

*Air Circuit breaker*  
**UAH-60G3-60A**



## General

Device application	Protection
Standards	UL 1066 / ANSI C37
Network type	AC

## Characteristics

Network frequency	50/60 Hz
Poles	3
Mounting mode	Withdrawable
Rated current	6000
Rated maximum voltage	254V/508V/635V
Rated short circuit current (kA)	130 kA at 245 V AC
	130 kA at 508 V AC
	100 kA at 635 V AC
Rated short-time current (kA)	100kA
Maximum breaking time	25 ms over I <sub>cw</sub>
Maximum closing response time	90 ms
Maximum Arcing time	40 ms
Max. temperature rise over 40 deg.C ambient	55 K
Material of Main contacts	Ag Alloy
Material of arcing contacts	Cu

Mechanical durability	10000 (60 times per hour)
Electrical durability	1000 (30 times per hour)
Withdrawable durability	250 cycles
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Power frequency withstand voltage (Vrms)	3.5 kV/min - Main circuit
	1.5 kV/min - Control and Auxiliary
Rated impulse withstand voltage (1.2x50 microsecond )	12 kV - Main circuit
	4 kV - Control and Auxiliary
Average spring charging time	Less than 6s at Minimum voltage
	Less than 5s at Norminal voltage
	Less than 4s at Maximum voltage
Operation time for Shunt trip Coil	20 ms - Contacts part
	50 ms - Contacts fully open
Operation time for Closing Coil	55 ms - Contacts touch
	80 ms - Contacts fully close

## Environment

Ambient air temperature for operation <sup>1)</sup>	-20 to 60 °C
Ambient air temperature for storage	-50 to 80 °C
Humidity <sup>1)</sup>	85% at 40 °C
	90% at 20 °C
Altitude <sup>1)</sup>	under 2000 m
IP degree	IP 30 (without Dust cover)
	IP 54 (with Dust cover)

1) For a special environment, please contact us.

## Dimensions

Product Net Width	30.91 inch (785 mm)
Product Net Height	18.11 inch (460 mm)
Product Net Depth	16.02 inch (407 mm)

Product Net Weight	489 lb (222 kg) with Cradle
Distance between phases to phase	Vertical type : 9.61 inch (244 mm)
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Distance between phases to bottom	-
	-
Distance between main contacts	34mm
Distance between arcing contacts	40mm

### Options

Spring charge motor	DC 24~30 V 5 A (Inrush current is 5 times of load current)
	AC/DC 48~60 V 3 A (Inrush current is 5 times of load current)
	AC/DC 100~130 V 1 A (Inrush current is 5 times of load current)
	AC/DC 200~250 V 0.5 A (Inrush current is 5 times of load current)
	AC 380 V 0.3 A (Inrush current is 5 times of load current)
Shunt trip coil	AC 440~480V 0.3 A (Inrush current is 5 times of load current)
	DC 24~30 V (Inrush 200 W Steady-state 5 W)
	AC 48 V (Inrush 200 W Steady-state 5 W)
	AC/DC 48~60 V (Inrush 200 W Steady-state 5 W)
	AC/DC 100~130 V (Inrush 200 W Steady-state 5 W)
Closing coil	AC/DC 200~250 V (Inrush 200 W Steady-state 5 W)
	AC 380~480 V (Inrush 200 W Steady-state 5 W)
	DC 24~30 V (Inrush 200 W Steady-state 5 W)
	AC 48 V (Inrush 200 W Steady-state 5 W)
	AC/DC 48~60 V (Inrush 200 W Steady-state 5 W)
	AC/DC 100~130 V (Inrush 200 W Steady-state 5 W)
	AC/DC 200~250 V (Inrush 200 W Steady-state 5 W)
	AC 380~480 V (Inrush 200 W Steady-state 5 W)
	DC 24~30 V (Inrush 200 W Steady-state 5 W)
	AC 48 V (Inrush 200 W Steady-state 5 W)

UVT coil	AC/DC 48~60 V (Inrush 200 W Steady-state 5 W)
	AC/DC 100~130 V (Inrush 200 W Steady-state 5 W)
	AC/DC 200~250 V (Inrush 200 W Steady-state 5 W)
	AC 380~480 V (Inrush 200 W Steady-state 5 W)
Auxillary switches <sup>2)</sup>	3a3b Standard OFF charge,
	3a3b Standard ON charge,
	3a3b High capacity OFF charge,
	3a3b High capacity ON charge,
	5a5b Standard OFF charge,
	5a5b Standard ON charge,
	5a5b High capacity OFF charge,
	5a5b High capacity ON charge,
	6a6b Standard ON charge,
	6a6b High capacity ON charge
Arcing contacts and arc chutes are provided	YES
Emergency Manual charging facility provided	YES
Mechanical position indicator provided?	YES
Charge/Discharge indicator provided?	YES
Operation counter provided?	YES

2) For a contact capacity, please refer to the catalogue.