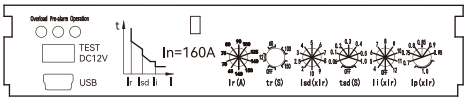
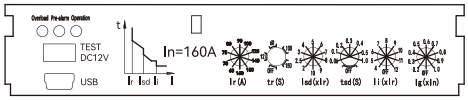
Ratings And Specifications — Electronic Type With Knob

Frame Size	160				250			400	
Model	KWN3E-160				KWN3E-250			KWN3E-400	
Number of poles	3,4								
Rated current(A) In	63,100,125,160				125,160,200,250			250,300,315,320,400	
Standard	IEC/EN 60947-2								
Reference temperature	40℃/55℃								
Rated operational voltage	380/400/415V AC								
Rated insulation voltage Ui (V)	1000								
Rated impluse withstand voltage Uimp (kV)	8								
Selectivity category	A							B	
Rated short-time with stand current (Icw)								8 kA - 1 s	
Breaking capacity level	L	M	H	H⁺	L	M	H	M	H
Rated ultimate short-circuit breaking capacity Icu(kA)	36	50	65	85	36	50	65	85	100
Rated service short-circuit breaking capacity Ics(kA)	25	36	50	66	25	36	50	60	75
Icu=Ics(kA)	25	36	50	66	25	36	50	60	75
Mechanical Endurance Electrical Endurance	for 63-100A 8500 1500		for 125-160A 7000 1000		7000 1000			for 250-315A 7000 1000	for 320-400A 4000 1000
Accessories	Auxiliary contact(OF) Alarm switch(SD) Shunt trip(MX)				Under-voltage release(MN) Motor Rotary handle operating mechanism				
Certification	DEKRA CE CB				Listed in November 2026			DEKRA CE CB	

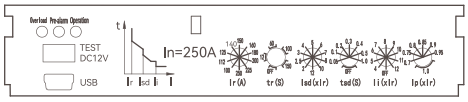
160 3P controller



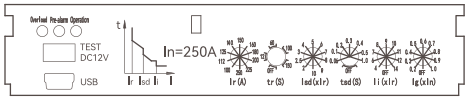
160 4P controller



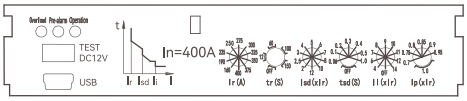
250 3P controller



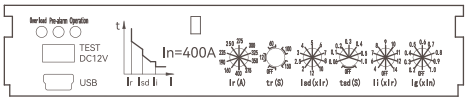
250 4P controller



400 3P controller



400 4P controller

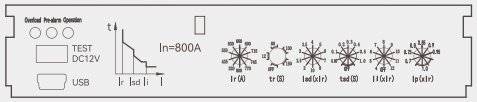


Ratings And Specifications — Electronic Type With Knob

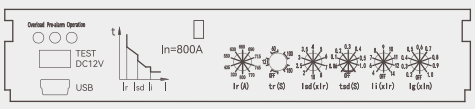
Frame Size	630	800/1000	1600
Model	KWN3E-630	KWN3E-800 KWN3E-1000	KWN3E-1600
Number of poles	3,4		
Rated current(A) In	250,300,315,320 400,500,600,630	For KWN3E-800:630,800 For KWN3E-1000:630,800,1000	1000,1250,1600
Standard	IEC/EN 60947-2		
Reference temperature	40℃/55℃		
Rated operational voltage	380/400/415V AC		
Rated insulation voltage Ui (V)	1000		
Rated impluse withstand voltage Uimp (kV)	8		
Mention Selectivity category	B		

Rated short-time with stand current (Icw)	8 kA - 1 s		10kA - 1 s		20kA - 1 s	
Breaking capacity level	M	H	M	H	M	H
Rated ultimate short-circuit breaking capacity Icu(kA)	85	100	85	100	66	85
Rated service short-circuit breaking capacity Ics(kA)	60	75	60	75	50	66
Icu=Ics(kA)	60	75	60	75	50	66
Mechanical Endurance Electrical Endurance	for 250-315A 7000 1000	for 320-630A 4000 1000	2500 500			
Accessories	Auxiliary contact(OF) Alarm switch(SD) Shunt trip(MX)		Under-voltage release(MN) Motor Rotary handle operating mechanism			
Certification	DEKRA CE CB		Listed in September 2026		DEKRA CE CB	

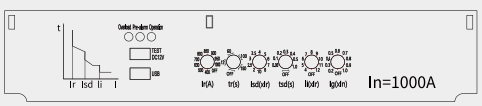
800 3P controller



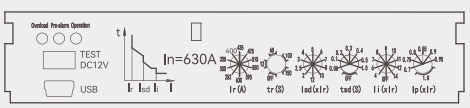
800 4P controller



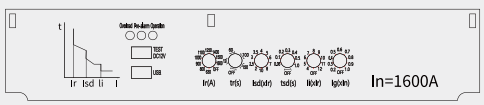
1000 3P/4P controller



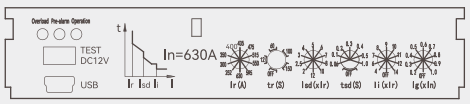
630 3P controller



1600 3P/4P controller



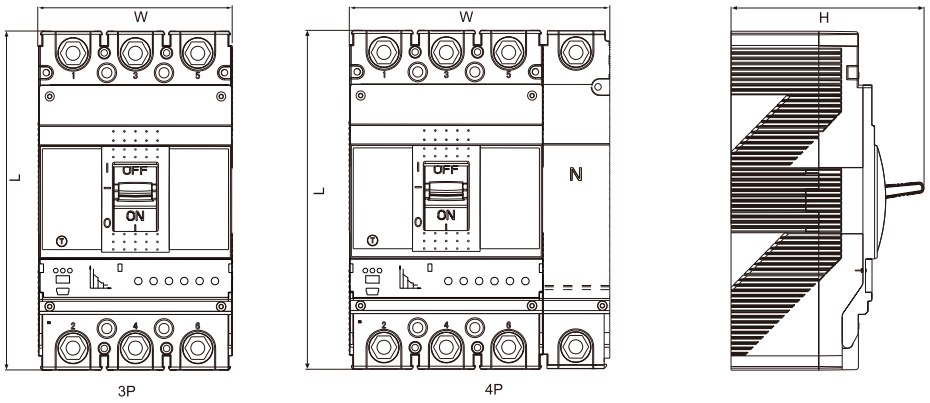
630 4P controller



Product Dimension Drawing — Electronic Type With Knob

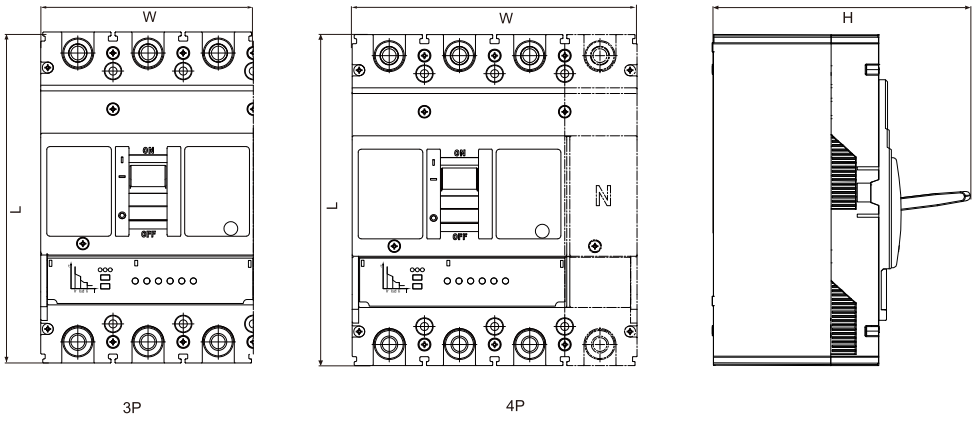
KWN3E

160,250,400,630,800/1000



KWN3E

1600



KWN3E Dimensions mm(L×W×H)

Frame Size		160	160 (H*)	250	400	630	800/1000	1600
3P	Length	155	155	165	257	257	280	310
	Width	92	92	107	150	150	210	212
	Height	93	99	100.5	152	152	155	242
4P	Length	155	155	165	257	257	280	310
	Width	122	122	142	197	197	280	282
	Height	93	99	100.5	152	152	155	242

Setting Parameters — Electronic Type With Knob

Frame Size	KWN3E-160A				KWN3E-250A				KWN3E-400A				
Rated current In(A)	63	100	125	160	125	160	200	250	250	300	315	320	400
Ir(A) Long Delay Current Setting	25-28-32 36-40-45 50-56-60 63A	40-45-50 56-63-70 75-80-90 100A	50-63-70 75-80-85 90-95-100 125A	63-70-75 80-90-100 125-140-150 160A	50-63-70 75-80-85 90-95-100 125A	63-70-75 80-90-100 125-140-150 160A	80-90-100 110-125-140 150-160-180 200A	100-112-125 140-150 160-180-200 225-250A	100-112-125 140-150 160-180-200 225-250A	120-142-168 188-206 225-243-262 281-300A	126-150-177 196-216 236-255-275 295-315A	128-152-180 200-220 240-260-280 300-320A	160-190-225 250-275 300-325-350 375-400A
tr(S) Long Delay Time	12-60-100-150 sec + OFF												
Isd(A) Short Circuit Protection Of Low Level Faults	2-2.5-3-4-5-6-7-8-9-10 x Ir(A)								2-2.5-3-4-5-6-7-8-10-12 x Ir(A)				
tsd (S) short time	0.06-0.1-0.2-0.3- 0.4-0.5-1.0 sec + OFF												
Ii(A) Short Circuit Protection Of High level Faults	4-5-6-7-8-9-10-11-12 x Ir(A)+ OFF								4-6-7-8-9-10-11-12-14 x Ir(A)+ OFF				
Ip(A) Pre Trip Alarm Setting Multiple	0.7-0.75-0.8-0.85-0.9-0.95 1.0 x Ir(A)												
For 4p Ig(A) Ground Fault Pickup Current	0.2-0.3-0.4-0.5-0.6-0.7-0.8-0.9 1.0 x In+ OFF												
For 4p tg(S) Ground Fault Pickup Time	Fixed for 0.4sec												

Setting Parameters — Electronic Type With Knob

Frame Size	KWN3E-630A								KWN3E-800A	
Rated current In(A)	250	300	315	320	400	500	600	630	630	800
Ir(A) Long Delay Current Setting	100-112-125 140-150 160-180-200 225-250A	120-142-168 188-206 225-243-262 281-300A	126-150-177 196-216 236-255-275 295-315A	128-152-180 200-220 240-260-280 300-320A	160-190-225 250-275 300-325-350 375-400A	200-238-278 317-345 377-408-436 472-500A	240-285-333 380-414 452-490-523 566-600A	252-300-350 400-435-475-515-550-595-630A	252-300-350 400-435 475-515 550-595-630A	320-435-550 630-660 690-715-745 770-800A
tr(S) Long Delay Time	12-60-100-150 sec + OFF								12-60-80 sec + OFF	
Isd(A) Short Circuit Protection Of Low Level Faults	2-2.5-3-4-5-6-7-8-10-12 x Ir(A)								2-2.5-3-4-5-6-7-8-9 x Ir(A)	
tsd (S) short time	0.06-0.1-0.2-0.3- 0.4-0.5-1.0 sec + OFF									
Ii(A) Short Circuit Protection Of High level Faults	4-6-7-8-9-10-11-12-14 x Ir(A)+ OFF								4-5-6-7-8-9 x Ir(A)+ OFF	4-5-6-7-8-9-10 x Ir(A)+ OFF
Ip(A) Pre Trip Alarm Setting Multiple	0.7-0.75-0.8-0.85-0.9-0.95 1.0 x Ir(A)									
For 4p Ig(A) Ground Fault Pickup Current	0.2-0.3-0.4-0.5-0.6-0.7-0.8-0.9 1.0 x In+ OFF									
For 4p tg(S) Ground Fault Pickup Time	Fixed for 0.4sec									

Setting Parameters — Electronic Type With Knob

Frame Size	KWN3E-1000A			KWN3E-1600A		
Rated current In(A)	630	800	1000	1000	1250	1600
Ir(A) Long Delay Current Setting	252-300-350 400-435-475-515 550-595-630A	320-435-550 630-660 690-715-745 770-800A	400-500-630 700-800-850 900-950 1000A	400-500-630 700-800-850 900-950 1000A	500-630 700-800 900-1000 1100-1200 1250A	630-800 900-1000 1100-1250 1400-1500 1600A
tr(S) Long Delay Time	12-60-80 sec + OFF			12-60-100-150 sec + OFF		
Isd(A) Short Circuit Protection Of Low Level Faults	2-2.5-3-4-5-6-7-8-9x Ir(A)			2-2.5-3-3.5-4-5-6-7-8-10 x Ir(A)		
tsd (S) short time	0.06-0.1-0.2-0.3- 0.4-0.5-1.0 sec + OFF					
Ii(A) Short Circuit Protection Of High level Faults	4-5-6-7-8-9 xIr(A) + OFF	4-5-6-7-8-9-10xIr(A)+ OFF		4-5-6-7-8-9-10-11-12 xIr(A) + OFF		
Ip(A) Pre Trip Alarm Setting Multiple	0.7-0.75-0.8-0.85-0.9-0.95 1.0 x Ir(A)			Fixed 0.9x Ir(A)		
For 4p Ig(A) Ground Fault Pickup Current	0.4-0.5-0.6-0.7-0.8-0.9-1.0 x In+ OFF			0.2-0.3-0.4-0.5-0.6-0.7-0.8-0.9 1.0 x In+ OFF		
For 4p tg(S) Ground Fault Pickup Time	Fixed for 0.4sec					