

3HM1(CM1) Series Moulded Case Circuit Breakers

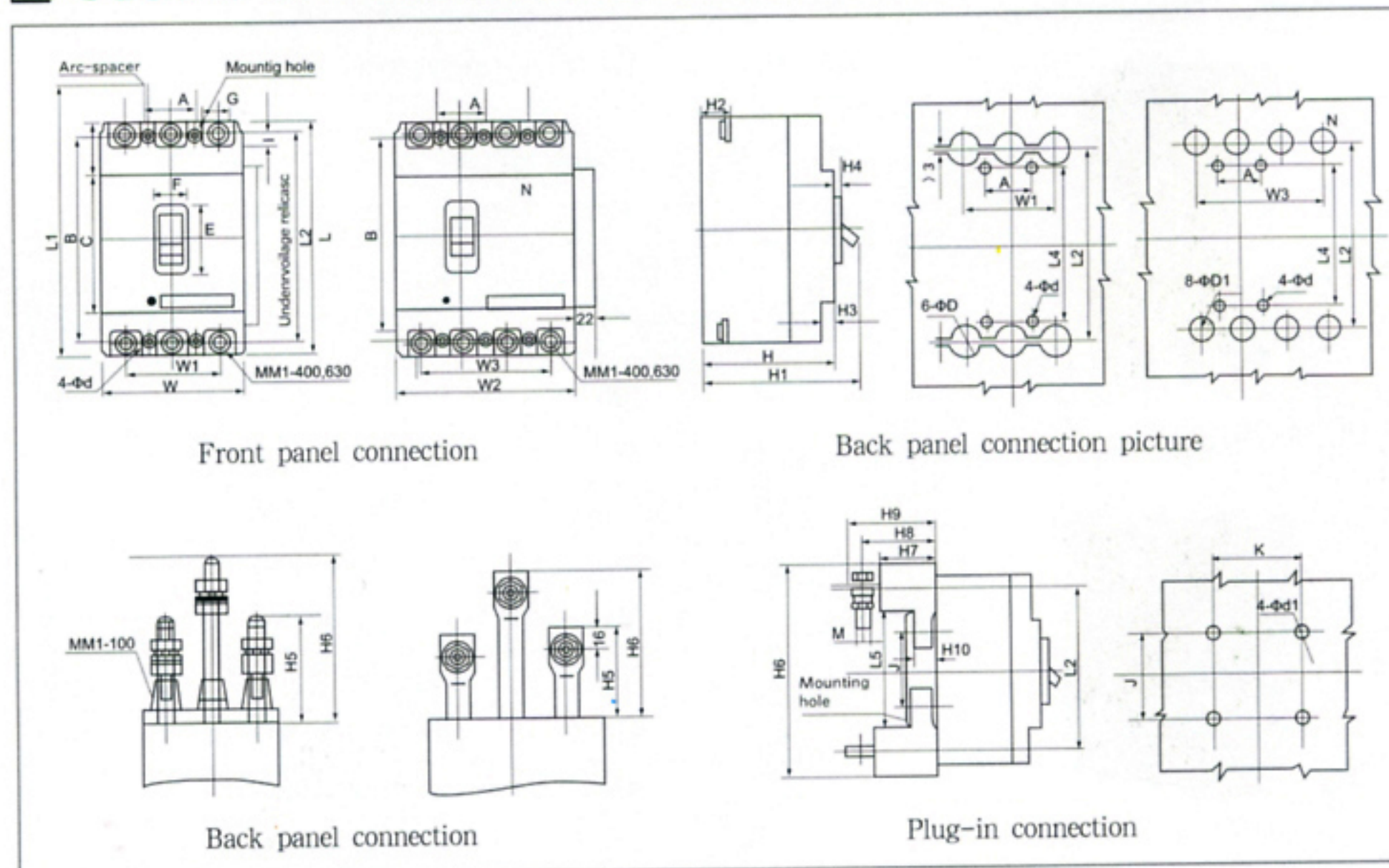
Application

3HM1(CM1) series of moulded case circuit breaker is one of our new type products developed and manufactured by adopting international advance technology. It is supplied with rated voltage 660V and used for circuit of A.C. 50Hz, rated operating voltage AC 380V.(or below), rated operating current up to 800A for infrequent changing over and starting of the motors. Equipped with the protection devices for over-current, short circuit and undervoltage, the products are capable of preventing damage of circuits and supply units.

Main technical specification

Type	Rated current (A)	Pole number	Rated insulating voltage (V)	Rated operating voltage (V)	Arcing-over distance (mm)	Ultimate short circuit breaking capacity (KA)	Services short circuit breaking capacity (KA)	Operation performance	
								ON	OFF
3HM1-63L	6,10,16,20,25	Three four pole	660V	380V	0	25	18		
3HM1-63M	32,40,50,63				0	50	35		
3HM1-100C	10,16,20,25				0	25	18		
3HM1-100L	32,40,50,63				0(< 50)	35	22	1500	8500
3HM1-100M	80,100				0(< 50)	50	35		
3HM1-100H					0(< 50)	85	50		
3HM1-225C	100,125				< 50	25	18		
3HM1-225L	160,180				< 50	35	22		
3HM1-225M	200,225				< 50	50	35	1000	7000
3HM1-225H					< 50	85	50		
3HM1-400C	225,250,315				< 50	35	25		
3HM1-400L	350,400				< 50	50	35		
3HM1-400M					< 100	65	42		
3HM1-630C	400				< 100	35	25		
3HM1-630L	500				< 100	50	35		
3HM1-630M	630				< 100	65	42		
3HM1-630H					< 100	100	65	1000	4000
3HM1-800M	630,700,800				< 100	65	42		
3HM1-800H					< 100	100	65		

Outline and installation dimensions





Type	Outline dimension (mm)																		
	Front panel connection																	W2	W3
	W	W1	L	L1	L2	H	H1	H2	H3	H4	C	D	E	F	G	I			
3HMI-63L	76	50	135	170	117				7	4	85	28.5	48	22	14	7.5	100	75	
3HAMI-63M	76	50	135	170	117	82	98.5	28	7	4	85	28.5	48	22	14	7.5	100	75	
3HMI-100C	92	60	150	185	132	68	86	24	7	4	88	35.5	50	22	17.5	7.5			
3HMI-100L	92	60	150	185	132	68	86	24	7	4	88	35.5	50	22	17.5	7.5			
3HMI-100M	92	60	150	185	132	86	104	24	7	4	88	35.5	50	22	17.5	7.5	122	90	
3HMI-100H	92	60	150	185	132	86	104	24	7	4	88	35.5	50	22	17.5	7.5			
3HMI-225C	107	70	165	215	144	86	110	24	5	4	102	31.5	50	22	17	9			
3HMI-225L	107	70	165	215	144	86	110	24	5	4	102	31.5	50	22	17	9			
3HMI-225M	107	70	165	215	144	103	127	24	5	4	102	31.5	50	22	17	9	142	105	
3HMI-225H	107	70	165	215	144	103	127	24	5	4	102	31.5	50	22	17	9			
3HMI-400C	150	96	257	357	224	105	155	38	8	6	128	64.5	89	65	∅26				
3HMI-400L	150	96	257	357	224	105	155	38	8	6	128	64.5	89	65	∅26		198	144	
3HMI-400M	182	116	270	370	234	110	160	43	8	6	134	70	89	65	∅29				
3HMI-630C	182	116	270	370	234	110	160	43	8	6	134	70	89	65	∅29				
3HMI-630L	182	116	270	370	234	110	160	43	8	6	134	70	89	65	∅29		240	174	
3HMI-630M	182	116	270	370	234	110	160	43	8	6	134	70	89	65	∅29				
3HMI-630H	210	140	280	380	243	106	145	33	30	128									
3HMI-800M	210	140	280	380	243	106	145	33	30	128									
3HMI-800H	210	140	280	380	243	106	145	33	30	128									

Type	Outline dimension (mm)																Installation dimensions		
	Back panel connection								Plug-in connection								A	B	∅d
	L3	L4	H5	H6	∅D	∅D1	L5	L6	H7	H8	H9	H10	J	K	∅d1	M			
3HMI-63L	117	117	44	66	8	8											25	117	3.5
3HMI-63M	117	117	44	66	8	8											25	117	3.5
3HMI-100C	107	129	68	108	26	16	92	168	50	62	74	17.5	56	60	6.5	M8	30	129	4.5
3HMI-100L	107	129	68	108	26	16	92	168	50	62	74	17.5	56	60	6.5	M8	30	129	4.5
3HMI-100M	107	129	68	108	26	16	92	168	50	62	74	17.5	56	60	6.5	M8	30	129	4.5
3HMI-100H	107	129	68	108	26	16	92	168	50	62	74	17.5	56	60	6.5	M8	30	129	4.5
3HMI-225C	126	126	66	110	20	20	94	183	50	69.5	84.5	17.5	54	70	6.5	M8	35	126	5
3HMI-225L	126	126	66	110	20	20	94	183	50	69.5	84.5	17.5	54	70	6.5	M8	35	126	5
3HMI-225M	126	126	66	110	20	20	94	183	50	69.5	84.5	17.5	54	70	6.5	M8	35	126	5
3HMI-225H	126	126	66	110	20	20	94	183	50	69.5	84.5	17.5	54	70	6.5	M8	35	126	5
3HMI-400C	194	194	60	120	33	33	169	279	60	83.5	106.5	21	129	60	8.5	M10	44	194	7
3HMI-400L	194	194	60	120	33	33	169	279	60	83.5	106.5	21	129	60	8.5	M10	44	194	7
3HMI-400M	200	200	65	125	36	36	169	299	60	92	110	21	123	100	8.5	M10	58	200	7
3HMI-630C	200	200	65	125	36	36	169	299	60	92	110	21	123	100	8.5	M10	58	200	7
3HMI-630L	200	200	65	125	36	36	169	299	60	92	110	21	123	100	8.5	M10	58	200	7
3HMI-630M	200	200	65	125	36	36	169	299	60	92	110	21	123	100	8.5	M10	58	200	7
3HMI-630H																	70	243	7.2
3HMI-800M																	70	243	7.2
3HMI-800H																	70	243	7.2

Classification of mccb

According to product poles, two kinds of three-pole and four pole are provided.

The neutral pole (N pole) of four pole has four types:

Type A: No current trip-release on N pole which making all the time; not closing and opening with the other three poles.

Type B: No current trip-release on N pole which closing and opening with the other three poles.

Type C: With current trip-release on N pole which closing and opening with the other three poles.

Type D: With current trip-release on N pole which making all the time; not closing and opening with the other three poles.