

Air Circuit breaker

UAH-32E3-30V



General

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

Characteristics

Network frequency	50/60 Hz
Poles	3
Mounting mode	FIXED
Rated current	3000
Rated maximum voltage	254V/508V/635V
Rated short circuit current (kA)	100 kA at 245 V AC
	100 kA at 508 V AC
	85 kA at 635 V AC
Rated short-time current (kA)	85kA
Maximum breaking time	25 ms over I _{cw}
Maximum closing response time	80 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	12500 (60 times per hour)
Electrical durability	2800 (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 ¹⁾	-20 to 60 °C
Ambient air temperature for storage	-50 to 80 °C
Humidity ¹⁾	85% at 40 °C
	90% at 20 °C
Altitude ¹⁾	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	16.22 inch (412 mm)
Product Net Height	16.93 inch (430 mm)
Product Net Depth	16.02 inch (407 mm)

Product Net Weight	214 lb (97 kg) with Cradle
Distance between phases to phase	Vertical type : 4.53 inch (115 mm)
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)
	AC 440~480V 0.3 A (Inrush current is 5 times of load current)
Shunt trip coil	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)
Closing coil	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)
	AC/DC 48~60 V (Inrush 200 W Steady-state 5 W)

UVT coil	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 ²⁾	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
Automatic safety shutter provided?	YES
Trip circuit supervision relay furnished	YES

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