, buses, RVs, trolling motors, Electric Vehicles etc Available in ratings from 5 to 50 Amperes.

Specifications

- Interrupting Capacity 2,500A @ 28V DC
- Type Thermal trip, manual reset
- Terminals #10-32" Studs
- Screw Terminal Torque 24 in-lb max
- Mounting No Mounting Bracket
- Reset Type T2, Modified Reset
- Operating Temperature -40ºC (-40ºF) to 85ºC (185ºF)
- Weight 23 g
- Regulatory Sepcification SAE J553; SAE J1171; UL1500
- Body Metal

Marine Grade Short Stop Circuit Breakers



AOE5130

AOE5133

AOE5131

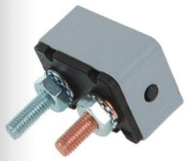
Amps	10A DC	15A DC	20A DC	25A DC	30A DC	40A DC	50A DC

Features

- AOE5 Stud Type Circuit Protector (Breaker)
- Used in Battery chargers, trucks, buses, RVs, trolling motors, Electric Vehicles etc Available in ratings from 5 to 50 Amperes.

Specifications

- Interrupting Capacity 2,500A @ 28V DC
- Type Thermal trip, manual reset
- Terminals #10-32" Studs
- Screw Terminal Torque 24 in-lb max
- Mounting No Mounting Bracket
- Reset Type T1, Auto Reset
- Operating Temperature -40ºC (-40ºF) to 85ºC (185ºF)
- Weight 22 g
- Regulatory Sepcification SAE J553; SAE J1171; UL1500
- Body Plastic



AOE5134

AOE5139

AOE5135

Amps	10A DC	15A DC	20A DC	25A DC	30A DC	40A DC	50A DC

Features

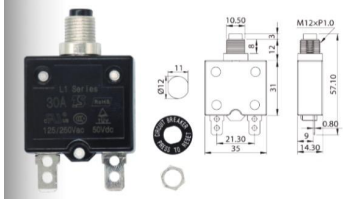
- AOE5 Stud Type Circuit Protector (Breaker)
- Used in Battery chargers, trucks, buses, RVs, trolling motors, Electric Vehicles etc Available in ratings from 5 to 50 Amperes.

Specifications

- Interrupting Capacity 2,500A @ 28V DC
- Type Thermal trip, manual reset
- Terminals #10-32" Studs
- Screw Terminal Torque 24 in-lb max
- Mounting No Mounting Bracket
- Reset Type T3 Manual Reset
- Operating Temperature -40ºC (-40ºF) to 85ºC (185ºF)
- Weight 21g
- Regulatory Sepcification SAE J553; SAE J1171; UL1500
- Body Metal

Push-Button Circuit Breakers

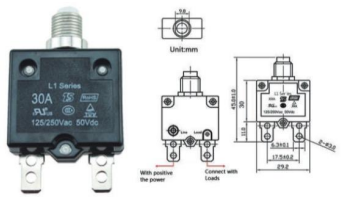
AOE5300



Specifications

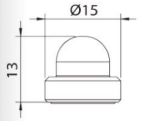
- Voltage Rating | DC 50V, AC 125V/250V
- Amps | 3A-50A
- Dielectric Strength | AC 1500V/1 Minute
- Interrupting Capacity | 1000A @125VAC , 2000A @250VAC
- Insulation Resistance | > 100 MΩ
- Note | Approval : 3-30A 125/250V AC

AOE5301



Specifications

- Voltage Rating | DC 50V, AC 125V/250V
- Amps | 3A-50A
- Dielectric Strength | AC 1500V/1 Minute
- Interrupting Capacity | 1000A @125VAC , 2000A @250VAC
- Insulation Resistance | > 100 MΩ
- Note | Approval : 3-30A 125/250V AC



PJ-1701

PJ-1702