

# MOD LCD

Molded
Case
Circuit
Breakers





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# **Electronic Type With LCD**

The MOD MCCB Electronic Type With LCD series is suitable for AC 50Hz/60Hz, rated voltage up to 415V, rated current from 16A to 400A and is acted as infrequent changeover of circuit or infrequent starting of motor.

#### **Benefits**

- High breaking capacity up to 100 kA
- Optional electrical accessories
- ▶ Digitization and information management by Internet of Things
- Remote monitoring and controlling on circuit breakers

#### **Features**

- Cambered projecting panel
- Anti-touch transparent cover
- Anti-flame & insulated enclosure
- Ergonomic handle
- Tripping button
- Liquid Crystal Display

#### **Standards**

- ▶ IEC 60947-2
- ▶ IEC 60947-5-1



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#### **MODx LCD characteristics**

Technical data	Symbol	Unit	MOD3 LCD		MOD	MOD4 LCD		MOD5 LCD	
Standard			GB/T14048.2 IEC60947-2						
Rated current	In	А	250, 400 250, 400, 630 630, 800					, 800	
Number of poles					3,	, 4			
Reference temperature			40 °C / 55 °C						
Rated operational voltage	U <sub>e</sub>	V		380 / 400 / 415 V AC					
Rated insulation voltage	Ui	V	1.000						
Rated impulse withstand voltage	U <sub>imp</sub>	kV	8						
Breaking capacity level			М	Н	М	Н	М	Н	
Rated ultimate short-circuit breaking capacity	I <sub>cu</sub>	kA	85	100	85	100	85	100	
Rated service short-circuit breaking capacity	Ics	kA	60	75	60	75	60	75	
Mechanical endurance			10.000 10.000 2.500			500			
Electrical endurance			4.000 4.000		500				
Installation									
Auxiliary contact (OF)				•		•		•	
Alarm switch (SD)			(	•		•		•	
Shunt trip (MX)			• •			•			
Under-voltage release (MN)			• •			•			
AC motor mechanism			• •			•			

# **MOD3 LCD - Electronic type**

Туре	Rated Current I <sub>cu</sub> (kA)	Number of Poles	Ordering No.	Weight (kg)	MOQ (pcs)
Standard rated short cap	ability				
MOD3 LCD 3EH 250A	85	3	786.103.801	5.50	6
MOD3 LCD 4EH 250A	85	4	786.103.802	6.80	4
MOD3 LCD 3EH 400A	85	3	786.103.803	5.50	6
MOD3 LCD 4EH 400A	85	4	786.103.804	6.80	4



# **MOD4 LCD - Electronic type**

Ctandard rated short canability								
Standard rated short capability								
MOD4 LCD 3EH 250A	85	3	786.103.805	8.00	4			
MOD4 LCD 4EH 250A	85	4	786.103.806	11.30	2			
MOD4 LCD 3EH 400A	85	3	786.103.807	8.00	4			
MOD4 LCD 4EH 400A	85	4	786.103.808	11.30	2			
MOD4 LCD 3EH 630A	85	3	786.103.809	8.00	4			
MOD4 LCD 4EH 630A	85	4	786.103.811	11.30	2			



# **MOD5 LCD - Electronic type**

Standard rated short capability							
MOD5 LCD 3EH 630A	85	3	786.103.812	8.00	2		
MOD5 LCD 4EH 630A	85	4	786.103.813	11.30	2		
MOD5 LCD 3EH 800A	85	3	786.103.814	8.00	2		
MOD5 LCD 4EH 800A	85	4	786.103.815	11.30	2		



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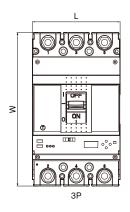


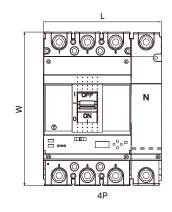
# Setting parameters

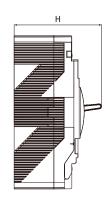
	Symbol	Unit	250 A	400 A	630 A	800 A
Rated current	In	А	250	400	630	800
Long delay current range	Ir	А	0.4 - 1.0 xln	0.4 - 1.0 xln	0.4 - 1.0 xln	0.4 - 1.0 xln
Long delay current setting	I <sub>r</sub>	А	100 - 250A with increment by 1A	160 - 400A with increment by 1A	252 - 630A with increment by 1A	320 - 800A with increment by 1A
Long delay time	t <sub>r</sub>	S	12 - 150s with increment by 1s + OFF	12 - 150s with increment by 1s + OFF	12 - 150s with increment by 1s + OFF	12 - 150s with increment by 1s + 0FF
Short circuit protection of low level faults	I <sub>sd</sub>	А	200 - 3000A with increment by 1A	320 - 4800A with increment by 1A	500 - 7560A with increment by 1A	650 - 9600A with increment by 1A
Short time	t <sub>sd</sub>	S	0.06 - 1s with increment by 0.02 s + OFF	0.06 - 1s with increment by 0.02 s + OFF	0.06 - 1s with increment by 0.02 s + 0FF	0.06 - 1s with increment by 0.02 s + 0FF
Short circuit protection of high level faults	l <sub>i</sub>	А	400 - 3500A with increment by 1A + 0FF	640 - 3500A with increment by 1A + OFF	1000 - 8820A with increment by 1A + OFF	1300 - 9600A with increment by 1A + OFF
Pre-trip alarm setting multiple	Ip	А	70 - 250A with increment by 1A	112 - 400A with increment by 1A	175 - 630A with increment by 1A	228 - 800A with increment by 1A
For 4P						
Ground fault pickup current	lg	А	50 - 250A with increment by 1A + OFF	80 - 400A with increment by 1A + OFF	126 - 630A with increment by 1A + OFF	160 - 800A with increment by 1A + OFF
Ground fault pickup time	tg	S	Fixed for 0.4 sec	Fixed for 0.4 sec	Fixed for 0.4 sec	Fixed for 0.4 sec

# **Dimensions**

Dimensions (L x W x H)	3P	mm	150 × 257 × 148	150 × 257 × 148	210 × 280 × 155
	4P	mm	198 × 257 × 148	198 × 257 × 148	280 × 280 × 155







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