

KUOYUH®

AR6 SERIES CIRCUIT PROTECTION

Single Pole Auto- Reset

•Technical data

•Current rating range	3~30A
•Input voltage rating	12/24 VDC
•Compliances	SAE J553
•Contact Endurance	125Vac X150% of rated current >500 cycles 125Vac X200% of rated current >200 cycles
•Insulation Resistance	>100MOHM (DC 500V)
•Dielectric Strength	> 1,500VAC/min.
•Breaking Capacity	4 times rated current
•Automotive Type	Auto- Reset; 12VDC Automotive Type I
•Reset Time	Within 60 SEC

•Mechanical/Environmental Data

•Operating Ambient Temperature:	-10°C to +60°C
•Storage Temperature Rating:	-40°C to +100°C.
•Termination:	250"(6.3mm) quick connects or solder terminals

•Typical applications

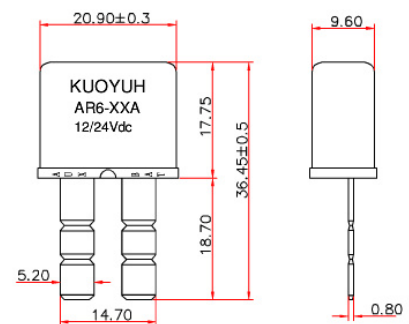
Battery chargers, trucks, buses, RV's, trolling motors, etc.

•Calibration(at25°C)

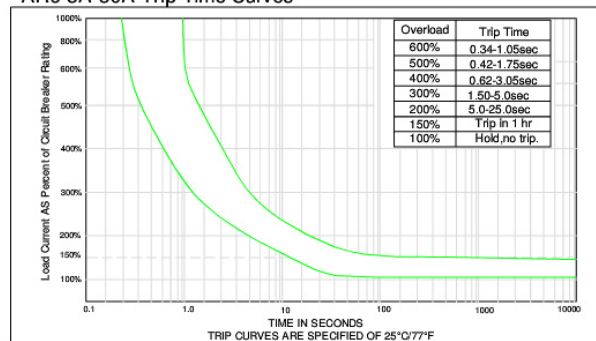
•100% of Rated Current:	Hold , No Trip
•150% of Rated Current:	Trip Within 1 Hour.
•200% of Rated Current:	5-25 sec Trip
•300% of Rated Current:	1.5-5 sec Trip

•AR6 Order Guide

AR6	-XXX	-A	-C
Series no.	Rating Amp	Case Type	Terminal Type
025= 2.5 Amp	A=Matel(AL)	A=7.3±0.5	
050= 5 Amp		B=12.5±0.5	
075= 7.5 Amp		C=18.7±0.5	
080= 8 Amp			
100= 10 Amp			
125= 12.5 Amp			
150= 15 Amp			
175= 17.5 Amp			
200= 20 Amp			
225= 22.5 Amp			
250= 25 Amp			
300= 30 Amp			



•AR6 3A-30A Trip Time Curves



•Ambient Temperature Correction Factor

Ambient temperature	-10°C	0°C	10°C	25°C	35°C	40°C	50°C	60°C
Multiplication factor	*1.30	*1.20	*1.10	1.00	*0.94	*0.85	*0.73	*0.68

The time/current characteristic curve depends on the ambient temperature prevailing. In order to eliminate nuisance tripping. Please multiply the circuit breaker current ratings by the derating factor shown below.

Example : Normal Continuous Current = 50A
 Ambient Temperature = 45°C
 Multiplication Factor = 0.85
 Recommended Rating= 50A*0.85=58.8A