

3HM3 Series Moulded Case Circuit Breakers

Application

3HM3 series moulded case circuit breaker, it's applicable circuit of AC 50Hz (or 60Hz), rated insulation voltage 660V, rated operating voltage under AC 660V, 250V(DC), rated operating current 10A-800V, for distribute energy of electricity and infrequent making and breaking circuit, in normal conditions. The MCCB rated current under 400A they are provided with the function of the protection against overload and short circuit and undervoltage. The MCCB complies with standard of IEC 947-2, GB14048.2, GB14048.4 and so on.



Classification of MCCB

Installation type of MCCB: MCCB are suitable for vertical or horizontal installation.

According to use of MCCB: Distribution circuit protection type, motor protection type;

According to connection way: Front panel connection, Back panel connection, Plug-in connection;

According to operation way: For direct handle operating; For external rotary handle operating; For motor operating;

According to overload release type: Magnetic release (only instantaneous) the modynamic type (dual)

According to number of poles: Two poles, Three poles, Four poles;

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

Type A: No overload release on N pole, which is making at all time; not closing and opening with the other three poles.

Type B: No overload release on N pole, which closing and opening with the other three poles.

Type C: With overload release on N pole, which closing and opening with the other three poles.

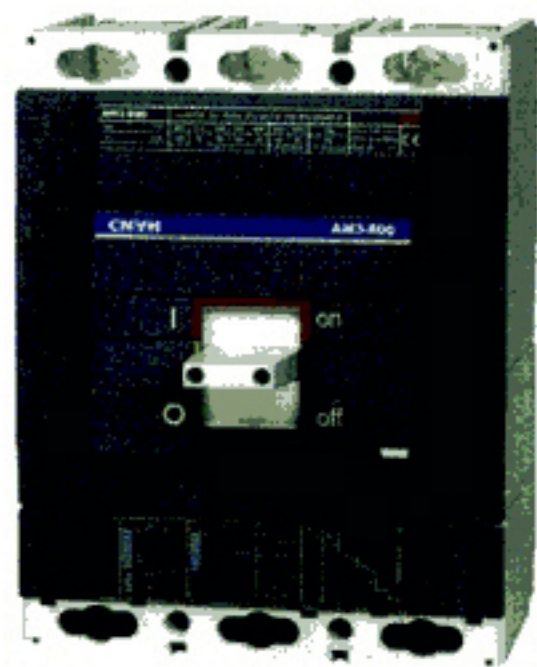
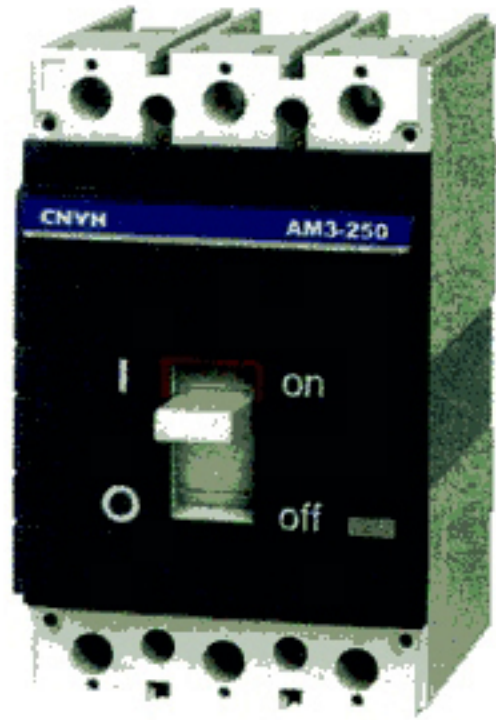
Type D: With overload release on N pole, which making all time; not closing and opening with the other three poles.

Type E: With a neutral pole interruption protector on N pole that closing or opening with other three poles.



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)			Service short circuit breaking capacity (KA)		Operation performance (Endurance)		Overall dimensions				
						AC380V (400)	AC660V (690)	DC250	AC380V (400)	AC660V (690)	有载 Load	无载 Unload	L	W (3P/4P)	H		
3HM3-125M	12.5,16,20,25,32,40,50,63,80,100,125	Two three four pole	660V	380V 660V	0	15	-	-	7.5	-	3000	7000	120	76/101	70		
3HM3-125S	16,20,32,40,50,63,80,100,125,160					25	-	20	16	-	-	-	-	-	-	-	-
3HM3-160S	16,20,32,40,50,63,80,100,125,160					35	8	20	18	-	4000	6000	120	90/120	70	-	-
3HM3-160H	125,160					50	10	40	25	-	-	-	-	-	-	-	-
3HM3-250S	100,125,160,180,200,225,250					35	10	40	18	-	2000	6000	170	105/140	103.5	-	-
3HM3-250M	180,200,225,250					50	16	40	30	-	-	-	-	-	-	-	-
3HM3-250H	225,250					65	18	40	48	-	-	-	-	-	-	-	-
3HM3-400S	200,225,250,315,350,400					35	16	40	18	-	1000	4000	254	140/184	103.5	-	-
3HM3-400M	315,350,400					50	20	40	30	-	-	-	-	-	-	-	-
3HM3-400H						65	25	40	48	-	-	-	-	-	-	-	-
3HM3-630S	400,500,630					50	20	40	30	-	1000	4000	268	210/280	103.5	-	-
3HM3-630M	400,500,630					65	25	40	48	-	-	-	-	-	-	-	-
3HM3-630H		80	30	40	60	-	-	-	-	-	-	-	-				
3HM3-800S	500,630,700,800	50	20	40	30	-	1000	4000	268	210/280	103.5	-	-				
3HM3-800M	700,800	65	25	40	48	-	-	-	-	-	-	-	-				
3HM3-800H		80	30	40	60	-	-	-	-	-	-	-	-				



Outline and installation dimensions

Type	Outline dimension (mm)													
	Front panel connection							Back panel connection						
	W	L	H	W1	L1	H1	H2	H3	W'	W1'	L2	L3	L4	
3HM3-125	76.2	124	70	50	120	91	25.5	75	101.2	75	45	102	63	18
3HM3-160	90	124	70	60	120	93	27.5	75	120	90	45	102	63	18
3HM3-250	105	175	101.5	70	170	135	25		140	105	105	139	71.75	
3HM3-400	140	259	101.5	87.5	254	135	25		183.75	131.25	105	218	105.25	30
3HM3-630	210	273	101.5	140	268	167.5	23		280	210	105	241	111.75	50
3HM3-800	210	273	101.5	140	268	167.5	23		280	210	105			

Type	Outline dimension (mm)														
	Plug-in front panel connection					Plug-in connection back panel connection					Installation dimensions				
	H4	H5	H6	L5	B2	H7	H8	H9	H10	A1	A1'	A	A'	B	Φ2
3HM3-125	123	52	2.5	60	144					25	50	25	25	100	4.5
3HM3-160	123	52	2.5	60	144					30	60	30	30	100	4.5
3HM3-250	153		3		100	36	153	184.5	79.5	45	80	35	70	139	5.5
3HM3-400	153		3	65.75	135	37	153	184.5	79.5	115	160	43.75	87.5	214	5.5
3HM3-630												70	140	237	5.5
3HM3-800												70	140	237	5.5

Note: W', A', W', A1', are four poles dimensions.

