

# MOULDED CASE CIRCUIT BREAKERS - ELECTRONIC TYPES



**MOD-E-400**

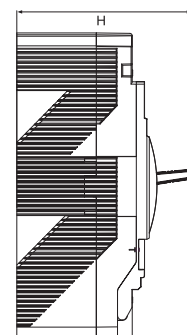
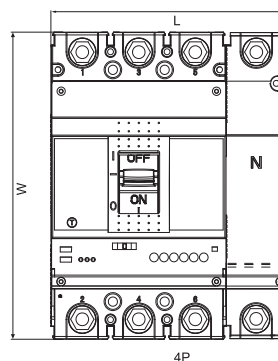
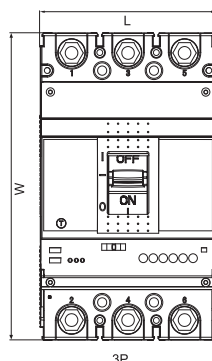
**MOD-E Moulded Case  
Circuit Breaker**

**Electronic Type With Button**

Frame Size	160		250		400	
Model	MOD-E-160		MOD-E-250		MOD-E-400	
Number of poles	3		3		3,4	
Rated current(A) In	100,125, 140,160		100,125,140, 160,180,200, 225,250		160,190,225, 250,275,300, 325,350,375, 400	
Standard	IEC60947-2					
Reference temperature	40°C/55°C					
Rated insulation voltage Ui (V)	800					
Rated impulse withstand voltage Uimp (kV)	8					
Breaking capacity level	L	M	L	M	L	M
Rated ultimate short-circuit breaking capacity Icu(kA)	35	50	35	50	65	100
Rated service short-circuit breaking capacity Ics(kA)	22	35	22	35	50	75
Mechanical Endurance	8500		7000		4000	
Electrical Endurance	1500		1000		1000	
Electronic Button Display	■		■		■	
Installation						
Front connection(FC)	■		■		■	
Straight extension bars(FB)	■		■		■	
Spread extension bars(FB)	■		■		■	
Rear connection(RC)	■		■		■	
Phase barrier	■		■		■	
Dimensions mm(L×W×H)	3P	92x150x110	107x165x127	150x257x148		
	4P	—	—	198x257x148		



“■” shows it has this option; “-” means it has no this option.



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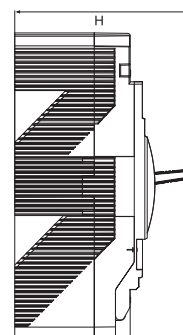
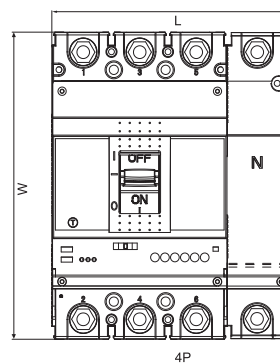
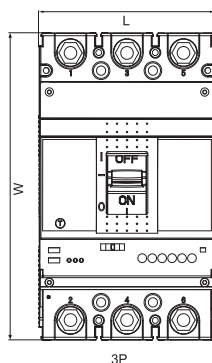
## MOD-E Moulded Case Circuit Breaker

## Electronic Type With Button

Frame Size	630		800	
Model	MOD-E-630		MOD-E-800	
Number of poles	3,4		3,4	
Rated current(A) In	250,300,350,400, 435,475,515,550, 595,630		320,435,550,630, 660,690,715,745, 770,800	
Standard	IEC60947-2			
Reference temperature	40°C/55°C			
Rated insulation voltage Ui (V)	800			
Rated impulse withstand voltage Uimp (kV)	8			
Breaking capacity level	M	H	M	H
Rated ultimate short-circuit breaking capacity Icu(kA)	65	100	65	100
Rated service short-circuit breaking capacity Ics(kA)	50	75	50	75
Mechanical Endurance	4000		2500	
Electrical Endurance	1000		500	
Electronic Button Display	■		■	
Installation				
Front connection(FC)	■		■	
Straight extension bars(FB)	■		■	
Spread extension bars(FB)	■		■	
Rear connection(RC)	■		■	
Phase barrier	■		■	
Dimensions mm(L×W×H)	3P	150x257x148		210x280x155
	4P	198x257x148		280x280x155



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## Setting Parameters For MCCB With Button

Frame size	400A	630A	800A
Ir(A)=Long delay current range	0.4-1.0xIn	0.4-1.0xIn	0.4-1.0xIn
Ir(A)=Long delay current setting	160,190,225,252,275,300,325,350,375,400A	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	12,60,100,150 sec+OFF	12,60,100,150 sec+OFF
Isd(A)=Short circuit protection of low level faults.	2,2.5,3,4,5,6,7,8,10 12 x Ir(A)	2,2.5,3,4,5,6,7,8,10 12 x Ir(A)	2,2.5,3,3.5,4,5,6,7,8, 10 x Ir(A)
tsd (S)=short circuit protection time at low level faults	0.06,0.1,0.2,0.3,0.4,0.5,1.0 sec+OFF	0.06,0.1,0.2,0.3,0.4,0.5,1.0 sec+OFF	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 xIr(A)+OFF	4,6,7,8,9,10,11,12,14 xIr(A)+OFF	4,5,6,7,8,9,10,11,12, xIr(A)+OFF
I <sub>p</sub> (A)=Pre trip alarm setting multiple	0.7,0.75,0.8,0.85,0.9,0.95,1.0xIr(A)	0.7,0.75,0.8,0.85,0.9,0.95,1.0xIr(A)	0.7,0.75,0.8,0.85,0.9,0.95,1.0xIr(A)
For 4P I <sub>g</sub> (A)=Ground fault pickup current	0.2,0.3,0.4,0.5,0.6,0.7,0.8,0.9,1.0xIn+OFF	0.2,0.3,0.4,0.5,0.6,0.7,0.8,0.9,1.0xIn+OFF	0.2,0.3,0.4,0.5,0.6,0.7,0.8,0.9,1.0xIn+OFF
For 4P t <sub>g</sub> (S)=Ground fault pickup time	Fixed for 0.4 sec	Fixed for 0.4 sec	Fixed for 0.4 sec