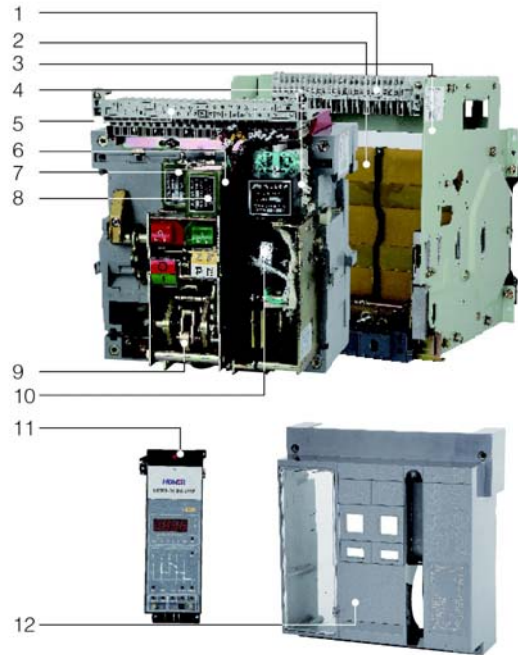


UEW5 series Intelligent Air Circuit Breaker

UEW5 series intelligent air circuit breakers

UEW5 series intelligent air circuit breakers are applicable to the power distribution circuit under the condition of AC50Hz, rated working voltage 400V or 690V, rated current 630 ~ 6300A, this circuit breakers with high breaking capacity and zero flashover ,take the role of distributing power and protecting wires and equipments from being damaged by overload, under-voltage, short circuit and ground fault etc. The circuit breakers provide intelligent protection function and precise selective protection which will improve reliability and safety of power supply to avoid unnecessary power failure.

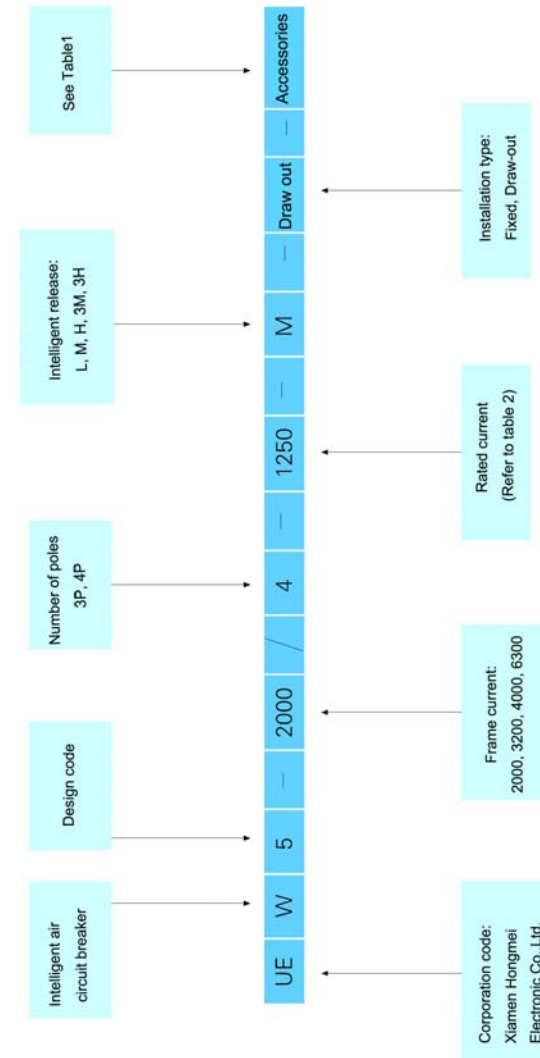
Internal structure



- | | | |
|---|--|----------------------------|
| 1. Secondary circuit terminal (fixed) | 5. Secondary circuit terminal (moving) | 9. Operating mechanism |
| 2. Safety clapboard | 6. Shunt release | 10. Motor-driven mechanism |
| 3. Draw-out socket | 7. Under-voltage release | 11. Intelligent release |
| 4. Auxiliary switch | 8. Closing electromagnet | 12. Enclosure |

UEW5 series Intelligent Air Circuit Breaker

Type and meaning



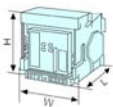
UEW5 series Intelligent Air Circuit Breaker

Table 1

Required Accessories	Intelligent release power supply	AC400V, 230V; DC220V, 110V (Suitable power module is needed under DC con)
	Shunt release	
	Closing electromagnet	AC380V, 220V; DC220V, 110V
	Motor-driven mechanism	
Optional accessories	Under-voltage release	AC380V, 220V; Undervoltage instantaneous release (1S、3S、5S for option)
	Auxiliary contact	4 groups of transfer Switchings(Normal) 、2NO,6NC 6 groups of transfer
	Opening lock	1 lock 1 key,2 locks 1 key,3 locks 2 keys
	Mechanical interlock	Horizontal interlock, vertical interlock
	Frame	Provided along with breaker
	Clapboard	
	Hook	Installed in breaker before leaving factory
	Button locking equipment (user prepare the lock)	
	Power module(For Intelligent release)	DC220V, 110V
	ST power module(For ST201 Relay module)	AC380V, 220V; Output DC24V,Max 9.6W
ST201 Relay module	AC380V, 220V(It's needed to meet function of remote)	

UEW5 series Intelligent Air Circuit Breaker

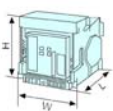
Table 2 Main specification

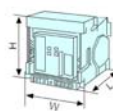
Type		UEW5-2000						
Rated frame current Inm(A)		2000						
Rated current In(A)		630	800	1000	1250	1600	2000	
Rated working voltage Ue (V)		AC400、AC690						
Rated insulation voltage Ui (V)		AC690、AC1000						
Number of poles		3、4	3、4	3、4	3、4	3、4	3、4	
Rated current of N pole IN(A)		50% or 100% In						
Rated ultimate short-circuit breaking capacity Icu(kA) (effective value)	AC400V	80/85	80/85	80/85	80/85	80/85	80/85	
	AC690V	50/65	50/65	50/65	50/65	50/65	50/65	
Rated service short-circuit breaking capacity Ics(kA) (effective value)	AC400V	50/85	50/85	50/85	50/85	50/85	50/85	
	AC690V	50/65	50/65	50/65	50/65	50/65	50/65	
Rated short circuit making capacity Icm(kA) (peak value)	AC400V	176/187	176/187	176/187	176/187	176/187	176/187	
	AC690V	105/145	105/145	105/145	105/145	105/145	105/145	
Rated short time withstand current (1s) Icw(kA) (effective value)	AC400V	50/85	50/85	50/85	50/85	50/85	50/85	
	AC690V	40/65	40/65	40/65	40/65	40/65	40/65	
Full breaking time (without additional delay) (ms)		25-30						
Closing time(ms)		70 at maximum						
Intelligent controller	Basic	0	0	0	0	0	0	
	Multi-functional	0	0	0	0	0	0	
	Communication	0	0	0	0	0	0	
Dielectric performance 50Hz		AC 2500V 1min						
Operational performance	Electrical life	AC400V	8000	8000	8000	8000	8000	
		AC690V	3000	3000	3000	3000	3000	
	Mechanical life	Non-maintenance	15000	15000	15000	15000	15000	
		Maintenance	30000	30000	30000	30000	30000	
	Connection pattern		horizontal ,vertical	horizontal ,vertical	horizontal ,vertical	horizontal ,vertical	horizontal ,vertical	
	Pattern	Draw-out	0	0	0	0	0	
		Fixed	0	0	0	0	0	
	Externality dimensions HxWxL (mm)	Fixed 3P	395x362x323					
		Fixed 4P	395x457x323					
		Draw-out 3P	433x375x420					
Draw-out 4P	430x470x420							

UEW5 series Intelligent Air Circuit Breaker

UEW5 series Intelligent Air Circuit Breaker

Table 2 Main specification

Type		UEW5-3200				
Rated frame current Inm(A)		3200				
Rated current In(A)		2000	2500	2900	3200	
Rated working voltage Ue (V)		AC400、AC690				
Rated insulation voltage Ui (V)		AC690、AC1000				
Number of poles		3、4	3、4	3、4	3、4	
Rated current of N pole IN(A)		50% OF 100%In				
Rated ultimate short-circuit breaking capacity Icu(kA)	AC400V	100/110	100/110	100/110	100/110	
	AC690V	65/85	65/85	65/85	65/85	
Rated service short-circuit breaking capacity Ics(kA) (effective value)	AC400V	80/100	80/100	80/100	80/100	
	AC690V	65/85	65/85	65/85	65/85	
Rated short circuit making capacity Icm(kA) (peak value)	AC400V	220/230	220/230	220/230	220/230	
	AC690V	143/187	143/187	143/187	143/187	
Rated short time withstand current (1s) Icw(kA) (effective value)	AC400V	80/100	80/100	80/100	80/100	
	AC690V	50/85	50/85	50/85	50/85	
Full breaking time (without additional delay) (ms)		25-30				
Closing time(ms)		70 at maximum				
Intelligent controller	Basic	O	O	O	O	
	Multi-functional	O	O	O	O	
	Communication	O	O	O	O	
Dielectric performance 50Hz		AC 2500V 1min				
Operational performance	Electrical life	AC400V	3000	3000	3000	3000
		AC690V	1500	1500	1500	1500
	Mechanical life	Non-maintenance	10000	10000	10000	10000
		Maintenance	20000	20000	20000	20000
	Connection pattern		horizontal ,vertical	horizontal ,vertical	horizontal ,vertical	horizontal ,vertical
	Pattern	Draw-out	O	O	O	O
		Fixed	O	O	O	O
	Externality dimensions HxWxL (mm)	Fixed 3P	395x422x323			
		Fixed 4P	395x544x323			
		Draw-out 3P	433x435x420			
Draw-out 4P		433x550x420				

Type		UEW5-4000				UEW5-6300				
Rated frame current Inm(A)		4000				6300				
Rated current In(A)		3200	3600	4000	4000	5000	6300			
Rated working voltage Ue (V)		AC400、AC690								
Rated insulation voltage Ui (V)		AC690、AC1000								
Number of poles		3	4	3	4	3	4	3、4	3、4	
Rated current of N pole IN(A)		50% OF 100%In								
Rated ultimate short-circuit breaking capacity Icu(kA)	AC400V	110/120	110/120	110/120	120/135	120/135	120/135	120/135	120/135	
	AC690V	75/85	75/85	75/85	75/85	75/85	75/85	75/85	75/85	
Rated service short-circuit breaking capacity Ics(kA) (effective value)	AC400V	85/120	85/120	85/120	100/135	100/135	100/135	100/135	100/135	
	AC690V	65/85	65/85	65/85	65/100	65/100	65/100	65/100	65/100	
Rated short circuit making capacity Icm(kA) (peak value)	AC400V	220/230	220/230	220/230	264/297	264/297	264/297	264/297	264/297	
	AC690V	165/187	165/187	165/187	165/220	165/220	165/220	165/220	165/220	
Rated short time withstand current (1s) Icw(kA) (effective value)	AC400V	85/120	85/120	85/120	100/135	100/135	100/135	100/135	100/135	
	AC690V	65/85	65/85	65/85	65/100	65/100	65/100	65/100	65/100	
Full breaking time (without additional delay) (ms)		25-30								
Closing time(ms)		70 at maximum								
Intelligent controller	Basic	O	O	O	O	O	O	O	O	
	Multi-functional	O	O	O	O	O	O	O	O	
	Communication	O	O	O	O	O	O	O	O	
Dielectric performance 50Hz		AC 2500V 1min								
Operational performance	Electrical life	AC400V	1500	1500	1500	1500	1500	1500	1500	
		AC690V	1000	1000	1000	1000	1000	1000	1000	
	Mechanical life	Non-maintenance	10000	5000	10000	5000	10000	5000	4000	4000
		Maintenance	20000	10000	20000	10000	20000	10000	8000	8000
	Connection pattern		horizontal	horizontal	horizontal	horizontal	horizontal	horizontal	horizontal	
	Pattern	Draw-out	O	O	O	O	O	O	O	
		Fixed								
	Externality dimensions HxWxL (mm)	Fixed 3P								
		Fixed 4P								
		Draw-out 3P	433x550x486				433x930(813)x486			
Draw-out 4P		433x788x486				433x930x486				