

Miniature circuit breakers

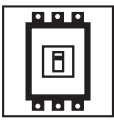
Protection and control of circuits against overloads and short circuits - in commercial and industrial electrical distribution systems



EN 60898-1
NF C 61-410
IEC 60947-2
SANS 60947-2 / SABS 156



Type		MV	MJN	MC				MN			
Poles		1P	1P+N	1P	2P	3P	4P	1P	2P	3P	4P
Normal Current	A	A	A	A				A			
Rated current of release	In (A)	6	2	0.5	1	1	1	6	6	6	6
		10	6	1	2	2	2	10	10	10	10
		16	10	2	3	3	3	16	16	16	16
		20	16	3				20	20	20	20
		25	20					25	25	25	25
		32	25					32	32	32	32
		40	32					40	40	40	40
			40					50	50	50	50
								63	63	63	63
			63								
	100										
	125										
Tripping curve		B	C	C				C			
AC Application	x In	3 - 5 In	5 - 10 In	5 - 10 In				5 - 10 In			
DC Application	x In	4.5 - 7.5 In	7.5 - 15 In	7.5 - 15 In				7.5 - 15 In			
Breaking Capacity											
IEC/EN 60947-2	kA		6kA	10kA				10kA			
IEC/EN 60 898	kA	3kA	4.5kA	6kA				6kA			
Voltage ratings											
Rated operational voltage	Ue (V)	230	230	230/400				230/400			
Rated Insulation voltage	Ui (V)	500V	500V	500V				500V			
Rated Impulse voltage	Uimp (kV)	2500V	2500V	2500V				2500V			
Electrical Endurance											
0.5 - 32A	operations	20000	10000	20000				20000			
40 - 63A	operations	10000	10000					10000			
80 - 125A	operations										
Accessories (Add-On units)											
Auxiliary contact				*				*			
Alarm contact				*				*			
Shunt trip				*				*			
Undervolt release				*				*			
Motor operator				*				*			
Earth leakage module				*				*			
Dimensions											
	mm										
High											
Wide	x 17.5mm	1	1	1	2	3	4	1	2	3	4
Deep											



NCN				HLF				NDN				HMD				NRN						HMC	
1P	2P	3P	4P	1P	2P	3P	4P	1P	2P	3P	4P	1P	2P	3P	4P	1P	1P	1P	3P	3P	3P	1P	3P
A				A				A				A				A						A	
6	6	6	6					6	6	6	6					6			6				
10	10	10	10					10	10	10	10					10			10				
16	16	16	16					16	16	16	16					16			16				
20	20	20	20					20	20	20	20					20			20				
25	25	25	25					25	25	25	25						25			25			
32	32	32	32					32	32	32	32						32			32			
40	40	40	40					40	40	40	40						40			40			
50	50	50	50					50	50	50	50							50			50		
63	63	63	63					63	63	63	63							63			63		
				80	80	80	80					80	80	80	80							80	80
				100	100	100	100					100	100	100	100							100	100
				125	125	125	125					125	125	125	125							125	125
C				C				D				D				C						C	
5 - 10 In				5 - 10 In				5 - 20 In				5 - 20 In				5 - 10 In						5 - 10 In	
7.5 - 15 In				7.5 - 15 In				15 - 30 In				15 - 30 In				7.5 - 15 In						7.5 - 15 In	
15kA				10kA				15kA				15kA				25kA	20kA	15kA	25kA	20kA	15kA	15kA	
10kA				10kA				10kA				15kA				25kA	20kA	15kA	25kA	20kA	15kA	15kA	
230/400				230/400				230/400				230/400				230/400						230/400	
500V				500V				500V				500V				500V						500V	
2500V				2500V				2500V				2500V				2500V						2500V	
20000								20000								20000							
								10000								10000							
				10000								10000										10000	
*				*				*				*				*						*	
*				*				*				*				*						*	
*				*				*				*				*						*	
*				*				*				*				*						*	
*				*				*				*				*						*	
*				*				*				*				*						*	
1	2	3	4	1.5	3	4.5	6	1	2	3	4	1.5	3	4.5	6	1	1	1	3	3	3	1.5	6