

MCCB

Moulded Case Circuit Breaker

Kawamura Electric Inc.

Selection Guide

Product category	KWN series Moulded Case Circuit Breaker						
Design code	3						
Type code	Fixed Type (I)		Thermal & Magnetic Adjustable Type (sm)		Thermal Adjustable Type (s)		
	Electronic Type with Knobs (E)			Electronic Type with LCD (i)			
Frame code	125A,160A,250A,400A,630A,800A/1000A,1600A						
Breaking capacity level	L,M,H,H ⁺						
Pole	3P,4P						
Rated current	30-1600A						
e.g.	:	KWN	3	s	-	125	M / 3P 125A

■ Ordering Instructions

When ordering a MCCB, the following information must be clearly specified:

- ☐ Circuit breaker model and rated current
- ☐ Short-circuit protection current setting value
(If not specified in the order, the product will be supplied with a default setting of 10I_n)
- ☐ 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°C. If a reference temperature of 55°C is required, please specify this when placing your order.

Example:

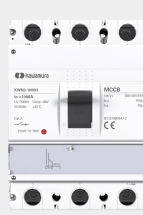
For an order of KWN3-125M, 3-pole, 125A, quantity 100 units, the order specification shall be written as:
KWN3-125M/3300 125A, 100 units

Ratings And Specifications							Fixed Type		
Frame Size									
	125			160			250		
Model	KWN3-125			KWN3-160			KWN3-250		
Number of poles	3,4								
Rated current(A) In	40,50,60,63,70,75,80, 90,100,125			30,32,40,50,63 70,75,80,100, 125,140,150,160			100,125,140,150, 160,175,180,200, 225,250		
Magnetic tripping current (li)	10*In			10*In for 50-160A 480A for 30-40A			10*In		
Standard	IEC/EN 60947-2								
Reference temperature	40°C/55°C								
Rated operational voltage	380/400/415V AC								
Rated insulation voltage Ui (V)	800			1000					
Rated impluse withstand voltage Uimp (kV)	8								
Breaking capacity level	L	M	L	M	H	H ⁺	L	M	H
Rated ultimate short-circuit breaking capacity Icu(kA)	10	25	36	50	65	85	36	50	65
Rated service short-circuit breaking capacity Ics(kA)	10	18	25	36	50	66	25	36	50
Icu=Ics(KA)	10	18	25	36	50	66	25	36	50
Mechanical Endurance	for 40-100A	for 125A	for 30-100A		for 125-160A		7000 1000		
Electrical Endurance	8500 1500	7000 1000	8500 1500		7000 1000				
Accessories	Auxiliary contact(OF) Under-voltage release(MN) Alarm switch(SD) Motor Shunt trip(MX) Rotary handle operating mechanism								
Certification	  								

*Line/load terminal : Immaterial

Ratings And Specifications

Fixed Type

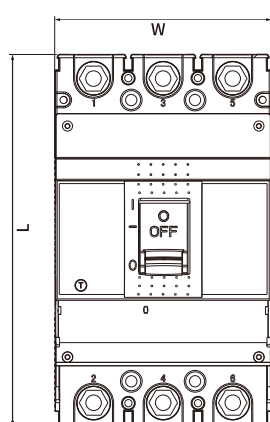
Frame Size									
	400			630			800/1000		
Model	KWN3-400			KWN3-630			KWN3-800 KWN3-1000		
Number of poles	3,4								
Rated current(A) In	250,275,280,300,315 350,400			450,500,550,600,630			For KWN3-800 630,700,770,800		
							For KWN3-1000 630,700,770,800,1000		
Magnetic tripping current (Ii)	10*I _n								
Standard	IEC/EN 60947-2								
Reference temperature	40°C/55°C								
Rated operational voltage	380/400/415V AC								
Rated insulation voltage U _i (V)	1000								
Rated impluse withstand voltage U _{imp} (kV)	8								
Breaking capacity level	L	M	H	M	H	M	H		
Rated ultimate short-circuit breaking capacity I _{cu} (kA)	50	85	100	85	100	85	100		
Rated service short-circuit breaking capacity I _{cs} (kA)	50	60	75	60	75	60	75		
I _{cu} =I _{cs} (kA)	50	60	75	60	75	60	75		
Mechanical Endurance Electrical Endurance	for 250-315A		for 350-400A		4000 1000			2500 500	
	7000 1000		4000 1000						
Accessories	Auxiliary contact(OF) Under-voltage release(MN) Alarm switch(SD) Motor Shunt trip(MX) Rotary handle operating mechanism								
Certification	  						Listed in September 2026		

Product Dimension Drawing

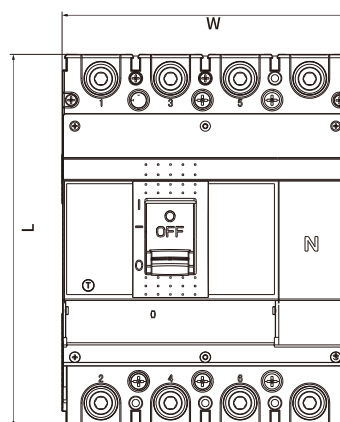
Fixed Type

KWN3

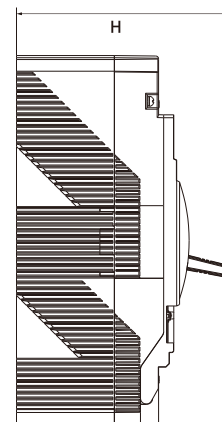
125,160,250,400,
630,800/1000



3P



4P



KWN3 Dimensions mm(L×W×H)

Frame Size		125	160	160 (H [*])	250	400	630	800/1000
3P	Length	133	155	155	165	257	257	280
	Width	75	92	92	107	150	150	210
	Height	81	93	99	100.5	152	152	155
4P	Length	133	155	155	165	257	257	280
	Width	100	122	122	142	197	197	280
	Height	81	93	99	100.5	152	152	155

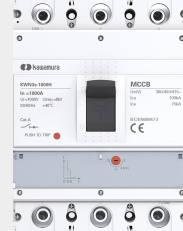
Ratings And Specifications

Thermal Adjustable Type

Frame Size										
	125			160			250			
Model	KWN3s-125			KWN3s-160			KWN3s-250			
Number of poles	3,4									
Rated current(A) In	40,50,60,63, 70,75,80,90,100,125			30,32,40,50,63 70,75,80,100, 125,140,150,160			100,125,140,150, 160,175,180,200, 225,250			
Magnetic tripping current (Ii)	10*In			10*In for 50-160A 480A for 30-40A			10*In			
Thermo-adjustable setting Ir(xIn)	0.8/0.9/1.0 or 0.7/0.85/1.0									
Standard	IEC/EN 60947-2									
Reference temperature	40°C/55°C									
Rated operational voltage	380/400/415V AC									
Rated insulation voltage Ui (V)	800			1000						
Rated impluse withstand voltage Uimp (kV)	8									
Breaking capacity level	M			L	M	H	H ⁺	L	M	H
Rated ultimate short-circuit breaking capacity Icu(kA)	25			36	50	65	85	36	50	65
Rated service short-circuit breaking capacity Ics(kA)	18			25	36	50	66	25	36	50
Icu=Ics(kA)	18			25	36	50	66	25	36	50
Mechanical Endurance Electrical Endurance	for 40-100A	for 125A	for 30-100A		for 125-160A		2500 500			
	8500 1500	7000 1000	8500 1500		7000 1000					
Accessories	Auxiliary contact(OF) Alarm switch(SD) Shunt trip(MX) Under-voltage release(MN) Motor Rotary handle operating mechanism									
Certification	  									

Ratings And Specifications

Thermal Adjustable Type

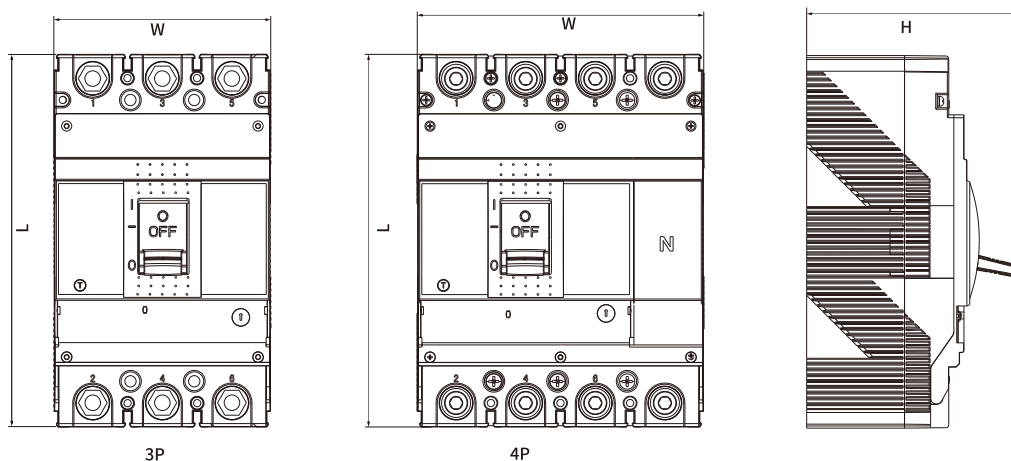
Frame Size									
	400			630			800/1000		
Model	KWN3s-400			KWN3s-630			KWN3s-800 KWN3s-1000		
Number of poles	3,4								
Rated current(A) In	250,275,280, 300,315,350,400			450,500,550,600,630			For KWN3s-800 630,700,770,800		
							For KWN3s-1000 630,700,770,800,1000		
Magnetic tripping current (li)	10*In								
Thermo-adjustable setting Ir(xIn)	0.8/0.9/1.0								
Standard	IEC/EN 60947-2								
Reference temperature	40°C/55°C								
Rated operational voltage	380/400/415V AC								
Rated insulation voltage Ui (V)	1000								
Rated impluse withstand voltage Uimp (kV)	8								
Breaking capacity level	L	M	H	L	M	H	M	H	
Rated ultimate short-circuit breaking capacity Icu(kA)	50	85	100	50	85	100	85	100	
Rated service short-circuit breaking capacity Ics(kA)	50	60	75	50	60	75	60	75	
Icu=Ics(kA)	50	60	75	50	60	75	60	75	
Mechanical Endurance Electrical Endurance	for 250-315A		for 350-400A		4000 1000			2500 500	
	7000 1000		4000 1000						
Accessories	Auxiliary contact(OF) Under-voltage release(MN) Alarm switch(SD) Motor Shunt trip(MX) Rotary handle operating mechanism								
Certification	  						Listed in September 2026		

Product Dimension Drawing

Thermal Adjustable Type

KWN3s

125,160,250,400,
630,800/1000



KWN3s Dimensions mm(L×W×H)

Frame Size		125	160	160 (H [*])	250	400	630	800/1000
3P	Length	133	155	155	165	257	257	280
	Width	75	92	92	107	150	150	210
	Height	81	93	99	100.5	152	152	155
4P	Length	133	155	155	165	257	257	280
	Width	100	122	122	142	197	197	280
	Height	81	93	99	100.5	152	152	155

Ratings And Specifications Thermal & Magnetic Adjustable Type

Frame Size	 160				 250		
Model	KWN3sm-160				KWN3sm-250		
Number of poles	3,4						
Rated current(A) In	30,32,40,50,63 70,75,80,100, 125,140,150,160				100,125,140,150, 160,175,180,200, 225,250		
Magnetic tripping current (li)	10*In						
Thermo-adjustable setting Ir(xIn)	0.8/0.9/1.0 or 0.7/0.85/1.0						
Magnetic-adjustable setting li(xIn)	6-8-10						
Standard	IEC/EN 60947-2						
Reference temperature	40°C/55°C						
Rated operational voltage	380/400/415V AC						
Rated insulation voltage Ui (V)	1000						
Rated impluse withstand voltage Uimp (kV)	8						
Breaking capacity level	L	M	H	H ⁺	L	M	H
Rated ultimate short-circuit breaking capacity Icu(kA)	36	50	65	85	36	50	65
Rated service short-circuit breaking capacity Ics(kA)	25	36	50	66	25	36	50
Icu=Ics(kA)	25	36	50	66	25	36	50
Mechanical Endurance Electrical Endurance	for 30-100A		for 125-160A		2500 500		
	8500 1500		7000 1000				
Accessories	Auxiliary contact(OF) Alarm switch(SD) Shunt trip(MX)				Under-voltage release(MN) Motor Rotary handle operating mechanism		
Certification	  						

Ratings And Specifications Thermal & Magnetic Adjustable Type

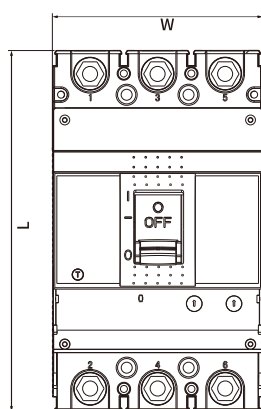
Frame Size									
	400			630			800/1000		
Model	KWN3sm-400			KWN3sm-630			KWN3sm-800 KWN3sm-1000		
Number of poles	3,4								
Rated current(A) In	250,275,280, 300,315,350,400			450,500,550,600,630			For KWN3sm-800 630,700,770,800		
							For KWN3sm-1000 630,700,770,800,1000		
Magnetic tripping current (Ii)	10*In								
Thermo-adjustable setting Ir(xIn)	0.8/0.9/1.0								
Magnetic-adjustable setting Ii(xIn)	6-8-10								
Standard	IEC/EN 60947-2								
Reference temperature	40°C/55°C								
Rated operational voltage	380/400/415V AC								
Rated insulation voltage Ui (V)	1000								
Rated impluse withstand voltage Uimp (kV)	8								
Breaking capacity level	L	M	H	L	M	H	M	H	
Rated ultimate short-circuit breaking capacity Icu(kA)	50	85	100	50	85	100	85	100	
Rated service short-circuit breaking capacity Ics(kA)	50	60	75	50	60	75	60	75	
Icu=Ics(kA)	50	60	75	50	60	75	60	75	
Mechanical Endurance Electrical Endurance	for 250-315A		for 350-400A		4000 1000			2500 500	
	7000 1000		4000 1000						
Accessories	Auxiliary contact(OF) Alarm switch(SD) Shunt trip(MX)							Under-voltage release(MN) Motor Rotary handle operating mechanism	
Certification	  						Listed in September 2026		

Product Dimension Drawing

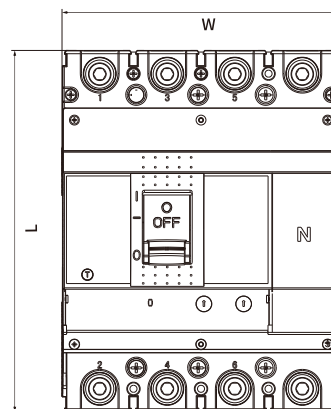
Thermal Magnetic Adjustable Type

KWN3sm

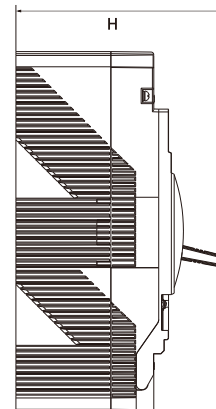
160,250,400,630,800/1000



3P



4P



KWN3sm Dimensions mm(L×W×H)

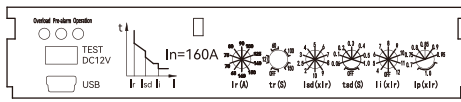
Frame Size		160	160 (H*)	250	400	630	800/1000
3P	Length	155	155	165	257	257	280
	Width	92	92	107	150	150	210
	Height	93	99	100.5	152	152	155
4P	Length	155	155	165	257	257	280
	Width	122	122	142	197	197	280
	Height	93	99	100.5	152	152	155

Ratings And Specifications

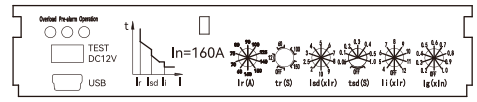
Electronic Type With Knob

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°C/55°C								
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	for 63-100A		for 125-160A		7000 1000			for 250-315A	for 320-400A
Electrical Endurance	8500 1500		7000 1000					7000 1000	4000 1000
Accessories	Auxiliary contact(OF) Alarm switch(SD) Shunt trip(MX)				Under-voltage release(MN) Motor Rotary handle operating mechanism				
Certification	  				Listed in November 2026			  	

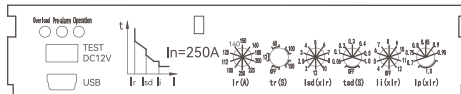
160 3P controller



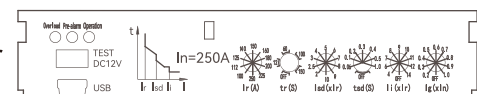
160 4P controller



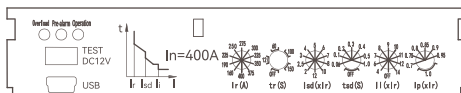
250 3P controller



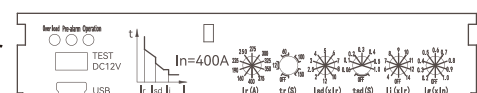
250 4P controller



400 3P controller

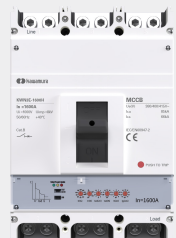


400 4P controller



Ratings And Specifications

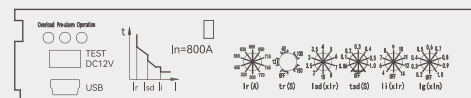
Electronic Type With Knob

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°C/55°C					
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	for 320-630A	2500			
	7000 1000	4000 1000	500			
Accessories	Auxiliary contact(OF) Under-voltage release(MN) Alarm switch(SD) Motor Shunt trip(MX) Rotary handle operating mechanism					
Certification			Listed in September 2026			

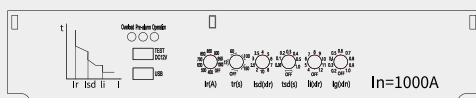
800 3P controller



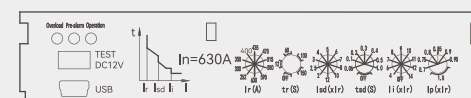
800 4P controller



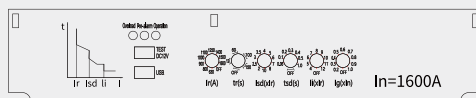
1000 3P/4P controller



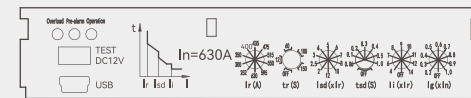
630 3P controller



1600 3P/4P controller



630 4P controller

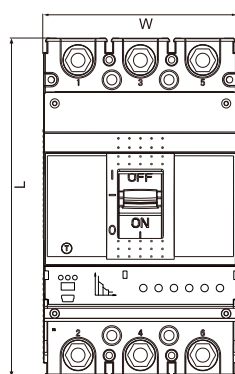


Product Dimension Drawing

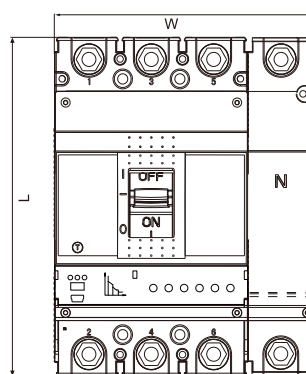
Electronic Type With Knob

KWN3E

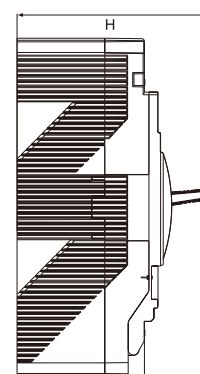
160,250,400,630,800/1000



3P

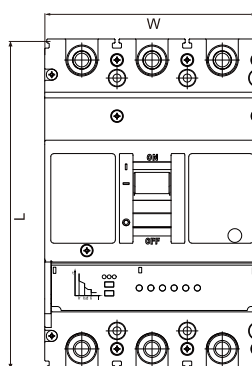


4P

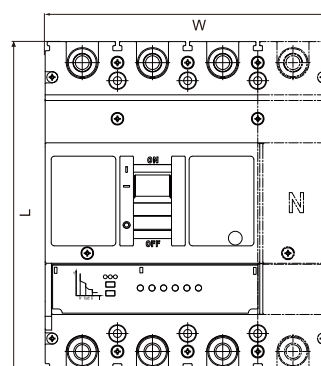


KWN3E

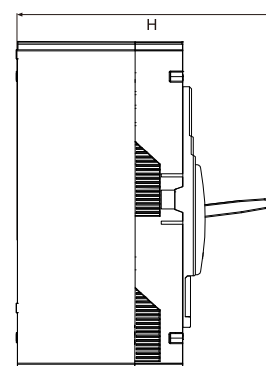
1600



3P



4P



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

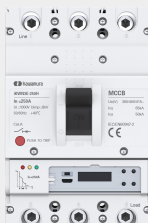
Setting Parameters					Electronic Type With Knob								
Frame Size	KWN3E-160A				KWN3E-250A				KWN3E-400A				
Rated current In(A)	63	100	125	160	125	160	200	250	250	300	315	320	400
Ir(A) Long Delay Current Setting	25-28-32 36-40-45 50-56-60 63A	40-45-50 56-63-70 75-80-90 100A	50-63-70 75-80-85 90-95-100 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					

Ratings And Specifications

Electronic Type With LCD

Frame Size														
	160				250				400					
Model	iKWN3E-160				iKWN3E-250				iKWN3E-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°C/55°C													
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		for 125-160A		7000 1000				for 250-315A		for 320-400A			
	8500 1500		7000 1000						7000 1000		4000 1000			
Accessories	Auxiliary contact(OF) Alarm switch(SD) Shunt trip(MX) Under-voltage release(MN) Motor Rotary handle operating mechanism													
Certification	  				Listed in November 2026				  					

Ratings And Specifications

Electronic Type With LCD

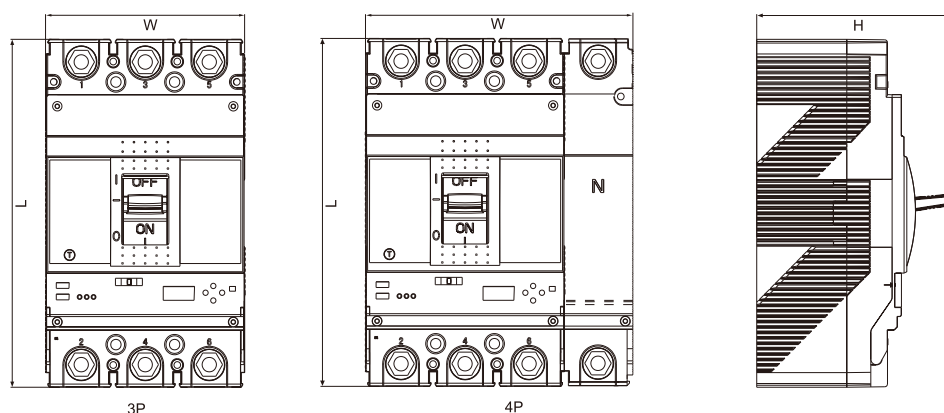
Frame Size				
	630		800/1000	
Model	iKWN3E-630		iKWN3E-800 iKWN3E-1000	
Number of poles	3,4			
Rated current(A) In	250,300,315,320 400,500,600,630		For iKWN3E-800 630,800	
			For iKWN3E-1000 630,800,1000	
Standard	IEC/EN 60947-2			
Reference temperature	40°C/55°C			
Rated operational voltage	380/400/415V AC			
Rated insulation voltage Ui (V)	1000			
Rated impluse withstand voltage Uimp (kV)	8			
Selectivity category	B			
Rated short-time with stand current (Icw)	8 kA - 1 s		10 kA - 1 s	
Breaking capacity level	M	H	M	H
Rated ultimate short-circuit breaking capacity Icu(kA)	85	100	85	100
Rated service short-circuit breaking capacity Ics(kA)	60	75	60	75
Icu=Ics(kA)	60	75	60	75
Mechanical Endurance	4000		2500	
Electrical Endurance	1000		500	
Accessories	Auxiliary contact(OF) Alarm switch(SD) Shunt trip(MX)		Under-voltage release(MN) Motor Rotary handle operating mechanism	
Certification	  		Listed in September 2026	

Product Dimension Drawing

Electronic Type With LCD

iKWN3E

160,250,400,630,800/1000



iKWN3E Dimensions mm(L×W×H)

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

Setting Parameters

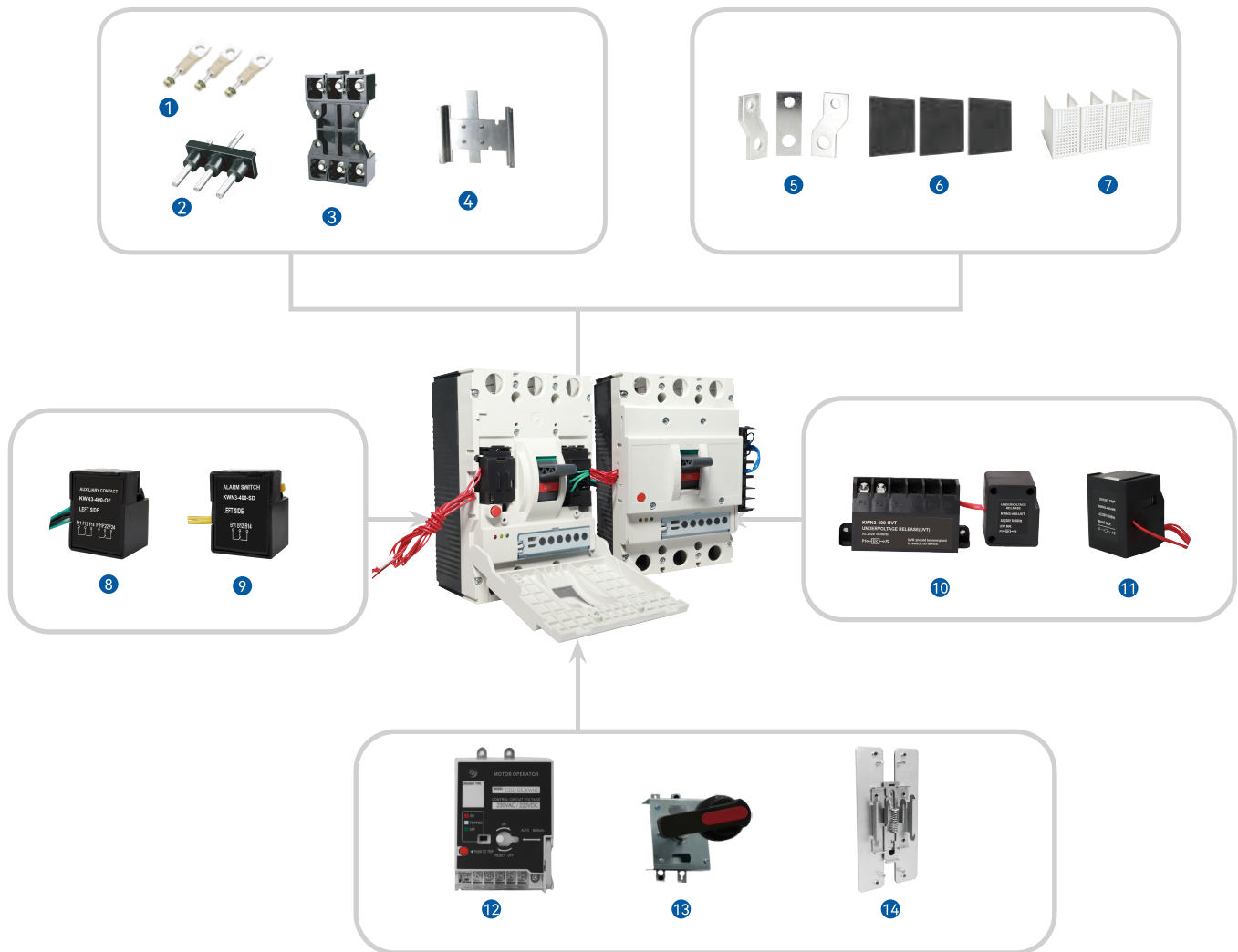
Electronic Type With LCD

Frame Size	iKWN3E-160A				iKWN3E-250A				iKWN3E-400A				
Rated current In(A)	63	100	125	160	125	160	200	250	250	300	315	320	400
Ir(A) Long Delay Current Setting	25-63A in steps of 1A	40-100A in steps of 1A	50-125A in steps of 1A	63-160A in steps of 1A	50-125A in steps of 1A	63-160A in steps of 1A	80-200A in steps of 1A	100-250A in steps of 1A	100-250A in steps of 1A	120-300A in steps of 1A	126-315A in steps of 1A	128-320A in steps of 1A	160-400A in steps of 1A
tr(S) Long Delay Time	12-150 sec in steps of 1 sec+OFF												
Isd(A) Short Circuit Protection Of Low Level Faults	126-630A in steps of 1A	200-1000A in steps of 1A	250-1250A in steps of 1A	320-1600A in steps of 1A	250-1250A in steps of 1A	320-1600A in steps of 1A	400-2000A in steps of 1A	500-2500A in steps of 1A	200-3000A in steps of 1A	240-3600A in steps of 1A	252-3780A in steps of 1A	256-3840A in steps of 1A	320-4800A in steps of 1A
tsd (S) short time	0.06-1 sec in steps of 0.01 sec+OFF												
li(A) Short Circuit Protection Of High level Faults	100-756 in steps of 1A + OFF	252-756A in steps of 1A + OFF	400-1200A in steps of 1A + OFF	640-1920A in steps of 1A + OFF	500-1250A in steps of 1A + OFF	640-1920A in steps of 1A + OFF	800-2400A in steps of 1A + OFF	1000-3000A in steps of 1A + OFF	400-3500A in steps of 1A + OFF	480-4200A in steps of 1A + OFF	504-4410A in steps of 1A + OFF	512-4480A in steps of 1A + OFF	640-5600A in steps of 1A + OFF
Ip(A) Pre Trip Alarm Setting Multiple	44-63A in steps of 1A	70-100A in steps of 1A	87-125A in steps of 1A	112-160A in steps of 1A	87-125A in steps of 1A	112-160A in steps of 1A	140-200A in steps of 1A	175-250A in steps of 1A	70-250A in steps of 1A	84-300A in steps of 1A	88.2-315A in steps of 1A	89.6-320A in steps of 1A	112-400A in steps of 1A
For 4p Ig(A) Ground Fault Pickup Current	12.6-63A in steps of 1A + OFF	20-100A in steps of 1A + OFF	25-125A in steps of 1A + OFF	32-160A in steps of 1A + OFF	25-125A in steps of 1A + OFF	32-160A in steps of 1A + OFF	40-200A in steps of 1A + OFF	50-250A in steps of 1A + OFF	50-250A in steps of 1A + OFF	60-300A in steps of 1A + OFF	63-315A in steps of 1A + OFF	64-320A in steps of 1A + OFF	80-400A in steps of 1A + OFF
For 4p tg(S) Ground Fault Pickup Time	0.4-1 sec in steps of 0.1sec												

Setting Parameters									Electronic Type With LCD				
Frame Size	iKWN3E-630A								iKWN3E-800A		iKWN3E-1000A		
Rated current In(A)	250	300	315	320	400	500	600	630	630	800	630	800	1000
Ir(A) Long Delay Current Setting	100-250A in steps of 1A	120-300A in steps of 1A	126-315A in steps of 1A	128-320A in steps of 1A	160-400A in steps of 1A	200-500A in steps of 1A	240-600A in steps of 1A	252-630A in steps of 1A	252-630A in steps of 1A	320-800A in steps of 1A	252-630A in steps of 1A	320-800A in steps of 1A	400-1000A in steps of 1A
tr(S) Long Delay Time	12-150 sec in steps of 1 sec+OFF												
Isd(A) Short Circuit Protection Of Low Level Faults	200-3000A in steps of 1A	240-3600A in steps of 1A	252-3780A in steps of 1A	256-3840A in steps of 1A	320-4800A in steps of 1A	400-6000A in steps of 1A	480-7200A in steps of 1A	504-7560A in steps of 1A	504-5670A in steps of 1A	640-7200A in steps of 1A	504-5670A in steps of 1A	640-7200A in steps of 1A	800-10000A in steps of 1A
tsd (S) short time	0.06-1 sec in steps of 0.01 sec+OFF												
Ii(A) Short Circuit Protection Of High level Faults	400-3500A in steps of 1A + OFF	480-4200A in steps of 1A + OFF	504-4410A in steps of 1A + OFF	512-4480A in steps of 1A + OFF	640-5600A in steps of 1A + OFF	800-7000A in steps of 1A + OFF	960-8400A in steps of 1A + OFF	1008-8820A in steps of 1A + OFF	1008-8820A in steps of 1A + OFF	1280-9600A in steps of 1A + OFF	1008-8820A in steps of 1A + OFF	1280-9600A in steps of 1A + OFF	1600-12000A in steps of 1A + OFF
Ip(A) Pre Trip Alarm Setting Multiple	70-250A in steps of 1A	84-300A in steps of 1A	88.2-315A in steps of 1A	89.6-320A in steps of 1A	112-400A in steps of 1A	140-500A in steps of 1A	168-600A in steps of 1A	176.4-630A in steps of 1A	176.4-630A in steps of 1A	224-800A in steps of 1A	176.4-630A in steps of 1A	224-800A in steps of 1A	280-1000A in steps of 1A
For 4p Ig(A) Ground Fault Pickup Current	50-250A in steps of 1A + OFF	60-300A in steps of 1A + OFF	63-315A in steps of 1A + OFF	64-320A in steps of 1A + OFF	80-400A in steps of 1A + OFF	100-500A in steps of 1A + OFF	120-600A in steps of 1A + OFF	126-630A in steps of 1A + OFF	126-630A in steps of 1A + OFF	160-800A in steps of 1A + OFF	126-630A in steps of 1A + OFF	320-800A in steps of 1A + OFF	400-1000A in steps of 1A + OFF
For 4p tg(S) Ground Fault Pickup Time	0.4-1 sec in steps of 0.1sec												

Accessories

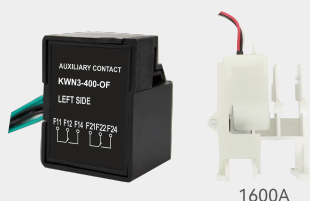
Overview of Accessories



1	Fixed rear connection (RC)	8	Auxiliary contact (OF)
2	Plug-in rear connection (PR)	9	Alarm switch (SD)
3	Plug-in front connection (RF)	10	Under-voltage release (MN)
4	Mechanical interlock (MI)	11	Shunt trip (MX)
5	Spreader links (C3/C4)	12	Motor (M)
6	Interphase barriers (IB)	13	Rotary handle operating mechanism (HL)
7	Terminal cover (TC)	14	DIN Rail adaptor (DR)

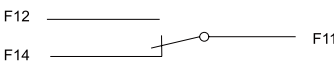
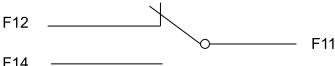
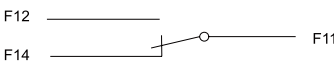
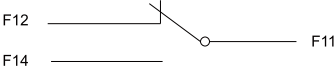
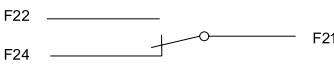
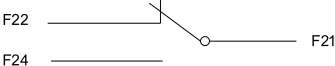
Internal Accessories

■ Auxiliary contact with Wire (OF)



An accessory that is connected to the auxiliary contact of the switching device to indicate whether the circuit breaker is in the ON position or not.

Electrical wiring diagram

Accessory name		ON	OFF/TRIP
Auxiliary contact	OF		
	TWO OF		
			

Electrical parameters

Conventional Thermal Current		3A	
Use category		AC 15	DC 13
Working electricity 50Hz	AC 400V	0.3A	
	DC 220V		0.15A

Auxiliary contact	Frame size	Accessory name	Left	Right
	KWN3-125	OF	KWN3125OF11L	KWN3125OF11R
		TWO OF	KWN3125OF21L	KWN3125OF21R
	KWN3-160	OF	KWN3160OF11L	KWN3160OF11R
		TWO OF	KWN3160OF21L	KWN3160OF21R
	KWN3-250	OF	KWN3250OF11L	KWN3250OF11R
		TWO OF	KWN3250OF21L	KWN3250OF21R
	KWN3-400/630/800/1000	OF	KWN3630OF11L	KWN3630OF11R
		TWO OF	KWN3630OF21L	KWN3630OF21R
	KWN3-1600	OF	KWN31600OF11L	KWN31600OF11R
		TWO OF	KWN31600OF21L	KWN31600OF21R

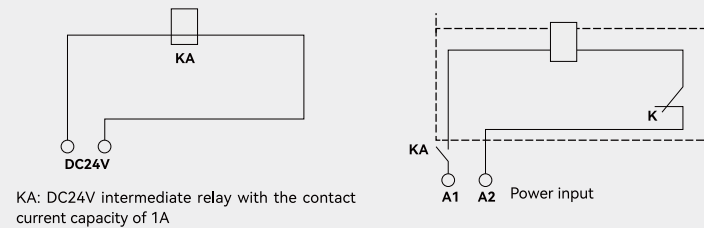
Internal Accessories

■ Shunt trip with Wire (MX)



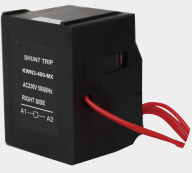
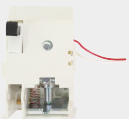
- The Shunt trip shall reliably trip the circuit breaker at the voltage between 70% and 110% of the rated control power voltage U_e .
- The circuit breaker shall be reset on the site after tripping through the Shunt trip.

Electrical wiring diagram



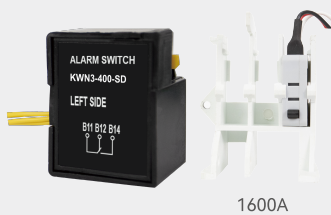
Electrical parameters

Frame size	Shunt trip power loss(W)		
	AC400V	AC230V	DC24V
KWN3-125	152	161	180
KWN3-160	116	225	165
KWN3-250	220	161	108
KWN3-400/630/800/1000	108	179	98
KWN3-1600	200	150	108

Shunt trip	Frame size	Voltage	Left	Right
	KWN3-125	AC230V	KWN3125MXAC2L	KWN3125MXAC2R
		AC400V	KWN3125MXAC3L	KWN3125MXAC3R
		DC110V	KWN3125MXDC1L	KWN3125MXDC1R
		DC220V	KWN3125MXDC2L	KWN3125MXDC2R
		DC24V	KWN3125MXDC3L	KWN3125MXDC3R
	KWN3-160	AC230V	KWN3160MXAC2L	KWN3160MXAC2R
		AC400V	KWN3160MXAC3L	KWN3160MXAC3R
		DC110V	KWN3160MXDC1L	KWN3160MXDC1R
		DC220V	KWN3160MXDC2L	KWN3160MXDC2R
		DC24V	KWN3160MXDC3L	KWN3160MXDC3R
	KWN3-250	AC230V	KWN3250MXAC2L	KWN3250MXAC2R
		AC400V	KWN3250MXAC3L	KWN3250MXAC3R
		DC110V	KWN3250MXDC1L	KWN3250MXDC1R
		DC220V	KWN3250MXDC2L	KWN3250MXDC2R
		DC24V	KWN3250MXDC3L	KWN3250MXDC3R
	KWN3-400/630/800/1000	AC230V	KWN3630MXAC2L	KWN3630MXAC2R
		AC400V	KWN3630MXAC3L	KWN3630MXAC3R
		DC110V	KWN3630MXDC1L	KWN3630MXDC1R
		DC220V	KWN3630MXDC2L	KWN3630MXDC2R
		DC24V	KWN3630MXDC3L	KWN3630MXDC3R
	KWN3-1600	AC230V	KWN31600MXAC2L	KWN31600MXAC2R
		AC400V	KWN31600MXAC3L	KWN31600MXAC3R
		DC110V	KWN31600MXDC1L	KWN31600MXDC1R
		DC220V	KWN31600MXDC2L	KWN31600MXDC2R
		DC24V	KWN31600MXDC3L	KWN31600MXDC3R

Internal Accessories

■ Alarm switch with Wire (SD)

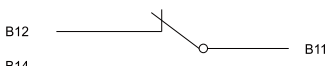
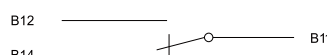


1600A

An accessory used to indicate whether the circuit breaker has tripped. When the Alarm switch indicates that the circuit breaker is at Trip status, there are the following five possibilities.

- Overload or short circuit fault.
- Residual current fault.
- Shunt trip action.
- Line fault and undervoltage release action.

Electrical wiring diagram

Accessory name	ON/OFF	TRIP
Alarm		

Electrical parameters

Conventional Thermal Current	3A		
Use category		AC 15	DC 13
Working electricity 50Hz	AC 400V	0.3A	
	DC 220V		0.15A

Alarm switch	Frame size	Left	Right
	KWN3-125	KWN3125SD1L	KWN3125SD1R
	KWN3-160	KWN3160SD1L	KWN3160SD1R
	KWN3-250	KWN3250SD1L	KWN3250SD1R
	KWN3-400/630/800/1000	KWN3630SD1L	KWN3630SD1R
	KWN3-1600	KWN31600SD1L	KWN31600SD1R

■ Auxiliary + Alarm with Wire

Auxiliary + Alarm	Frame size	Left	Right
	KWN3-125	KWN3125OFSD1L	KWN3125OFSD1R
	KWN3-160	KWN3160OFSD1L	KWN3160OFSD1R
	KWN3-250	KWN3250OFSD1L	KWN3250OFSD1R
	KWN3-400/630/800/1000	KWN3630OFSD1L	KWN3630OFSD1R
	KWN3-1600	KWN31600OFSD1L	KWN31600OFSD1R

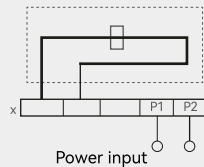
Internal Accessories

■ Under-voltage release with Terminal (MN)



- The Under-voltage release shall reliably trip the circuit breaker at the voltage between 35% and 70% of the rated operational voltage;
- The Under-voltage release shall ensure that the circuit breaker can be switched on at the voltage between 85% and 110% of the rated operational voltage;
- The Under-voltage release shall prevent the circuit breaker from switching on when voltage is below 35% of the rated operational voltage.

Electric wiring diagram

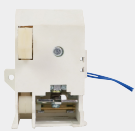


Note: X- terminal block

Note: In the dashed box, it is the wiring diagram of accessories in the circuit breaker.

Electrical parameters

Frame size	Under-voltage release power loss(W)	
	AC400V	AC230V
KWN3-125	124	41
KWN3-160	4	2.4
KWN3-250	4	2.4
KWN3-400/630/800/1000	224	184
KWN3-1600	2.53	3.4

Under-voltage release	Frame size	Voltage	Left	Right
	KWN3-125	AC230V	KWN3125MNAC2L	KWN3125MNAC2R
		AC400V	KWN3125MNAC3L	KWN3125MNAC3R
		DC110V	KWN3125MNDC1L	KWN3125MNDC1R
		DC220V	KWN3125MNDC2L	KWN3125MNDC2R
		DC24V	KWN3125MNDC3L	KWN3125MNDC3R
	KWN3-160	AC230V	KWN3160MNAC2L	KWN3160MNAC2R
		AC400V	KWN3160MNAC3L	KWN3160MNAC3R
		DC110V	KWN3160MNDC1L	KWN3160MNDC1R
		DC220V	KWN3160MNDC2L	KWN3160MNDC2R
		DC24V	KWN3160MNDC3L	KWN3160MNDC3R
	KWN3-250	AC230V	—	KWN3250MNAC2R
		AC400V	—	KWN3250MNAC3R
		DC110V	—	KWN3250MNDC1R
		DC220V	—	KWN3250MNDC2R
		DC24V	—	KWN3250MNDC3R
	KWN3-400/630/800/1000	AC230V	KWN3630MNAC2L	KWN3630MNAC2R
		AC400V	KWN3630MNAC3L	KWN3630MNAC3R
		DC110V	KWN3630MNDC1L	KWN3630MNDC1R
		DC220V	KWN3630MNDC2L	KWN3630MNDC2R
		DC24V	KWN3630MNDC3L	KWN3630MNDC3R
	KWN3-1600	AC230V	KWN31600MNAC2L	KWN31600MNAC2R
		AC400V	KWN31600MNAC3L	KWN31600MNAC3R
		DC110V	KWN31600MNDC1L	KWN31600MNDC1R
		DC220V	KWN31600MNDC2L	KWN31600MNDC2R
		DC24V	KWN31600MNDC3L	KWN31600MNDC3R

External Accessories

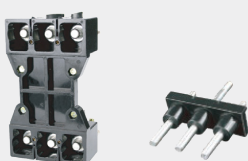
■ Fixed rear connection (RC)



Easy to install and connect the products in the rear connection.

Fixed rear connection	Frame size	3P(6pcs)	4P(8pcs)
	KWN3-160	KWN3160RC3	KWN3160RC4
	KWN3-250	KWN3250RC3	KWN3250RC4
	KWN3-400	KWN3400RC3	KWN3400RC4
	KWN3-630	KWN3630RC3	KWN3630RC4

■ Plug-in (PF/PR)

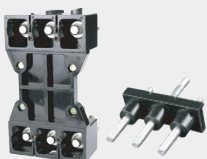


Plug-in

The wiring type is divided into plug-in Rear Connection and plug-in Front Connection.

The plug-in connection for the products is easy for maintenance and replacement, but plug-in and plug-out cannot be done with the electricity.

Frame size	Fixed front	Fixed rear	Plug-in front	Plug-in rear
KWN3-125	■	■	■	■
KWN3-160	■	■	■	■
KWN3-250	■	■	■	■
KWN3-400	■	■	■	■
KWN3-630	■	■	■	■

Plug-in	Frame size	Connection type	3P	4P
	KWN3-125	Front connection	KWN3125PF3	KWN3125PF4
		Rear connection	KWN3125PR3	KWN3125PR4
	KWN3-160	Front connection	KWN3160PF3	KWN3160PF4
		Rear connection	KWN3160PR3	KWN3160PR4
	KWN3-250	Front connection	KWN3250PF3	KWN3250PF4
		Rear connection	KWN3250PR3	KWN3250PR4
	KWN3-400	Rear connection	KWN3400PR3	KWN3400PR4
	KWN3-630	Rear connection	KWN3630PR3	KWN3630PR4

External Accessories

■ Rotary handle operating mechanism (HL)



The circuit breaker can be operated by the rotation of the handle and the ergonomically designed rotation handle makes the operation of the circuit breaker more flexible.

User visualization information/settings:

- 3 position indications: OFF, ON and TRIP
- The circuit breaker cannot be switched on when the door is open
- The door cannot be opened when the circuit breaker is switched on
- The axial length of the extended handle can be custom made according to the distance from the back of the circuit breaker to the door.

Rotary handle operating mechanism	Frame size	Handle shape	Extended (Default 150mm)
	KWN3-125	Round	KWN3125HL1
	KWN3-160	Round	KWN3160HL1
	KWN3-250	Round	KWN3250HL1
	KWN3-400	Round	KWN3400HL1
	KWN3-630	Round	KWN3630HL1
	KWN3-800/1000	Round	KWN3800HL1
	KWN3-1600	Square	KWN31600HL1

■ DIN Rail adaptor (DR)



It is an adapter plate that allows MCCB mounting on a DIN rail.

DIN Rail adaptor	Frame size	3P/4P
	KWN3-125	KWN3125DR3
	KWN3-160	KWN3160DR3
	KWN3-250	KWN3250DR3

■ Mechanical interlock (MI)

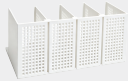
Mechanical interlock is intended to prohibit both power sources from being simultaneously connected to the load.

The interlocking system disables one circuit breaker by mechanically preventing handle movement from the Off position while the other circuit breaker is in the On position.

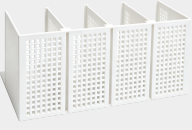
Mechanical interlock	Frame size	3P	4P
	KWN3-125	KWN3125MI3	KWN3125MI4
	KWN3-160	KWN3160MI3	KWN3160MI4
	KWN3-250	KWN3250MI3	KWN3250MI4
	KWN3-400	KWN3400MI3	KWN3400MI4
	KWN3-630	KWN3630MI3	KWN3630MI4
	KWN3-800/1000	KWN3800MI3	KWN3800MI4
	KWN3-1600	KWN31600MI3	KWN31600MI4

External Accessories

■ Terminal cover (TC)



Protection Degree: IP40
Protect from being contacted with main circuit.

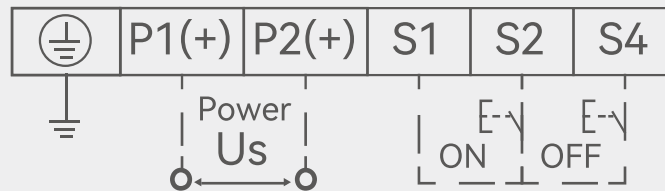
Terminal cover	Frame size	3P(2pcs)	4P(2pcs)
	KWN3-125	KWN3125TC3	KWN3125TC4
	KWN3-160	KWN3160TC3	KWN3160TC4
	KWN3-250	KWN3250TC3	KWN3250TC4
	KWN3-400	KWN3400TC3	KWN3400TC4
	KWN3-630	KWN3630TC3	KWN3630TC4

■ Motor (M)



- Apply to remote electric connection, disconnection and re-trip of the circuit breaker and the automation control occasions.
- Rated voltage of electric operating mechanism: AC400V;AC230V/DC220V;AC/DC110V;DC24V
- Operating voltage range of electric operating mechanism: 85%-110% Ue.

Electrical wiring diagram



- When operating manually, operate 180° clockwise and do not operate counter clockwise.
- Withstand voltage test: it should be between the incoming terminals P1 and P2 (excluding S1, S2 and S4) of the power supply and the installation screws of electric operation that can withstand 50Hz AC, power Frequency withstand voltage test of 1890V (withstand voltage test is prohibited when rated voltage is DC24V).
- P1 and P2 are forbidden to be connected to S1, S2 and S4 during electrical operation.

Electrical parameters

Frame size	IP degree	Current	Voltage	Switch on/off time	Electric life
KWN3-125	20	≤0.5 DC24V≤3	AC110V/DC110V AC230V/DC220V AC400V DC24V	≤0.7	10000
KWN3-160	20	≤0.8 DC24V≤3		≤0.7	10000
KWN3-250	20	≤0.8 DC24V≤3		≤0.7	10000
KWN3-400	20	≤1 DC24V≤6		≤1	5000
KWN3-630	20	≤1 DC24V≤6		≤1	5000
KWN3-800/1000	20	≤1 DC24V≤6		≤1	5000
KWN3-1600	20	≤2 DC24V≤6	AC230V/DC220V	≤2	1000

External Accessories

Motor	Frame size	AC110V	AC230V	AC400V	DC110V	DC220V	DC24V
	KWN3-125	KWN3125MAC1	KWN3125MAC2	KWN3125MAC3	KWN3125MDC1	KWN3125MDC2	KWN3125MDC3
	KWN3-160	KWN3160MAC1	KWN3160MAC2	KWN3160MAC3	KWN3160MDC1	KWN3160MDC2	KWN3160MDC3
	KWN3-250	KWN3250MAC1	KWN3250MAC2	KWN3250MAC3	KWN3250MDC1	KWN3250MDC2	KWN3250MDC3
	KWN3-400	KWN3400MAC1	KWN3400MAC2	KWN3400MAC3	KWN3400MDC1	KWN3400MDC2	KWN3400MDC3
	KWN3-630	KWN3630MAC1	KWN3630MAC2	KWN3630MAC3	KWN3630MDC1	KWN3630MDC2	KWN3630MDC3
	KWN3-800/1000	KWN3800MAC1	KWN3800MAC2	KWN3800MAC3	KWN3800MDC1	KWN3800MDC2	KWN3800MDC3
	KWN3-1600	-	KWN31600MAC2	-	-	KWN31600MDC2	-

■ Spreader links (C3/C4)



The spreader links are connected to the terminal of the circuit breaker, in order to provide many other wiring schemes in the limited space:

- Direct spreader links
- Spreader link with inter-electrode distance

The busbar and extension terminal can be connected to the inlet or outlet terminal of the circuit breaker.

Spreader links	Frame size	3P(6pcs)	4P(8pcs)
	KWN3-125	KWN3125C3	KWN3125C4
	KWN3-160	KWN3160C3	KWN3160C4
	KWN3-250	KWN3250C3	KWN3250C4
	KWN3-400	KWN3400C3	KWN3400C4
	KWN3-630	KWN3630C3	KWN3630C4
	KWN3-800	KWN3800C3	KWN3800C4
	KWN3-1000	KWN31000C3	KWN31000C4
	Frame size	3P(12pcs)	4P(16pcs)
	KWN3-1600	KWN31600C3	KWN31600C4

Note: All dimensions are in mm

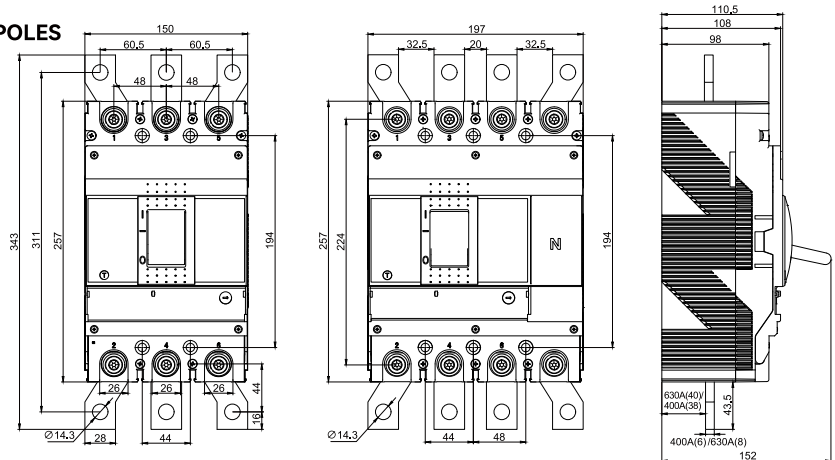
[illegible]

MCCB With Spreader Link Dimensions

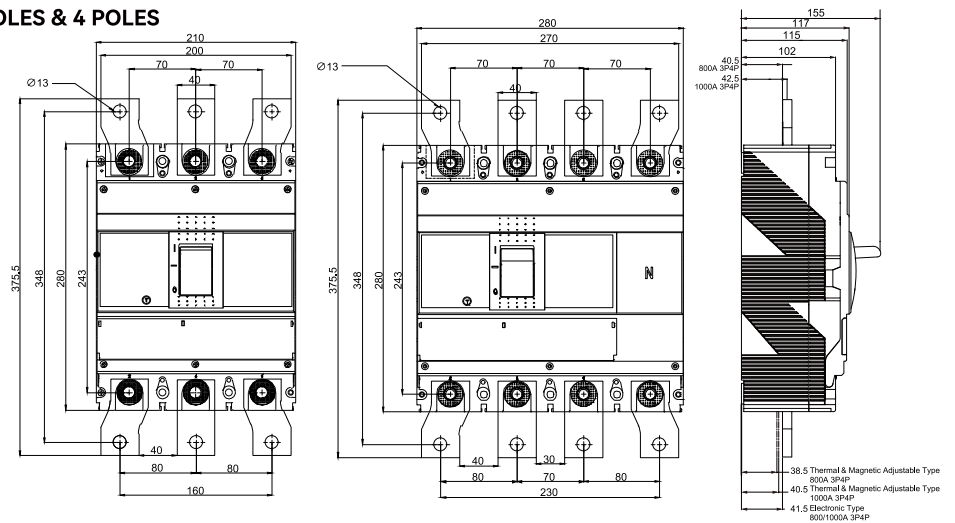
■ Front connection

Note: All dimensions are in mm

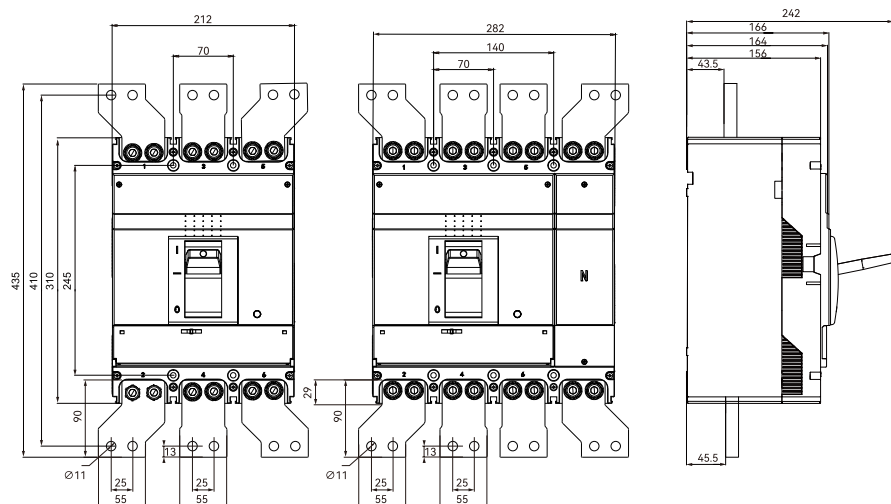
KWN3/3s/3sm/3E/i3E-400A/630A 3 POLES & 4 POLES



KWN3/3s/3sm/3E/i3E-800/1000A 3 POLES & 4 POLES



KWN3E-1600A 3 POLES & 4 POLES

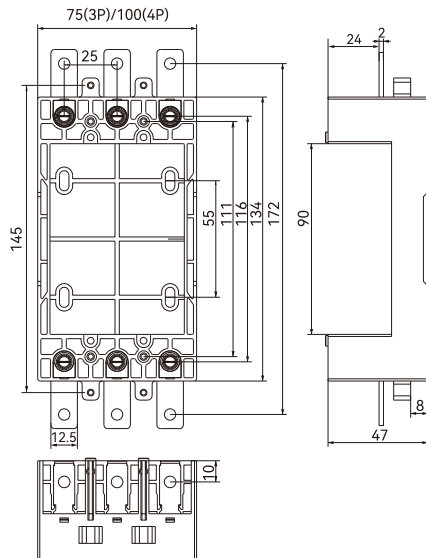


Plug-in MCCB Mounting Dimensions

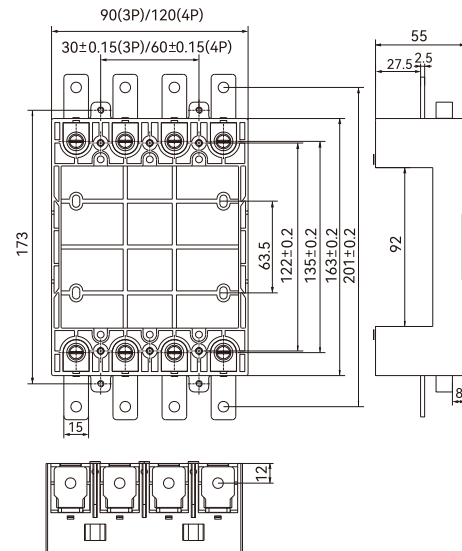
■ Front connection(mm)

Note: All dimensions are in mm

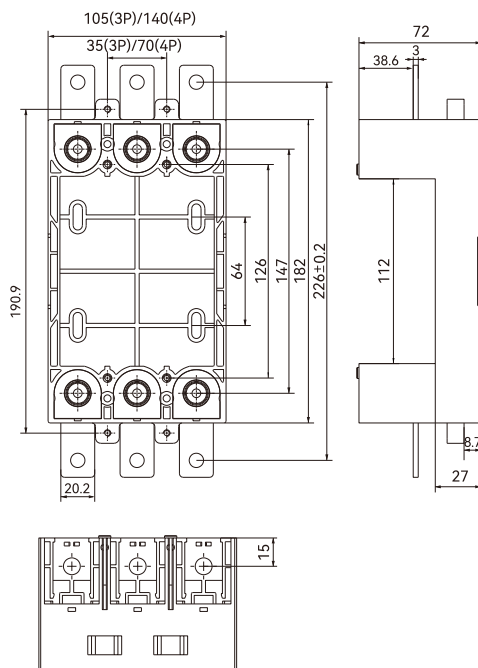
KWN3-125



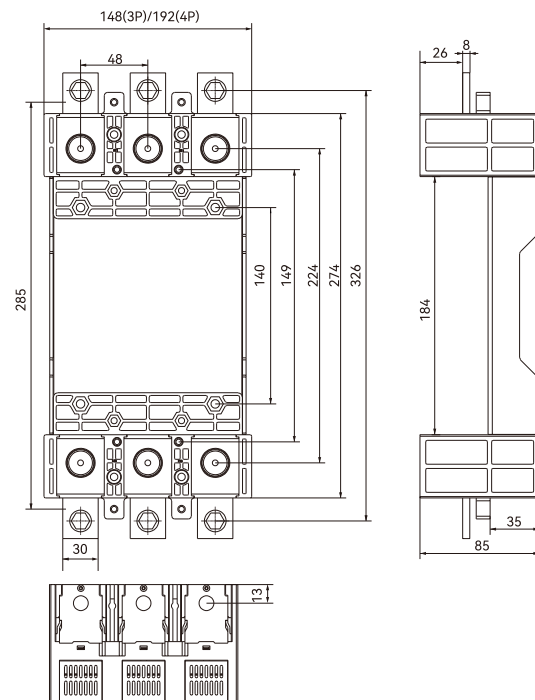
KWN3-160



KWN3-250

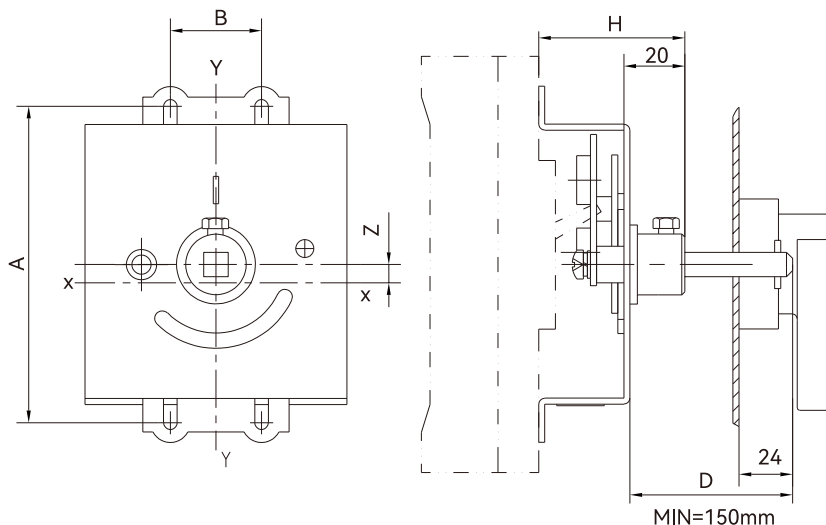


KWN3-400/630



Rotary handle operating mechanism Dimensions

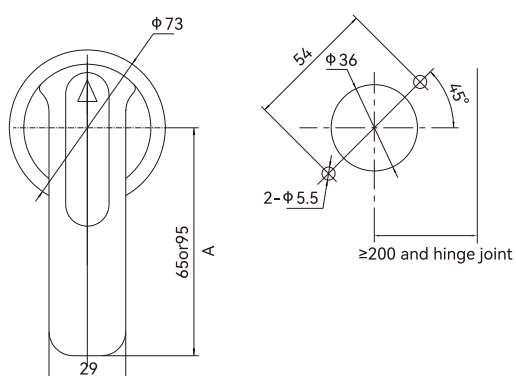
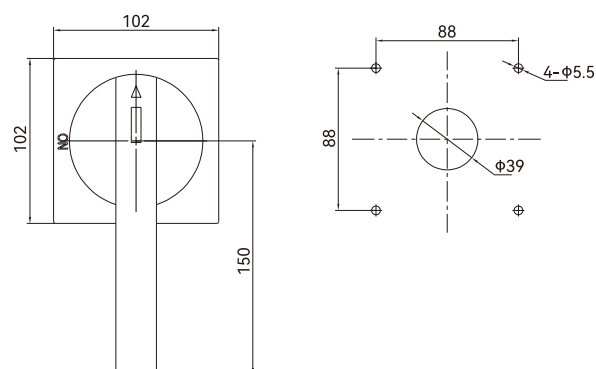
■ Mounting with MCCB dimensions(mm)



Model Number	Frame size	Installation dimensions			
		A	B	H	Z
CS1-125/KWN3	KWN3-125	111	25	53	0
CS1-160/KWN3	KWN3-160	122	30	58	
CS1-250/KWN3	KWN3-250	144	35	63	
CS1-400/KWN3	KWN3-400/630	221.5	44	77	
CS1-800/KWN3	KWN3-800/1000	245	198		
CS1-1600/KWN3	KWN3-1600	70	275	94	

■ Handle and door cutting dimensions(mm)

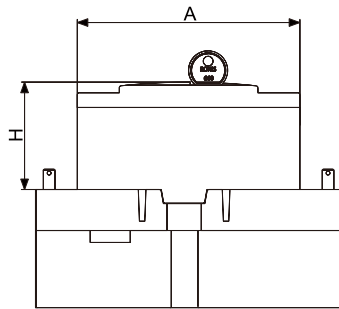
Round handle dimensions



Frame size	A
KWN3-125~1000	65/95

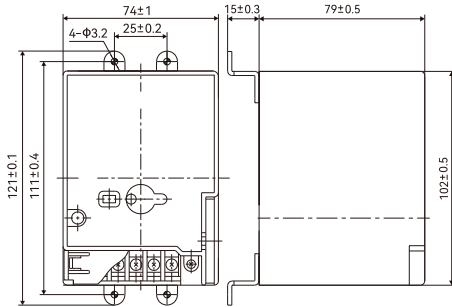
Frame size	A
KWN3-1600	150

Motor Mounted with MCCB Dimensions

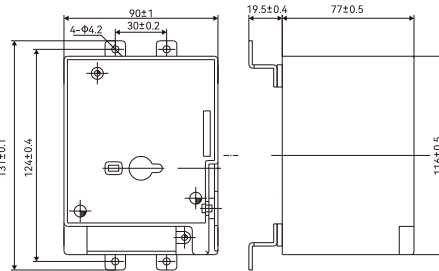


Frame size	A	H
KWN3-125	102	94
KWN3-160	116	96.5
KWN3-250	116	119
KWN3-400/630	176	144
KWN3-800/1000	176	149
KWN3-1600	176	139

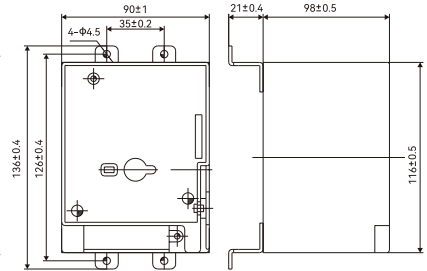
CD2-125/KWN3



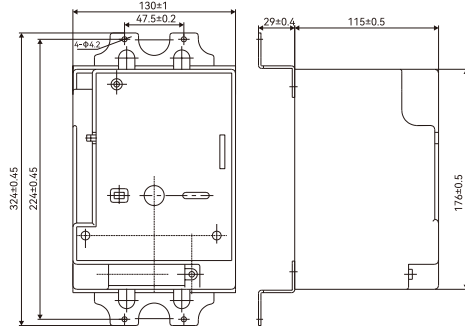
CD2-160/KWN3



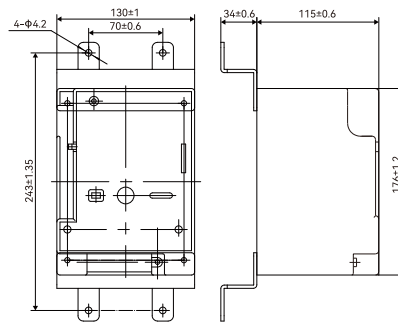
CD2-250/KWN3



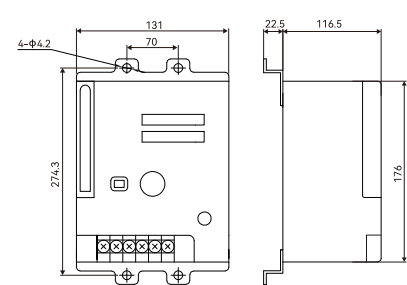
CD2-400/630 KWN3



CD2-800/1000 KWN3



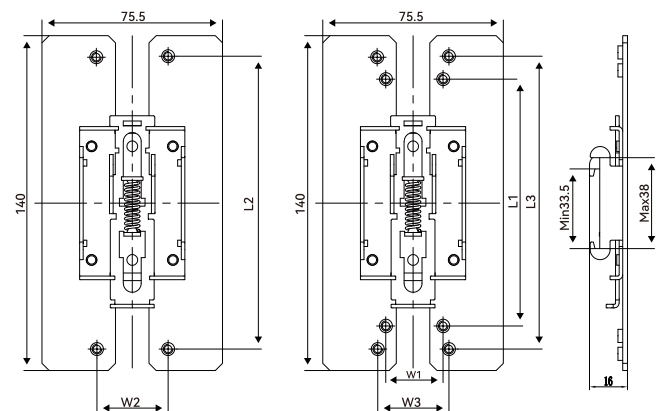
CD2-1600 KWN3



DIN Rail adaptator with MCCB Dimensions

■ Dimensions(mm)

Frame size	KWN3-125		KWN3-160		KWN3-250	
Dimensions	L1	W1	L2	W2	L3	W3
mm	111	25	122	30	126	35



Accessory installation and lead direction



OF (Auxiliary contact)



SD (Alarm switch)

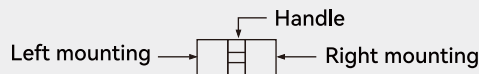
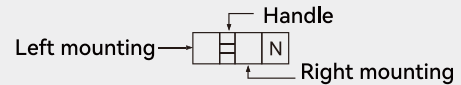


MX (Shunt trip)

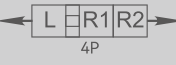


MN (Under-voltage release)

Illustrate



□ SD ■ OF ○ MN ● MX △ SD+OF ▲ TWO SETS OF → Lead direction

Item	Accessories	3P		4P		
		250A	125A,160A,400A, 630A,800A/1000A	125A	250A	160A,400A,630A, 800A/1000A
KWN3 (125-1000A Frame) KWN3s (125-1000A Frame) KWN3sm (160-1000A Frame) KWN3E (160-1000A Frame) iKWN3E (160-1000A Frame)  3P  4P Note: R2 can be installed with OF, TWO OF	SD					
	MX					
	OF					
	MN					
	SD+OF					
	TWO OF					
	MX,OF					
	MX,SD					
	MX,SD+OF					
	MX,TWO OF					
	MX,MN					
	MN,OF					
	MN,SD					
	MN,SD+OF					
	MN,TWO OF					
	OF,SD					
	OF,MX					
	OF,SD+OF					
	OF,TWO OF					
	OF,MN					
	SD,OF					
	SD,MX					
	SD,SD+OF					
	SD,TWO OF					
	SD,MN					
	SD+OF,OF					
	SD+OF,SD					
	SD+OF,MX					
	SD+OF,TWO OF					
	SD+OF,MN					
	TWO OF,OF					
	TWO OF,SD					
	TWO OF,MX					
	TWO OF,SD+OF					
	TWO OF,MN					

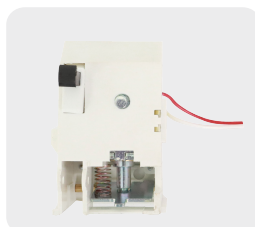
Accessory installation and lead direction



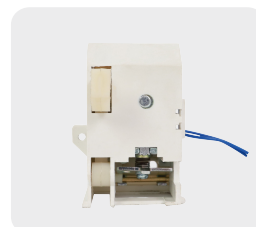
OF (Auxiliary contact)



SD (Alarm switch)

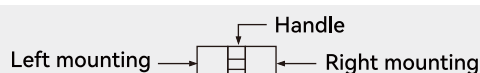
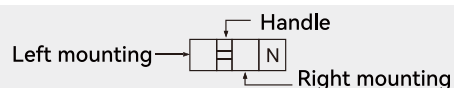


MX (Shunt trip)



MN(Under-voltage release)

Illustrate



□ SD ■ OF ○ MN ● MX △ SD+OF ▲ TWO SETS OF → Lead direction

Item	Accessories	3P	4P
		1600A	1600A
<div> <div> <div>KWN3E (1600A Frame)</div> <div> <div>3P</div> </div> </div> <div> <div>Note: R2 can be installed with OF, TWO OF</div> <div> <div>4P</div> </div> </div> </div>	SD		
	MX		
	OF		
	MN		
	SD+OF		
	TWO OF		
	MX,OF		
	MX,SD		
	MX,SD+OF		
	MX,TWO OF		
	MN,OF		
	MN,SD		
	MN,SD+OF		
	MN,TWO OF		
	MX,OF		
	MN,OF		
	MX,SD		
	MN,SD		
	MX,TWO OF		
	MN,TWO OF		

Accessory Code

Accessory Name	Tripping Type	Instantaneous Release	Combined Release
None		200	300
Alarm switch		208	308
Shunt trip		210	310
Auxiliary Contact		220	320
Under-voltage Release		230	330
Shunt trip Auxiliary Contact		240	340
Shunt trip & Under-voltage Release		250	350
2 Sets of Auxiliary Contacts		260	360
Auxiliary Contact & Under-voltage Release		270	370
Alarm switch & Shunt trip		218	318
Alarm switch & Auxiliary Contact		228	328
Under-voltage Release & Alarm switch		238	338
Auxiliary Contact, Alarm switch & Shunt trip		248	348
2 Sets of Auxiliary Contacts & Alarm switch		268	368
Under-voltage Release, Auxiliary Contact & Alarm switch		278	378

