



NB1-63H/2 Moulded Case Circuit Breaker

1. General

1.1 Function

protection of circuits against short-circuit currents, protection of circuits against overload currents, switch, isolation.

NB1-63H/2 circuit-breakers are used in domestic installation, as well as in commercial and industry electrical distribution systems.

RoHS

2. Technical data

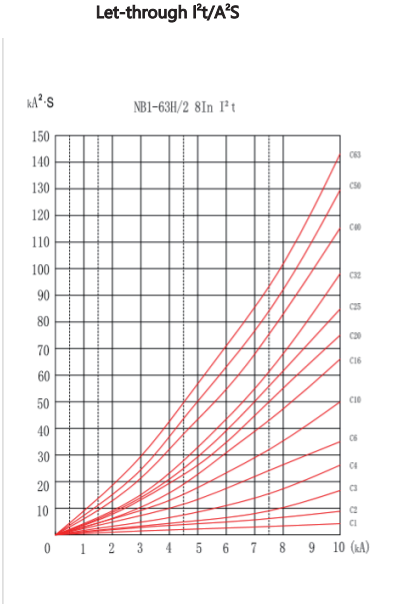
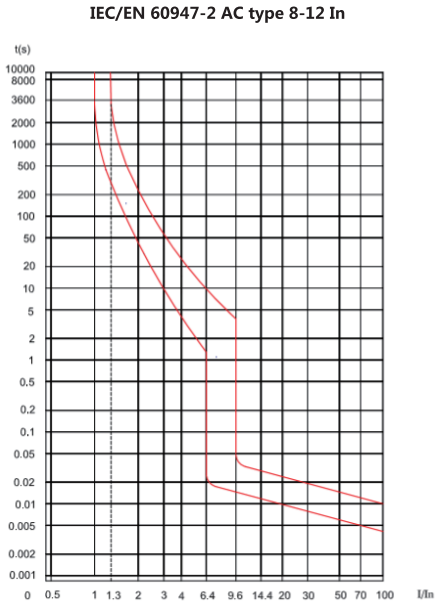
2.1 Data sheet

	Standard		IEC/EN 60947	
Electrical features	Rated current I_n	A	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63	
	Poles		1P, 1P+N, 2P, 3P, 3P+N, 4P	
	Rated voltage U_e	V	230/400~240/415	
	Insulation voltage U_i	V	500	
	Rated frequency		50/60Hz	
	Rated breaking capacity	A	10000	
	Energy limiting class		3	
	Rated impulse withstand voltage(1.2/50) U_{imp}	V	6000	
	Dielectric test voltage at ind. Freq. for 1 min	kV	2	
	Pollution degree		2	
	Power loss per pole		Rated current (A)	Max power loss per pole(W)
			1, 2, 3, 4, 5, 6, 10	2
			13, 16, 20, 25, 32	3.5
			40, 50, 63	5
	Thermo-magnetic release characteristic		B, C, D	
Mechanical features	Electrical life		10,000	
	Mechanical life		20,000	
	Contact position indicator		Yes	
	Protection degree		IP20	
	Reference temperature for setting of thermal element	°C	30	
	Ambient temperature (with daily average $\leq 35^\circ\text{C}$)	°C	0... +55	
	Storage temperature	°C	-25...+70	
Installation	Terminal connection type		Cable/U-type busbar/Pin-type busbar	
	Terminal size top/bottom for cable	mm ²	25	
		AWG	18-4	
	Terminal size top/bottom for busbar	mm ²	10	
		AWG	18-8	
	Tightening torque	N·m	2.5	
		In-lbs.	22	
	Mounting		On DIN rail EN 60715 (35mm) by means of fast clip device	
Combination with accessories	Connection		From top or bottom	
	Weight	kg	0.11/per pole	
	Auxiliary contact		Yes	
	Shunt release		Yes	
	Under voltage release		Yes	
	Alarm contact		Yes	

DC parameters

Number of poles	1P			2P		
Rated operational voltage Ue (V)	60VDC	80VDC	110VDC	80VDC	125VDC	220VDC
Rated current In (A)	6, 10, 16, 20, 25, 32, 40, 50, 63 A					
Rated ultimate short circuit breaking capacity Icu (kA)	20	10	10	20	20	10
Rated service short circuit breaking capacity Ics (kA)	15	7.5	7.5	15	15	7.5

2.2 Curves



3. Overall and mounting dimensions (mm)

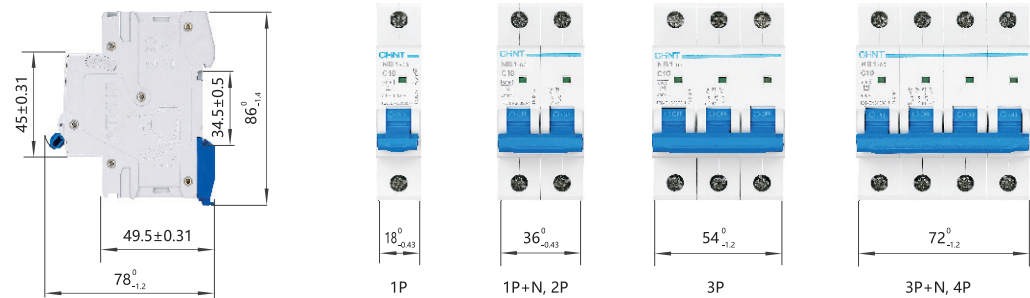
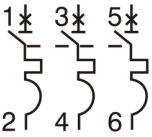
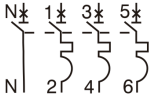


Diagram	Curve	Poles	In(A)	Icu(kA)	Ue(V)	Description	Code
	C	2P	1	10	AC400	NB1-63H/2 2P C1 8In	276487
	C	2P	2	10	AC400	NB1-63H/2 2P C2 8In	276488
	C	2P	3	10	AC400	NB1-63H/2 2P C3 8In	276489
	C	2P	4	10	AC400	NB1-63H/2 2P C4 8In	276490
	C	2P	6	10	AC400	NB1-63H/2 2P C6 8In	276491
	C	2P	10	10	AC400	NB1-63H/2 2P C10 8In	276492
	C	2P	16	10	AC400	NB1-63H/2 2P C16 8In	276493
	C	2P	20	10	AC400	NB1-63H/2 2P C20 8In	276494
	C	2P	25	10	AC400	NB1-63H/2 2P C25 8In	276495
	C	2P	32	10	AC400	NB1-63H/2 2P C32 8In	276496
	C	2P	40	10	AC400	NB1-63H/2 2P C40 8In	276497
	C	2P	50	10	AC400	NB1-63H/2 2P C50 8In	276498
	C	2P	63	10	AC400	NB1-63H/2 2P C63 8In	276499
	C	2P	6	10	AC400, DC220	NB1-63H/2 2P C6 8In DC220V	309058
	C	2P	10	10	AC400, DC220	NB1-63H/2 2P C10 8In DC220V	309059
	C	2P	16	10	AC400, DC220	NB1-63H/2 2P C16 8In DC220V	309060
	C	2P	20	10	AC400, DC220	NB1-63H/2 2P C20 8In DC220V	309061
	C	2P	25	10	AC400, DC220	NB1-63H/2 2P C25 8In DC220V	309062
	C	2P	32	10	AC400, DC220	NB1-63H/2 2P C32 8In DC220V	309063
	C	2P	40	10	AC400, DC220	NB1-63H/2 2P C40 8In DC220V	309064
	C	2P	50	10	AC400, DC220	NB1-63H/2 2P C50 8In DC220V	309065
	C	2P	63	10	AC400, DC220	NB1-63H/2 2P C63 8In DC220V	309066
	C	3P	1	10	AC400	NB1-63H/2 3P C1 8In	276500
	C	3P	2	10	AC400	NB1-63H/2 3P C2 8In	276501
	C	3P	3	10	AC400	NB1-63H/2 3P C3 8In	276502
	C	3P	4	10	AC400	NB1-63H/2 3P C4 8In	276503
	C	3P	6	10	AC400	NB1-63H/2 3P C6 8In	276504
	C	3P	10	10	AC400	NB1-63H/2 3P C10 8In	276505
	C	3P	16	10	AC400	NB1-63H/2 3P C16 8In	276506
	C	3P	20	10	AC400	NB1-63H/2 3P C20 8In	276507
	C	3P	25	10	AC400	NB1-63H/2 3P C25 8In	276508
	C	3P	32	10	AC400	NB1-63H/2 3P C32 8In	276509
	C	3P	40	10	AC400	NB1-63H/2 3P C40 8In	276510
	C	3P	50	10	AC400	NB1-63H/2 3P C50 8In	276511
	C	3P	63	10	AC400	NB1-63H/2 3P C63 8In	276512
	C	3P	63	10	AC400	NB1-63H/2 3P C63 8In	276512
	C	3P+N	1	10	AC400	NB1-63H/2 3P+N C1 8In	276630
	C	3P+N	2	10	AC400	NB1-63H/2 3P+N C2 8In	276631
	C	3P+N	3	10	AC400	NB1-63H/2 3P+N C3 8In	276632
	C	3P+N	4	10	AC400	NB1-63H/2 3P+N C4 8In	276633
	C	3P+N	6	10	AC400	NB1-63H/2 3P+N C6 8In	276634
	C	3P+N	10	10	AC400	NB1-63H/2 3P+N C10 8In	276635
	C	3P+N	16	10	AC400	NB1-63H/2 3P+N C16 8In	276636
	C	3P+N	20	10	AC400	NB1-63H/2 3P+N C20 8In	276637
	C	3P+N	25	10	AC400	NB1-63H/2 3P+N C25 8In	276638
	C	3P+N	32	10	AC400	NB1-63H/2 3P+N C32 8In	276639
	C	3P+N	40	10	AC400	NB1-63H/2 3P+N C40 8In	276640
	C	3P+N	50	10	AC400	NB1-63H/2 3P+N C50 8In	276641
	C	3P+N	63	10	AC400	NB1-63H/2 3P+N C63 8In	276642
	C	3P+N	63	10	AC400	NB1-63H/2 3P+N C63 8In	276642