Selection Guide

■ Ordering Instructions

When ordering an ELCB, the following information must be clearly specified:

☐ Circuit breaker model, pole number and rated current

☐ Short-circuit instantaneous protection current setting value

(If not specified in the order, the product will be supplied with a default setting of 10In)

☐ Tripping mode and accessory code: If not specified in the order, the circuit breaker will be supplied without additional accessories (i.e. code 3300 or 4300) by default. For circuit breakers ordered with a Shunt trip or under-voltage release, the rated control supply voltage must be clearly indicated

☐ The wiring of accessories (Shunt trip, auxiliary contact and Alarm switch) adopts the lead wire outlet mode by default.

☐ Operation mode: If not specified in the order, the product will be supplied with manual operation by default

☐ Temperature Specification: The default reference temperature is 40℃. If a reference temperature of 55℃ is required, please specify this when placing your order.

■ Exclusive ELCB Residual Current Protection Parameters

☐ Rated residual operating current IΔn

☐ Residual current time delay characteristic

☐ ELCB power supply mode: Internal power supply / External auxiliary power supply

☐ Alarm without Tripping Module

Example:

For an order of KWN3L-125L, 3-pole, 125A, IΔn=300mA, instantaneous leakage trip, quantity 100 units, the order specification shall be written as:

KWN3L-125L/3300 3P 125A IΔn=300mA Instant ELCB, 100 units

Ratings And Specifications

MCCB With ELCB Type

Frame Size	125	160	250	400	630
Model	KWN3L-125	KWN3L-160	KWN3L-250	KWN3L-400	KWN3L-630
Number of poles	3P,3P+N	3P+N			
Rated current(A) In	32,40,50,63 70,80,100,125	63,70,80,100 125,140,160	100,125,140 160,180,200,225,250	225,250,315 320,350,400	400,500,630
Standard	IEC/EN 60947-2				
Reference temperature	40℃/55℃				
Rated operational voltage	380/400/415V AC				
Rated insulation voltage Ui (V)	690	1000			
Rated impluse withstand voltage Uimp (kV)	6	8			
Residual-current protection	Type A (covers Type AC)				

Breaking capacity level	L	L	M	L	M	L	M	H	L	M	H
Rated ultimate short-circuit breaking capacity Icu(kA)	10	36	50	36	50	50	75	85	50	75	85
Rated service short-circuit breaking capacity Ics(kA)	7.5	25	36	25	36	36	55	65	36	55	65
Mechanical Endurance	10000	for 63-100A	for 125-160A	for 100A	for 125-250A	for 225-315A	for 320-400A		4000		
Electrical Endurance	1500	8500 1500	7000 1000	8500 1500	7000 1000	7000 1000	4000 1000		1000		
Electronic Trip Unit Type	Type 1 -Dedicated ASIC	Type 1 -Dedicated ASIC		Pro Type -MCU Microcontroller		Type 1 -Dedicated ASIC			Pro Type -MCU Microcontroller		
Residual Current Setting IΔn (mA)	30/100/ 300/500	30/100/ 300/500		100/300/500/ 1000/3000		100/300/ 500/1000			100/300/500/ 1000/3000		
Time Delay Setting (ms)	0/100/ 300/1000	0/100/ 300/1000		OFF/200/500/ 500/1000		0/100/ 300/1000			OFF/200/500/ 500/1000		

Limiting non-actuating time setting(ms)	100	300	1000	100	300	1000	200	500	1000	100	300	1000	200	500	1000
Maximum breaking time (ms)	300	600	2000	300	600	2000	350	750	1500	300	600	2000	350	750	1500

0 = Instantaneous Trip (No Intentional Delay, Mechanical Operating Time Only) OFF = Residual Current Protection Disabled

Rated residual non-operating current	1/2 I△n			
Residual Current Value	I△n	2I△n	5I△n	10I△n
Without time delay (s)	0.3	0.15	0.04	
Selectivity category	A			
Isolating Knob	X	√	√	√	√
Alarm without Tripping Module	X	√	√	√	√
Certification	Listed in May 2027	Listed in April 2027	Listed in November 2026	Listed in December 2026	

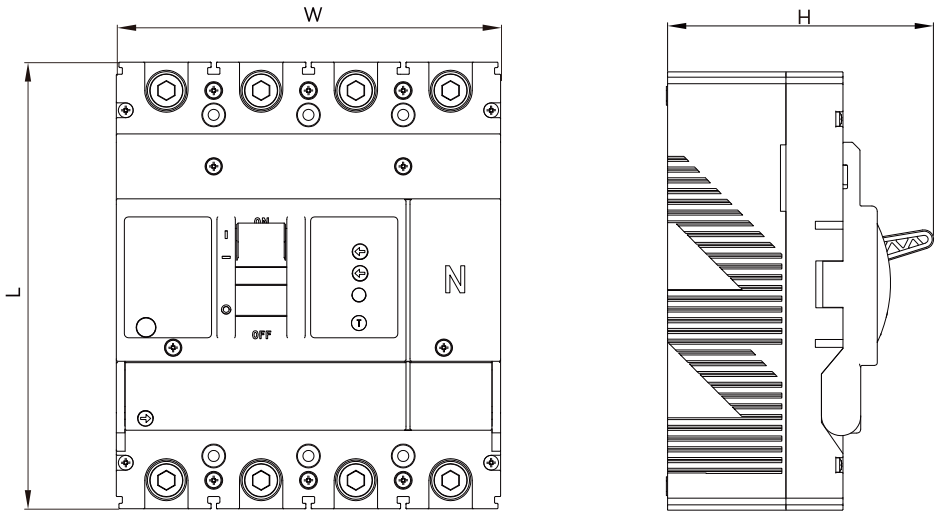
Note1: Limiting non-actuating time depends on time-delay gear selection for time-delay models.
Note2: Thermal adjustable residual-current model is available with multi-gear operating current and time settings.

Product Dimension Drawing

MCCB With ELCB Type

KWN3L

125,160,250,400,630



KWN3L Dimensions mm(L×W×H)

Frame Size	125		160	250	400	630
Number of poles	3P	3P+N	3P+N	3P+N	3P+N	3P+N
Length	150	150	155	165	267	267
Width	75	100	122	142	197	197
Height	81	81	99	100.5	152	152