



9. Accessories

9.1 Inner accessories

9.1.1 Shunt release

$U_s = 70 \sim 110\% U_s$, circuit breaker reliably operates

Long-time electrification is prohibited

Time of response: pulsive type $\geq 20\text{ms}$, $\leq 60\text{ms}$

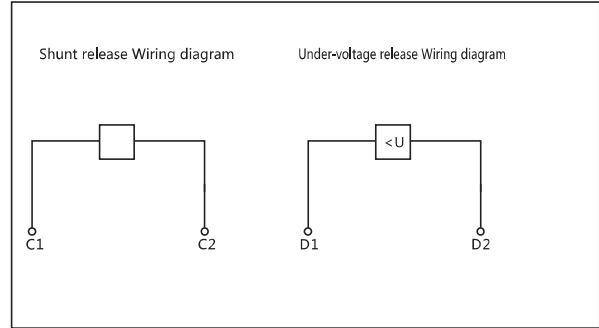
9.1.2 Under-voltage release

$U_s = 35 \sim 70\% U_e$, circuit breaker reliably breaks

$U_s \geq 85\% U_e$, circuit breaker reliably closes

$U_s < 35\% U_e$, prevent circuit breaker from making

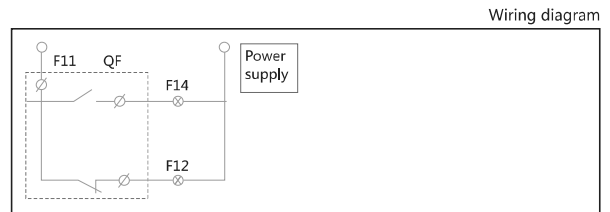
Note: With under-voltage release, $U_s \geq 85\% U_e$, circuit breaker normally makes and breaks



9.1.3 Auxiliary contact

Function: Indication of contacting status

Circuit breaker is at making status	
Circuit breaker is at breaking status	



9.1.4 Alarm contact

Function: indication of reason for circuit breaker releasing;

- * Over-load
- * Short-circuit
- * Grounding fault
- * Operation of under-voltage releasing or free tripping

When circuit breaker normally makes and breaks, alarm contact not operates.

After free tripping(or tripping due to failure), alarm contact operates and after the circuit breaker again normally operates, alarm contact recovers original status.

Circuit breaker is at breaking or making status	
Circuit breaker is at free release (or alarming)status	

