

MINIATURE CIRCUIT BREAKERS



UL 489

Miniature Circuit Breakers

UL 489 Product Overview

Features

- Complete range of UL 489 listed miniature circuit breakers up to a 63 A current rating
- Breakers mount on standard 35 mm DIN rail - B1NQ also provides a flush and surface mount options with additional mounting clips
- Standard ratings of 10 kA at 480Y/277 Vac and 10 kA at 125 Vdc
- Suitable for branch circuit device protection
- Trip-free design — breaker cannot be defeated by holding the handle in the ON position
- Captive screws cannot be lost
- For use in applications for which UL 1077 or CSA C22.2 No.235 are also allowed
- Field installable shunt trip and auxiliary switch subsequent mounting
- Available with provisions for ring tongue terminals
- Module width of only 0.71 in (18 mm) per pole
- Contact position indicator (red/green)
- Possibility for locking the toggle in ON or OFF position

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Typical Applications

- Branch Circuit Protection
 - ✓ Convenience receptacle circuits (internal/external)
 - ✓ Motor control circuits
 - ✓ Load circuits leaving the equipment (external)
 - ✓ HVACR equipment: heating, ventilation, air conditioning, refrigeration (internal/external)
 - ✓ PLC I/O points
 - ✓ Power supplies
 - ✓ Control instrumentation
 - ✓ Relays
 - ✓ UPS
 - ✓ Power conditioners

Miniature Circuit Breakers

UL 489 National and International Standards

Certifications

UL 489 File Number E355392 / CSA C22.2 No. 5-16 / IEC 60947-2

• Certified for Canada according to Canadian Standards Association CSA C22.2 No. 5-16 standard for branch circuit protection. • UL 489 file number E355392 standard for connection terminals which allows the user to apply field wiring directly to the breaker. • UL 486 standard for connection terminals which allows the user to apply field wiring directly to the breaker. • IEC 60947-2 standard for industrial applications of circuit protection.	
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RoHS

• These devices are RoHS compliant.	
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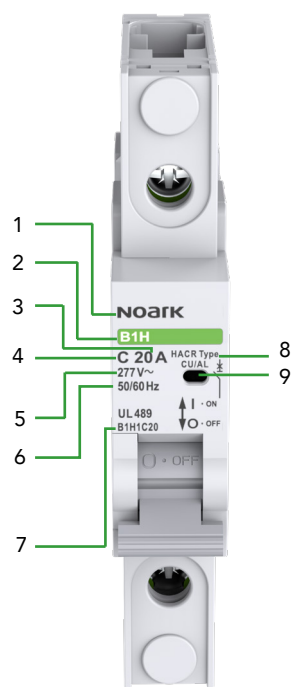
Breakers have UL 486 rated connectors which means the breakers can be wired directly to the load without the need for terminal strips.

Miniature Circuit Breakers

UL 489 Product Selection Guide

Label

These branch circuit breakers are available in two terminal configurations: standard box terminals that accept multiple conductors and ring-tongue terminals. All breakers mount on standard 35 mm DIN rail, while the B1NQ also has flush and surface mounting options with the use of additional mounting clips. Bus connectors and feeder terminal facilitate mounting and wiring of multiple miniature circuit breaker arrays in control panel assemblies. Breakers can also be reverse feed if needed.



- 1. Brand
- 2. Product Type
- 3. Rated Current
- 4. Tripping Curve
- 5. Rated Voltage
- 6. Frequency
- 7. SKU
- 8. Utility Type
- 9. Breaker Status Indicator

Product Selection Guide

B1	N	1	C	20	R
NOARK Ex9 Series - B1	Standard	Pole	Trip Curve	Rated Current	Terminal Option
H: 480Y/277 Vac UL 489 Listed	N: 240 Vac; 60/125 Vdc UL 489 Listed	1: 1 Pole	B: 3~5 In	B1H: 0.5~32 A	Blank: Box Lugs are Standard
NQ: 120/240 Vac (1 & 2 Pole Only) UL 489 Listed	D: 125 Vdc (1P)/250 Vdc (2P) UL 489 Listed	2: 2 Poles	C: 5~10 In 7~15 In (B1D Only)	B1N: 0.5~63 A	R: Ring Tongue Terminal
		3: 3 Poles	D: 10~20 In 12~22 In (B1D Only)	B1NQ: 0.5~63 A	T: Quick Connection Terminal, Load Side (B1NQ 1 & 2 Pole Only)
				B1D: 0.5~63 A	

Miniature Circuit Breakers

B1H UL 489 480Y/277 Vac 10 kA

Certifications

IEC/EN 60947-2

CE

UL

LISTED



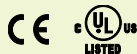
Rated Amperage (A)		1 Pole - 277 Vac		2 Poles - 480Y/277 Vac		3 Poles - 480Y/277 Vac	
		Product	Part Number	Product	Part Number	Product	Part Number
B Curve (3~5 In)	0.5	B1H1B0.5	1000723	B1H2B0.5	1000765	B1H3B0.5	1000807
	1	B1H1B1	1000724	B1H2B1	1000766	B1H3B1	1000808
	1.6	B1H1B1.6	1000725	B1H2B1.6	1000767	B1H3B1.6	1000809
	2	B1H1B2	1000726	B1H2B2	1000768	B1H3B2	1000810
	3	B1H1B3	1000727	B1H2B3	1000769	B1H3B3	1000811
	4	B1H1B4	1000728	B1H2B4	1000770	B1H3B4	1000812
	5	B1H1B5	1000729	B1H2B5	1000771	B1H3B5	1000813
	6	B1H1B6	1000730	B1H2B6	1000772	B1H3B6	1000814
	7	B1H1B7	1002104	B1H2B7	1002107	B1H3B7	1002110
	8	B1H1B8	1000731	B1H2B8	1000773	B1H3B8	1000815
	10	B1H1B10	1000732	B1H2B10	1000774	B1H3B10	1000816
	13	B1H1B13	1000733	B1H2B13	1000775	B1H3B13	1000817
	15	B1H1B15	1000734	B1H2B15	1000776	B1H3B15	1000818
	16	B1H1B16	1000735	B1H2B16	1000777	B1H3B16	1000819
	20	B1H1B20	1000736	B1H2B20	1000778	B1H3B20	1000820
C Curve (5~10 In)	25	B1H1B25	1000975	B1H2B25	1000984	B1H3B25	1000993
	30	B1H1B30	1000976	B1H2B30	1000985	B1H3B30	1000994
	32	B1H1B32	1000977	B1H2B32	1000986	B1H3B32	1000995
	0.5	B1H1C0.5	1000737	B1H2C0.5	1000779	B1H3C0.5	1000821
	1	B1H1C1	1000738	B1H2C1	1000780	B1H3C1	1000822
	1.6	B1H1C1.6	1000739	B1H2C1.6	1000781	B1H3C1.6	1000823
	2	B1H1C2	1000740	B1H2C2	1000782	B1H3C2	1000824
	3	B1H1C3	1000741	B1H2C3	1000783	B1H3C3	1000825
	4	B1H1C4	1000742	B1H2C4	1000784	B1H3C4	1000826
	5	B1H1C5	1000743	B1H2C5	1000785	B1H3C5	1000827
	6	B1H1C6	1000744	B1H2C6	1000786	B1H3C6	1000828
	7	B1H1C7	1002105	B1H2C7	1002108	B1H3C7	1002111
	8	B1H1C8	1000745	B1H2C8	1000787	B1H3C8	1000829
	10	B1H1C10	1000746	B1H2C10	1000788	B1H3C10	1000830
	13	B1H1C13	1000747	B1H2C13	1000789	B1H3C13	1000831
	15	B1H1C15	1000748	B1H2C15	1000790	B1H3C15	1000832
	16	B1H1C16	1000749	B1H2C16	1000791	B1H3C16	1000833
	20	B1H1C20	1000750	B1H2C20	1000792	B1H3C20	1000834
	25	B1H1C25	1000978	B1H2C25	1000987	B1H3C25	1000996
	30	B1H1C30	1000979	B1H2C30	1000988	B1H3C30	1000997
	32	B1H1C32	1000980	B1H2C32	1000989	B1H3C32	1000998

Miniature Circuit Breakers

B1H UL 489 480Y/277 Vac 10 kA

Certifications

IEC/EN 60947-2



Rated Amperage (A)		1 Pole - 277 Vac		2 Poles - 480Y/277 Vac		3 Poles - 480Y/277 Vac	
		Product	Part Number	Product	Part Number	Product	Part Number
D Curve (10~20 In)	0.5	B1H1D0.5	1000751	B1H2D0.5	1000793	B1H3D0.5	1000835
	1	B1H1D1	1000752	B1H2D1	1000794	B1H3D1	1000836
	1.6	B1H1D1.6	1000753	B1H2D1.6	1000795	B1H3D1.6	1000837
	2	B1H1D2	1000754	B1H2D2	1000796	B1H3D2	1000838
	3	B1H1D3	1000755	B1H2D3	1000797	B1H3D3	1000839
	4	B1H1D4	1000756	B1H2D4	1000798	B1H3D4	1000840
	5	B1H1D5	1000757	B1H2D5	1000799	B1H3D5	1000841
	6	B1H1D6	1000758	B1H2D6	1000800	B1H3D6	1000842
	7	B1H1D7	1002106	B1H2D7	1002109	B1H3D7	1002112
	8	B1H1D8	1000759	B1H2D8	1000801	B1H3D8	1000843
	10	B1H1D10	1000760	B1H2D10	1000802	B1H3D10	1000844
	13	B1H1D13	1000761	B1H2D13	1000803	B1H3D13	1000845
	15	B1H1D15	1000762	B1H2D15	1000804	B1H3D15	1000846
	16	B1H1D16	1000763	B1H2D16	1000805	B1H3D16	1000847
	20	B1H1D20	1000764	B1H2D20	1000806	B1H3D20	1000848
	25	B1H1D25	1000981	B1H2D25	1000990	B1H3D25	1000999
	30	B1H1D30	1000982	B1H2D30	1000991	B1H3D30	1001000
	32	B1H1D32	1000983	B1H2D32	1000992	B1H3D32	1001001

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Miniature Circuit Breakers

B1H UL 489 480Y/277 Vac 10 kA - Ring Tongue Terminal

Certifications

IEC/EN 60947-2

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UL

LISTED



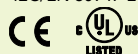
Rated Amperage (A)		1 Pole - 277 Vac		2 Poles - 480Y/277 Vac		3 Poles - 480Y/277 Vac	
		Product	Part Number	Product	Part Number	Product	Part Number
B Curve (3~5 In)	0.5	B1H1B0.5R	1000849	B1H2B0.5R	1000891	B1H3B0.5R	1000933
	1	B1H1B1R	1000850	B1H2B1R	1000892	B1H3B1R	1000934
	1.6	B1H1B1.6R	1000851	B1H2B1.6R	1000893	B1H3B1.6R	1000935
	2	B1H1B2R	1000852	B1H2B2R	1000894	B1H3B2R	1000936
	3	B1H1B3R	1000853	B1H2B3R	1000895	B1H3B3R	1000937
	4	B1H1B4R	1000854	B1H2B4R	1000896	B1H3B4R	1000938
	5	B1H1B5R	1000855	B1H2B5R	1000897	B1H3B5R	1000939
	6	B1H1B6R	1000856	B1H2B6R	1000898	B1H3B6R	1000940
	7	B1H1B7R	1002113	B1H2B7R	1002116	B1H3B7R	1002119
	8	B1H1B8R	1000857	B1H2B8R	1000899	B1H3B8R	1000941
	10	B1H1B10R	1000858	B1H2B10R	1000900	B1H3B10R	1000942
	13	B1H1B13R	1000859	B1H2B13R	1000901	B1H3B13R	1000943
	15	B1H1B15R	1000860	B1H2B15R	1000902	B1H3B15R	1000944
	16	B1H1B16R	1000861	B1H2B16R	1000903	B1H3B16R	1000945
	20	B1H1B20R	1000862	B1H2B20R	1000904	B1H3B20R	1000946
C Curve (5~10 In)	25	B1H1B25R	1001002	B1H2B25R	1001011	B1H2B25R	1001020
	30	B1H1B30R	1001003	B1H2B30R	1001012	B1H2B30R	1001021
	32	B1H1B32R	1001004	B1H2B32R	1001013	B1H2B32R	1001022
	0.5	B1H1C0.5R	1000863	B1H2C0.5R	1000905	B1H3C0.5R	1000947
	1	B1H1C1R	1000864	B1H2C1R	1000906	B1H3C1R	1000948
	1.6	B1H1C1.6R	1000865	B1H2C1.6R	1000907	B1H3C1.6R	1000949
	2	B1H1C2R	1000866	B1H2C2R	1000908	B1H3C2R	1000950
	3	B1H1C3R	1000867	B1H2C3R	1000909	B1H3C3R	1000951
	4	B1H1C4R	1000868	B1H2C4R	1000910	B1H3C4R	1000952
	5	B1H1C5R	1000869	B1H2C5R	1000911	B1H3C5R	1000953
	6	B1H1C6R	1000870	B1H2C6R	1000912	B1H3C6R	1000954
	7	B1H1C7R	1002114	B1H2C7R	1002117	B1H3C7R	1002120
	8	B1H1C8R	1000871	B1H2C8R	1000913	B1H3C8R	1000955
	10	B1H1C10R	1000872	B1H2C10R	1000914	B1H3C10R	1000956
	13	B1H1C13R	1000873	B1H2C13R	1000915	B1H3C13R	1000957
	15	B1H1C15R	1000874	B1H2C15R	1000916	B1H3C15R	1000958
	16	B1H1C16R	1000875	B1H2C16R	1000917	B1H3C16R	1000959
	20	B1H1C20R	1000876	B1H2C20R	1000918	B1H3C20R	1000960
	25	B1H1C25R	1001005	B1H2C25R	1001014	B1H3C25R	1001023
	30	B1H1C30R	1001006	B1H2C30R	1001015	B1H3C30R	1001024
	32	B1H1C32R	1001007	B1H2C32R	1001016	B1H3C32R	1001025

Miniature Circuit Breakers

B1H UL 489 480Y/277 Vac 10 kA - Ring Tongue Terminal

Certifications

IEC/EN 60947-2



Rated Amperage (A)		1 Pole - 277 Vac		2 Poles - 480Y/277 Vac		3 Poles - 480Y/277 Vac	
		Product	Part Number	Product	Part Number	Product	Part Number
D Curve (10~20 In)	0.5	B1H1D0.5R	1000877	B1H2D0.5R	1000919	B1H3D0.5R	1000961
	1	B1H1D1R	1000878	B1H2D1R	1000920	B1H3D1R	1000962
	1.6	B1H1D1.6R	1000879	B1H2D1.6R	1000921	B1H3D1.6R	1000963
	2	B1H1D2R	1000880	B1H2D2R	1000922	B1H3D2R	1000964
	3	B1H1D3R	1000881	B1H2D3R	1000923	B1H3D3R	1000965
	4	B1H1D4R	1000882	B1H2D4R	1000924	B1H3D4R	1000966
	5	B1H1D5R	1000883	B1H2D5R	1000925	B1H3D5R	1000967
	6	B1H1D6R	1000884	B1H2D6R	1000926	B1H3D6R	1000968
	7	B1H1D7R	1002115	B1H2D7R	1002118	B1H3D7R	1002121
	8	B1H1D8R	1000885	B1H2D8R	1000927	B1H3D8R	1000969
	10	B1H1D10R	1000886	B1H2D10R	1000928	B1H3D10R	1000970
	13	B1H1D13R	1000887	B1H2D13R	1000929	B1H3D13R	1000971
	15	B1H1D15R	1000888	B1H2D15R	1000930	B1H3D15R	1000972
	16	B1H1D16R	1000889	B1H2D16R	1000931	B1H3D16R	1000973
	20	B1H1D20R	1000890	B1H2D20R	1000932	B1H3D20R	1000974
	25	B1H1D25R	1001008	B1H2D25R	1001017	B1H3D25R	1002040
	30	B1H1D30R	1001009	B1H2D30R	1001018	B1H3D30R	1002041
	32	B1H1D32R	1001010	B1H2D32R	1001019	B1H3D32R	1002042

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Miniature Circuit Breakers

B1N UL 489 240 Vac; 60/125 Vdc 10 kA



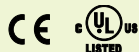
Rated Amperage (A)		1 Pole - 240 Vac / 60 Vdc		2 Poles - 240 Vac / 125 Vdc		3 Poles - 240 Vac	
		Product	Part Number	Product	Part Number	Product	Part Number
B Curve (3~5 In)	0.5	B1N1B0.5	1000000	B1N2B0.5	1000066	B1N3B0.5	1000132
	1	B1N1B1	1000001	B1N2B1	1000067	B1N3B1	1000133
	1.6	B1N1B1.6	1000002	B1N2B1.6	1000068	B1N3B1.6	1000134
	2	B1N1B2	1000003	B1N2B2	1000069	B1N3B2	1000135
	3	B1N1B3	1000004	B1N2B3	1000070	B1N3B3	1000136
	4	B1N1B4	1000005	B1N2B4	1000071	B1N3B4	1000137
	5	B1N1B5	1000006	B1N2B5	1000072	B1N3B5	1000138
	6	B1N1B6	1000007	B1N2B6	1000073	B1N3B6	1000139
	7	B1N1B7	1002122	B1N2B7	1002125	B1N3B7	1002128
	8	B1N1B8	1000008	B1N2B8	1000074	B1N3B8	1000140
	10	B1N1B10	1000009	B1N2B10	1000075	B1N3B10	1000141
	13	B1N1B13	1000010	B1N2B13	1000076	B1N3B13	1000142
	15	B1N1B15	1000011	B1N2B15	1000077	B1N3B15	1000143
	16	B1N1B16	1000012	B1N2B16	1000078	B1N3B16	1000144
	20	B1N1B20	1000013	B1N2B20	1000079	B1N3B20	1000145
	25	B1N1B25	1000014	B1N2B25	1000080	B1N3B25	1000146
	30	B1N1B30	1000015	B1N2B30	1000081	B1N3B30	1000147
C Curve (5~10 In)	32	B1N1B32	1000016	B1N2B32	1000082	B1N3B32	1000148
	35	B1N1B35	1000017	B1N2B35	1000083	B1N3B35	1000149
	40	B1N1B40	1000018	B1N2B40	1000084	B1N3B40	1000150
	50	B1N1B50	1000019	B1N2B50	1000085	B1N3B50	1000151
	60	B1N1B60	1000020	B1N2B60	1000086	B1N3B60	1000152
	63	B1N1B63	1000021	B1N2B63	1000087	B1N3B63	1000153
	0.5	B1N1C0.5	1000022	B1N2C0.5	1000088	B1N3C0.5	1000154
	1	B1N1C1	1000023	B1N2C1	1000089	B1N3C1	1000155
	1.6	B1N1C1.6	1000024	B1N2C1.6	1000090	B1N3C1.6	1000156
	2	B1N1C2	1000025	B1N2C2	1000091	B1N3C2	1000157
	3	B1N1C3	1000026	B1N2C3	1000092	B1N3C3	1000158
	4	B1N1C4	1000027	B1N2C4	1000093	B1N3C4	1000159
	5	B1N1C5	1000028	B1N2C5	1000094	B1N3C5	1000160
	6	B1N1C6	1000029	B1N2C6	1000095	B1N3C6	1000161
	7	B1N1C7	1002123	B1N2C7	1002126	B1N3C7	1002129
	8	B1N1C8	1000030	B1N2C8	1000096	B1N3C8	1000162
	10	B1N1C10	1000031	B1N2C10	1000097	B1N3C10	1000163
	13	B1N1C13	1000032	B1N2C13	1000098	B1N3C13	1000164
	15	B1N1C15	1000033	B1N2C15	1000099	B1N3C15	1000165
	16	B1N1C16	1000034	B1N2C16	1000100	B1N3C16	1000166
	20	B1N1C20	1000035	B1N2C20	1000101	B1N3C20	1000167
	25	B1N1C25	1000036	B1N2C25	1000102	B1N3C25	1000168
	30	B1N1C30	1000037	B1N2C30	1000103	B1N3C30	1000169
	32	B1N1C32	1000038	B1N2C32	1000104	B1N3C32	1000170
	35	B1N1C35	1000039	B1N2C35	1000105	B1N3C35	1000171
	40	B1N1C40	1000040	B1N2C40	1000106	B1N3C40	1000172
	50	B1N1C50	1000041	B1N2C50	1000107	B1N3C50	1000173
	60	B1N1C60	1000042	B1N2C60	1000108	B1N3C60	1000174
	63	B1N1C63	1000043	B1N2C63	1000109	B1N3C63	1000175

Miniature Circuit Breakers

B1N UL 489 240 Vac; 60/125 Vdc 10 kA

Certifications

IEC/EN 60947-2



Rated Amperage (A)		1 Pole - 240 Vac / 60 Vdc		2 Poles - 240 Vac / 125 Vdc		3 Poles - 240 Vac	
		Product	Part Number	Product	Part Number	Product	Part Number
D Curve (10~20 In)	0.5	B1N1D0.5	1000044	B1N2D0.5	1000110	B1N3D0.5	1000176
	1	B1N1D1	1000045	B1N2D1	1000111	B1N3D1	1000177
	1.6	B1N1D1.6	1000046	B1N2D1.6	1000112	B1N3D1.6	1000178
	2	B1N1D2	1000047	B1N2D2	1000113	B1N3D2	1000179
	3	B1N1D3	1000048	B1N2D3	1000114	B1N3D3	1000180
	4	B1N1D4	1000049	B1N2D4	1000115	B1N3D4	1000181
	5	B1N1D5	1000050	B1N2D5	1000116	B1N3D5	1000182
	6	B1N1D6	1000051	B1N2D6	1000117	B1N3D6	1000183
	7	B1N1D7	1002124	B1N2D7	1002127	B1N3D7	1002130
	8	B1N1D8	1000052	B1N2D8	1000118	B1N3D8	1000184
	10	B1N1D10	1000053	B1N2D10	1000119	B1N3D10	1000185
	13	B1N1D13	1000054	B1N2D13	1000120	B1N3D13	1000186
	15	B1N1D15	1000055	B1N2D15	1000121	B1N3D15	1000187
	16	B1N1D16	1000056	B1N2D16	1000122	B1N3D16	1000188
	20	B1N1D20	1000057	B1N2D20	1000123	B1N3D20	1000189
	25	B1N1D25	1000058	B1N2D25	1000124	B1N3D25	1000190
	30	B1N1D30	1000059	B1N2D30	1000125	B1N3D30	1000191
	32	B1N1D32	1000060	B1N2D32	1000126	B1N3D32	1000192
	35	B1N1D35	1000061	B1N2D35	1000127	B1N3D35	1000193
	40	B1N1D40	1000062	B1N2D40	1000128	B1N3D40	1000194
	50	B1N1D50	1000063	B1N2D50	1000129	B1N3D50	1000195
	60	B1N1D60	1000064	B1N2D60	1000130	B1N3D60	1000196
	63	B1N1D63	1000065	B1N2D63	1000131	B1N3D63	1000197

A

Miniature Circuit Breakers

B1N UL 489 240 Vac; 60/125 Vdc 10 kA - Ring Tongue Terminal

Certifications

IEC/EN 60947-2

CE

UL

LISTED



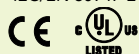
Rated Amperage (A)		1 Pole - 240 Vac / 60 Vdc		2 Poles - 240 Vac / 125 Vdc		3 Poles - 240 Vac	
		Product	Part Number	Product	Part Number	Product	Part Number
B Curve (3~5 In)	0.5	B1N1B0.5R	1000198	B1N2B0.5R	1000255	B1N3B0.5R	1000312
	1	B1N1B1R	1000199	B1N2B1R	1000256	B1N3B1R	1000313
	1.6	B1N1B1.6R	1000200	B1N2B1.6R	1000257	B1N3B1.6R	1000314
	2	B1N1B2R	1000201	B1N2B2R	1000258	B1N3B2R	1000315
	3	B1N1B3R	1000202	B1N2B3R	1000259	B1N3B3R	1000316
	4	B1N1B4R	1000203	B1N2B4R	1000260	B1N3B4R	1000317
	5	B1N1B5R	1000204	B1N2B5R	1000261	B1N3B5R	1000318
	6	B1N1B6R	1000205	B1N2B6R	1000262	B1N3B6R	1000319
	7	B1N1B7R	1002131	B1N2B7R	1002134	B1N3B7R	1002137
	8	B1N1B8R	1000206	B1N2B8R	1000263	B1N3B8R	1000320
	10	B1N1B10R	1000207	B1N2B10R	1000264	B1N3B10R	1000321
	13	B1N1B13R	1000208	B1N2B13R	1000265	B1N3B13R	1000322
	15	B1N1B15R	1000209	B1N2B15R	1000266	B1N3B15R	1000323
	16	B1N1B16R	1000210	B1N2B16R	1000267	B1N3B16R	1000324
	20	B1N1B20R	1000211	B1N2B20R	1000268	B1N3B20R	1000325
	25	B1N1B25R	1000212	B1N2B25R	1000269	B1N3B25R	1000326
	30	B1N1B30R	1000213	B1N2B30R	1000270	B1N3B30R	1000327
C Curve (5~10 In)	32	B1N1B32R	1000214	B1N2B32R	1000271	B1N3B32R	1000328
	35	B1N1B35R	1000215	B1N2B35R	1000272	B1N3B35R	1000329
	40	B1N1B40R	1000216	B1N2B40R	1000273	B1N3B40R	1000330
	0.5	B1N1C0.5R	1000217	B1N2C0.5R	1000274	B1N3C0.5R	1000331
	1	B1N1C1R	1000218	B1N2C1R	1000275	B1N3C1R	1000332
	1.6	B1N1C1.6R	1000219	B1N2C1.6R	1000276	B1N3C1.6R	1000333
	2	B1N1C2R	1000220	B1N2C2R	1000277	B1N3C2R	1000334
	3	B1N1C3R	1000221	B1N2C3R	1000278	B1N3C3R	1000335
	4	B1N1C4R	1000222	B1N2C4R	1000279	B1N3C4R	1000336
	5	B1N1C5R	1000223	B1N2C5R	1000280	B1N3C5R	1000337
	6	B1N1C6R	1000224	B1N2C6R	1000281	B1N3C6R	1000338
	7	B1N1C7R	1002132	B1N2C7R	1002135	B1N3C7R	1002138
	8	B1N1C8R	1000225	B1N2C8R	1000282	B1N3C8R	1000339
	10	B1N1C10R	1000226	B1N2C10R	1000283	B1N3C10R	1000340
	13	B1N1C13R	1000227	B1N2C13R	1000284	B1N3C13R	1000341
	15	B1N1C15R	1000228	B1N2C15R	1000285	B1N3C15R	1000342
	16	B1N1C16R	1000229	B1N2C16R	1000286	B1N3C16R	1000343
	20	B1N1C20R	1000230	B1N2C20R	1000287	B1N3C20R	1000344
	25	B1N1C25R	1000231	B1N2C25R	1000288	B1N3C25R	1000345
	30	B1N1C30R	1000232	B1N2C30R	1000289	B1N3C30R	1000346
	32	B1N1C32R	1000233	B1N2C32R	1000290	B1N3C32R	1000347
	35	B1N1C35R	1000234	B1N2C35R	1000291	B1N3C35R	1000348
	40	B1N1C40R	1000235	B1N2C40R	1000292	B1N3C40R	1000349

Miniature Circuit Breakers

B1N UL 489 240 Vac; 60/125 Vdc 10 kA - Ring Tongue Terminal

Certifications

IEC/EN 60947-2



Rated Amperage (A)		1 Pole - 240 Vac / 60 Vdc		2 Poles - 240 Vac / 125 Vdc		3 Poles - 240 Vac	
		Product	Part Number	Product	Part Number	Product	Part Number
D Curve (10~20 In)	0.5	B1N1D0.5R	1000236	B1N2D0.5R	1000293	B1N3D0.5R	1000350
	1	B1N1D1R	1000237	B1N2D1R	1000294	B1N3D1R	1000351
	1.6	B1N1D1.6R	1000238	B1N2D1.6R	1000295	B1N3D1.6R	1000352
	2	B1N1D2R	1000239	B1N2D2R	1000296	B1N3D2R	1000353
	3	B1N1D3R	1000240	B1N2D3R	1000297	B1N3D3R	1000354
	4	B1N1D4R	1000241	B1N2D4R	1000298	B1N3D4R	1000355
	5	B1N1D5R	1000242	B1N2D5R	1000299	B1N3D5R	1000356
	6	B1N1D6R	1000243	B1N2D6R	1000300	B1N3D6R	1000357
	7	B1N1D7R	1002133	B1N2D7R	1002136	B1N3D7R	1002139
	8	B1N1D8R	1000244	B1N2D8R	1000301	B1N3D8R	1000358
	10	B1N1D10R	1000245	B1N2D10R	1000302	B1N3D10R	1000359
	13	B1N1D13R	1000246	B1N2D13R	1000303	B1N3D13R	1000360
	15	B1N1D15R	1000247	B1N2D15R	1000304	B1N3D15R	1000361
	16	B1N1D16R	1000248	B1N2D16R	1000305	B1N3D16R	1000362
	20	B1N1D20R	1000249	B1N2D20R	1000306	B1N3D20R	1000363
	25	B1N1D25R	1000250	B1N2D25R	1000307	B1N3D25R	1000364
	30	B1N1D30R	1000251	B1N2D30R	1000308	B1N3D30R	1000365
	32	B1N1D32R	1000252	B1N2D32R	1000309	B1N3D32R	1000366
	35	B1N1D35R	1000253	B1N2D35R	1000310	B1N3D35R	1000367
	40	B1N1D40R	1000254	B1N2D40R	1000311	B1N3D40R	1000368

A

Miniature Circuit Breakers

B1NQ UL 489 120/240 Vac 10 kA

Certifications

IEC/EN 60947-2

CE

UL

LISTED



1 Pole



2 Poles

Rated Amperage (A)		1 Pole		2 Poles	
		Product	Part Number	Product	Part Number
B Curve (3~5 In)	0.5	B1NQ1B0.5	1001716	B1NQ2B0.5	1001739
	1	B1NQ1B1	1001717	B1NQ2B1	1001740
	1.6	B1NQ1B1.6	1001718	B1NQ2B1.6	1001741
	2	B1NQ1B2	1001719	B1NQ2B2	1001742
	3	B1NQ1B3	1001720	B1NQ2B3	1001743
	4	B1NQ1B4	1001721	B1NQ2B4	1001744
	5	B1NQ1B5	1001722	B1NQ2B5	1001745
	6	B1NQ1B6	1001723	B1NQ2B6	1001746
	8	B1NQ1B8	1001724	B1NQ2B8	1001747
	10	B1NQ1B10	1001725	B1NQ2B10	1001748
	13	B1NQ1B13	1001726	B1NQ2B13	1001749
	15	B1NQ1B15	1001727	B1NQ2B15	1001750
	16	B1NQ1B16	1001728	B1NQ2B16	1001751
	20	B1NQ1B20	1001729	B1NQ2B20	1001752
	25	B1NQ1B25	1001730	B1NQ2B25	1001753
	30	B1NQ1B30	1001731	B1NQ2B30	1001754
	32	B1NQ1B32	1001732	B1NQ2B32	1001755
	35	B1NQ1B35	1001733	B1NQ2B35	1001756
	40	B1NQ1B40	1001734	B1NQ2B40	1001757
	45	B1NQ1B45	1001735	B1NQ2B45	1001758
	50	B1NQ1B50	1001736	B1NQ2B50	1001759
	60	B1NQ1B60	1001737	B1NQ2B60	1001760
	63	B1NQ1B63	1001738	B1NQ2B63	1001761

*Standard mount is DIN rail. Order FMC31N clips for flush mount; order SMC31N for surface mount.

Miniature Circuit Breakers

B1NQ UL 489 120/240 Vac 10 kA

Certifications

IEC/EN 60947-2



Rated Amperage (A)		1 Pole		2 Poles	
		Product	Part Number	Product	Part Number
C Curve (5~10 In)	0.5	B1NQ1C0.5	1001624	B1NQ2C0.5	1001647
	1	B1NQ1C1	1001625	B1NQ2C1	1001648
	1.6	B1NQ1C1.6	1001626	B1NQ2C1.6	1001649
	2	B1NQ1C2	1001627	B1NQ2C2	1001650
	3	B1NQ1C3	1001628	B1NQ2C3	1001651
	4	B1NQ1C4	1001629	B1NQ2C4	1001652
	5	B1NQ1C5	1001630	B1NQ2C5	1001653
	6	B1NQ1C6	1001631	B1NQ2C6	1001654
	8	B1NQ1C8	1001632	B1NQ2C8	1001655
	10	B1NQ1C10	1001633	B1NQ2C10	1001656
	13	B1NQ1C13	1001634	B1NQ2C13	1001657
	15	B1NQ1C15	1001635	B1NQ2C15	1001658
	16	B1NQ1C16	1001636	B1NQ2C16	1001659
	20	B1NQ1C20	1001637	B1NQ2C20	1001660
	25	B1NQ1C25	1001638	B1NQ2C25	1001661
	30	B1NQ1C30	1001639	B1NQ2C30	1001662
	32	B1NQ1C32	1001640	B1NQ2C32	1001663
	35	B1NQ1C35	1001641	B1NQ2C35	1001664
	40	B1NQ1C40	1001642	B1NQ2C40	1001665
	45	B1NQ1C45	1001643	B1NQ2C45	1001666
	50	B1NQ1C50	1001644	B1NQ2C50	1001667
	60	B1NQ1C60	1001645	B1NQ2C60	1001668
	63	B1NQ1C63	1001646	B1NQ2C63	1001669

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*Standard mount is DIN rail. Order FMC31N clips for flush mount; order SMC31N for surface mount.

Miniature Circuit Breakers

B1NQ UL 489 120/240 Vac 10 kA

Certifications

IEC/EN 60947-2

CE

UL

LISTED



1 Pole



2 Poles

Rated Amperage (A)		1 Pole		2 Poles	
		Product	Part Number	Product	Part Number
D Curve (10~20 In)	0.5	B1NQ1D0.5	1001280	B1NQ2D0.5	1001303
	1	B1NQ1D1	1001281	B1NQ2D1	1001304
	1.6	B1NQ1D1.6	1001282	B1NQ2D1.6	1001305
	2	B1NQ1D2	1001283	B1NQ2D2	1001306
	3	B1NQ1D3	1001284	B1NQ2D3	1001307
	4	B1NQ1D4	1001285	B1NQ2D4	1001308
	5	B1NQ1D5	1001286	B1NQ2D5	1001309
	6	B1NQ1D6	1001287	B1NQ2D6	1001310
	8	B1NQ1D8	1001288	B1NQ2D8	1001311
	10	B1NQ1D10	1001289	B1NQ2D10	1001312
	13	B1NQ1D13	1001290	B1NQ2D13	1001313
	15	B1NQ1D15	1001291	B1NQ2D15	1001314
	16	B1NQ1D16	1001292	B1NQ2D16	1001315
	20	B1NQ1D20	1001293	B1NQ2D20	1001316
	25	B1NQ1D25	1001294	B1NQ2D25	1001317
	30	B1NQ1D30	1001295	B1NQ2D30	1001318
	32	B1NQ1D32	1001296	B1NQ2D32	1001319
	35	B1NQ1D35	1001297	B1NQ2D35	1001320
	40	B1NQ1D40	1001298	B1NQ2D40	1001321
	45	B1NQ1D45	1001299	B1NQ2D45	1001322
	50	B1NQ1D50	1001300	B1NQ2D50	1001323
	60	B1NQ1D60	1001301	B1NQ2D60	1001324
	63	B1NQ1D63	1001302	B1NQ2D63	1001325

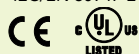
*Standard mount is DIN rail. Order FMC31N clips for flush mount; order SMC31N for surface mount.

Miniature Circuit Breakers

B1NQ UL 489 120/240 Vac 10 kA - Quick Connection, Load Side

Certifications

IEC/EN 60947-2



1 Pole

2 Poles

Rated Amperage (A)		1 Pole		2 Poles	
		Product	Part Number	Product	Part Number
B Curve (3~5 In)	0.5	B1NQ1B0.5T	1001762	B1NQ2B0.5T	1001785
	1	B1NQ1B1T	1001763	B1NQ2B1T	1001786
	1.6	B1NQ1B1.6T	1001764	B1NQ2B1.6T	1001787
	2	B1NQ1B2T	1001765	B1NQ2B2T	1001788
	3	B1NQ1B3T	1001766	B1NQ2B3T	1001789
	4	B1NQ1B4T	1001767	B1NQ2B4T	1001790
	5	B1NQ1B5T	1001768	B1NQ2B5T	1001791
	6	B1NQ1B6T	1001769	B1NQ2B6T	1001792
	8	B1NQ1B8T	1001770	B1NQ2B8T	1001793
	10	B1NQ1B10T	1001771	B1NQ2B10T	1001794
	13	B1NQ1B13T	1001772	B1NQ2B13T	1001795
	15	B1NQ1B15T	1001773	B1NQ2B15T	1001796
	16	B1NQ1B16T	1001774	B1NQ2B16T	1001797
	20	B1NQ1B20T	1001775	B1NQ2B20T	1001798
	25	B1NQ1B25T	1001776	B1NQ2B25T	1001799
	30	B1NQ1B30T	1001777	B1NQ2B30T	1001800
	32	B1NQ1B32T	1001778	B1NQ2B32T	1001801
	35	B1NQ1B35T	1001779	B1NQ2B35T	1001802
	40	B1NQ1B40T	1001780	B1NQ2B40T	1001803
	45	B1NQ1B45T	1001781	B1NQ2B45T	1001804
	50	B1NQ1B50T	1001782	B1NQ2B50T	1001805
	60	B1NQ1B60T	1001783	B1NQ2B60T	1001806
	63	B1NQ1B63T	1001784	B1NQ2B63T	1001807

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*Standard mount is DIN rail. Order FMC31N clips for flush mount; order SMC31N for surface mount.

Miniature Circuit Breakers

B1NQ UL 489 120/240 Vac 10 kA - Quick Connection, Load Side

Certifications

IEC/EN 60947-2

CE

UL

LISTED



1 Pole



2 Poles

Rated Amperage (A)		1 Pole		2 Poles	
		Product	Part Number	Product	Part Number
C Curve (5~10 In)	0.5	B1NQ1C0.5T	1001670	B1NQ2C0.5T	1001693
	1	B1NQ1C1T	1001671	B1NQ2C1T	1001694
	1.6	B1NQ1C1.6T	1001672	B1NQ2C1.6T	1001695
	2	B1NQ1C2T	1001673	B1NQ2C2T	1001696
	3	B1NQ1C3T	1001674	B1NQ2C3T	1001697
	4	B1NQ1C4T	1001675	B1NQ2C4T	1001698
	5	B1NQ1C5T	1001676	B1NQ2C5T	1001699
	6	B1NQ1C6T	1001677	B1NQ2C6T	1001700
	8	B1NQ1C8T	1001678	B1NQ2C8T	1001701
	10	B1NQ1C10T	1001679	B1NQ2C10T	1001702
	13	B1NQ1C13T	1001680	B1NQ2C13T	1001703
	15	B1NQ1C15T	1001681	B1NQ2C15T	1001704
	16	B1NQ1C16T	1001682	B1NQ2C16T	1001705
	20	B1NQ1C20T	1001683	B1NQ2C20T	1001706
	25	B1NQ1C25T	1001684	B1NQ2C25T	1001707
	30	B1NQ1C30T	1001685	B1NQ2C30T	1001708
	32	B1NQ1C32T	1001686	B1NQ2C32T	1001709
	35	B1NQ1C35T	1001687	B1NQ2C35T	1001710
	40	B1NQ1C40T	1001688	B1NQ2C40T	1001711
	45	B1NQ1C45T	1001689	B1NQ2C45T	1001712
	50	B1NQ1C50T	1001690	B1NQ2C50T	1001713
	60	B1NQ1C60T	1001691	B1NQ2C60T	1001714
	63	B1NQ1C63T	1001692	B1NQ2C63T	1001715

*Standard mount is DIN rail. Order FMC31N clips for flush mount; order SMC31N for surface mount.

Miniature Circuit Breakers

B1NQ UL 489 120/240 Vac 10 kA - Quick Connection, Load Side

Certifications

IEC/EN 60947-2



1 Pole



2 Poles

Rated Amperage (A)		1 Pole		2 Poles	
		Product	Part Number	Product	Part Number
D Curve (10~20 In)	0.5	B1NQ1D0.5T	1001326	B1NQ2D0.5T	1001349
	1	B1NQ1D1T	1001327	B1NQ2D1T	1001350
	1.6	B1NQ1D1.6T	1001328	B1NQ2D1.6T	1001351
	2	B1NQ1D2T	1001329	B1NQ2D2T	1001352
	3	B1NQ1D3T	1001330	B1NQ2D3T	1001353
	4	B1NQ1D4T	1001331	B1NQ2D4T	1001354
	5	B1NQ1D5T	1001332	B1NQ2D5T	1001355
	6	B1NQ1D6T	1001333	B1NQ2D6T	1001356
	8	B1NQ1D8T	1001334	B1NQ2D8T	1001357
	10	B1NQ1D10T	1001335	B1NQ2D10T	1001358
	13	B1NQ1D13T	1001336	B1NQ2D13T	1001359
	15	B1NQ1D15T	1001337	B1NQ2D15T	1001360
	16	B1NQ1D16T	1001338	B1NQ2D16T	1001361
	20	B1NQ1D20T	1001339	B1NQ2D20T	1001362
	25	B1NQ1D25T	1001340	B1NQ2D25T	1001363
	30	B1NQ1D30T	1001341	B1NQ2D30T	1001364
	32	B1NQ1D32T	1001342	B1NQ2D32T	1001365
	35	B1NQ1D35T	1001343	B1NQ2D35T	1001366
	40	B1NQ1D40T	1001344	B1NQ2D40T	1001367
	45	B1NQ1D45T	1001345	B1NQ2D45T	1001368
	50	B1NQ1D50T	1001346	B1NQ2D50T	1001369
	60	B1NQ1D60T	1001347	B1NQ2D60T	1001370
	63	B1NQ1D63T	1001348	B1NQ2D63T	1001371

A

*Standard mount is DIN rail. Order FMC31N clips for flush mount; order SMC31N for surface mount.

Miniature Circuit Breakers

B1D UL 489 125/250 Vdc 10 kA - Box Lugs

Certifications

IEC/EN 60947-2

CE

UL

US

LISTED



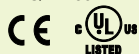
Rated Amperage (A)		1 Pole		2 Poles	
		Product	Part Number	Product	Part Number
C Curve (7~15 In)	0.5	B1D1C0.5	1002365	B1D2C0.5	1002411
	1	B1D1C1	1002366	B1D2C1	1002412
	1.6	B1D1C1.6	1002367	B1D2C1.6	1002413
	2	B1D1C2	1002368	B1D2C2	1002414
	3	B1D1C3	1002369	B1D2C3	1002415
	4	B1D1C4	1002370	B1D2C4	1002416
	5	B1D1C5	1002371	B1D2C5	1002417
	6	B1D1C6	1002372	B1D2C6	1002418
	7	B1D1C7	1002373	B1D2C7	1002419
	8	B1D1C8	1002374	B1D2C8	1002420
	10	B1D1C10	1002375	B1D2C10	1002421
	13	B1D1C13	1002376	B1D2C13	1002422
	15	B1D1C15	1002377	B1D2C15	1002423
	16	B1D1C16	1002378	B1D2C16	1002424
	20	B1D1C20	1002379	B1D2C20	1002425
	25	B1D1C25	1002380	B1D2C25	1002426
	30	B1D1C30	1002381	B1D2C30	1002427
	32	B1D1C32	1002382	B1D2C32	1002428
	35	B1D1C35	1002383	B1D2C35	1002429
	40	B1D1C40	1002384	B1D2C40	1002430
	50	B1D1C50	1002385	B1D2C50	1002431
	60	B1D1C60	1002386	B1D2C60	1002432
	63	B1D1C63	1002387	B1D2C63	1002433

Miniature Circuit Breakers

B1D UL 489 125/250 Vdc 10 kA - Box Lugs

Certifications

IEC/EN 60947-2



Rated Amperage (A)		1 Pole		2 Poles	
		Product	Part Number	Product	Part Number
D Curve (12~22 In)	0.5	B1D1D0.5	1002388	B1D2D0.5	1002434
	1	B1D1D1	1002389	B1D2D1	1002435
	1.6	B1D1D1.6	1002390	B1D2D1.6	1002436
	2	B1D1D2	1002391	B1D2D2	1002437
	3	B1D1D3	1002392	B1D2D3	1002438
	4	B1D1D4	1002393	B1D2D4	1002439
	5	B1D1D5	1002394	B1D2D5	1002440
	6	B1D1D6	1002395	B1D2D6	1002441
	7	B1D1D7	1002396	B1D2D7	1002442
	8	B1D1D8	1002397	B1D2D8	1002443
	10	B1D1D10	1002398	B1D2D10	1002444
	13	B1D1D13	1002399	B1D2D13	1002445
	15	B1D1D15	1002400	B1D2D15	1002446
	16	B1D1D16	1002401	B1D2D16	1002447
	20	B1D1D20	1002402	B1D2D20	1002448
	25	B1D1D25	1002403	B1D2D25	1002449
	30	B1D1D30	1002404	B1D2D30	1002450
	32	B1D1D32	1002405	B1D2D32	1002451
	35	B1D1D35	1002406	B1D2D35	1002452
	40	B1D1D40	1002407	B1D2D40	1002453
	50	B1D1D50	1002408	B1D2D50	1002454
	60	B1D1D60	1002409	B1D2D60	1002455
	63	B1D1D63	1002410	B1D2D63	1002456

A

Miniature Circuit Breakers

B1D UL 489 125/250 Vac 10 kA - Ring Tongue Terminal

Certifications

IEC/EN 60947-2

CE

UL

US

LISTED



Rated Amperage (A)		1 Pole		2 Poles	
		Product	Part Number	Product	Part Number
C Curve (7 ~15 In)	0.5	B1D1C0.5R	1002457	B1D2C0.5R	1002497
	1	B1D1C1R	1002458	B1D2C1R	1002498
	1.6	B1D1C1.6R	1002459	B1D2C1.6R	1002499
	2	B1D1C2R	1002460	B1D2C2R	1002500
	3	B1D1C3R	1002461	B1D2C3R	1002501
	4	B1D1C4R	1002462	B1D2C4R	1002502
	5	B1D1C5R	1002463	B1D2C5R	1002503
	6	B1D1C6R	1002464	B1D2C6R	1002504
	7	B1D1C7R	1002465	B1D2C7R	1002505
	8	B1D1C8R	1002466	B1D2C8R	1002506
	10	B1D1C10R	1002467	B1D2C10R	1002507
	13	B1D1C13R	1002468	B1D2C13R	1002508
	15	B1D1C15R	1002469	B1D2C15R	1002509
	16	B1D1C16R	1002470	B1D2C16R	1002510
	20	B1D1C20R	1002471	B1D2C20R	1002511
	25	B1D1C25R	1002472	B1D2C25R	1002512
	30	B1D1C30R	1002473	B1D2C30R	1002513
	32	B1D1C32R	1002474	B1D2C32R	1002514
	35	B1D1C35R	1002475	B1D2C35R	1002515
	40	B1D1C40R	1002476	B1D2C40R	1002516

Miniature Circuit Breakers

B1D UL 489 125/250 Vac 10 kA - Ring Tongue Terminal

Certifications

IEC/EN 60947-2



1 Pole



2 Poles

Rated Amperage (A)		Product		Part Number	Product		Part Number
D Curve (12~22 In)	0.5	B1D1D0.5R		1002477	B1D2D0.5R		1002517
	1	B1D1D1R		1002478	B1D2D1R		1002518
	1.6	B1D1D1.6R		1002479	B1D2D1.6R		1002519
	2	B1D1D2R		1002480	B1D2D2R		1002520
	3	B1D1D3R		1002481	B1D2D3R		1002521
	4	B1D1D4R		1002482	B1D2D4R		1002522
	5	B1D1D5R		1002483	B1D2D5R		1002523
	6	B1D1D6R		1002484	B1D2D6R		1002524
	7	B1D1D7R		1002485	B1D2D7R		1002525
	8	B1D1D8R		1002486	B1D2D8R		1002526
	10	B1D1D10R		1002487	B1D2D10R		1002527
	13	B1D1D13R		1002488	B1D2D13R		1002528
	15	B1D1D15R		1002489	B1D2D15R		1002529
	16	B1D1D16R		1002490	B1D2D16R		1002530
	20	B1D1D20R		1002491	B1D2D20R		1002531
	25	B1D1D25R		1002492	B1D2D25R		1002532
	30	B1D1D30R		1002493	B1D2D30R		1002533
	32	B1D1D32R		1002494	B1D2D32R		1002534
	35	B1D1D35R		1002495	B1D2D35R		1002535
	40	B1D1D40R		1002496	B1D2D40R		1002536

A

Miniature Circuit Breakers

UL 489 Specifications

	B1H			B1N			B1NQ		B1D	
Conformed Standard	UL 489									
Number of Poles	1	2	3	1	2	3	1	2	1	2
Rated Operational Voltage (V)	480Y/277 Vac			240 Vac 60 Vdc	240 Vac 125 Vdc	240 Vac	120/240 Vac		125 Vdc	250 Vdc
Rated Frequency (Hz)	50/60								-	
Rated Current (A)	0.5~32			0.5~63						
Instantaneous Tripping Type	B (3~5 In), C (5~10 In), D (10~20 In)								C (7~15 In), D (12~22 In)	
Interrupting (kA)	120 Vac	-		10	-		10		-	
	240 Vac	10		10			10			
	277 Vac									
	480Y/277 Vac	-								
	60 Vdc	-		10	10		-			
	125 Vdc			-					10	
	250 Vdc							-		10
Inverse Time-Delay Over-Current Release Type	Thermal-Magnetic									
Operations	Electrical	10,000					6,000			
	Mechanical	20,000					10,000			
Protection Degree	IP 20									
Wire AWG (mm ²)	Single Wire	18~4 (0.75~25)								
	Two Wires	18~6 (0.75~16 / 14~10 (2.5~6)								
Operating Temperature Range	-22 °F to 167 °F (-30 °C to +75 °C)									
Insulation Coordination	Rated Insulation Voltage (Vac)	500								
	Rated Impulse Withstand Voltage (kV)	6								
Pollution Degree	Class III									
Over Voltage Category	Class III									
Mounting	35 mm DIN rail / Flush and surface mount available on B1NQ with the use of additional mounting clips									
Altitude ft (m)	Does not exceed 6,561 (2,000)									
Atmospheric Conditions	At 68 °F (+20°C), the relative humidity does not exceed 90% At 104 °F (+40°C), the relative humidity does not exceed 50%									

Miniature Circuit Breakers

CE Specifications

		B1H			B1N			B1NQ		B1D		
Conformed Standard		IEC60947-2										
Number of Poles		1P	2P	3P	1P	2P	3P	1P	2P	1P	2P	
Rated Operational Voltage (V)		AC240	AC415		AC240 /DC60		AC415 /DC125		AC240	AC415	DC125	DC250
Rated Frequency (Hz)		50/60								-		
Rated Current (A)		0.5~32			0.5~63							
Instantaneous Tripping Type		B (3~5 In), C (5~10 In), D (10~20 In)								C (7~15 In), D (12~22 In)		
Ics (kA)	240VAC	7.5	-		7.5	-		7.5	-	-	-	
	415VAC	-	7.5	7.5	-	7.5	7.5	-	7.5			
	60VDC		-		7.5	-			-			-
	125VDC				-	7.5	7.5					7.5
	250VDC					-						-
Icu (kA)	240VAC	10	-		10	-	-	10		-	-	-
	415VAC	-	10	10	-	10	10	-	10			
	60VDC		-		10	-			-	-		
	125VDC				-	10	10			10		
	250VDC					-				-		
Inverse Time-Delay Over-Current Release Type		Thermal-Magnetic										
Operations	Electrical	10,000						6,000				
	Mechanical	20,000						10,000				
Protection Degree		IP 30 (except for terminals)										
Wire AWG (mm2)		18~4 (0.75~25)										
Operating Temperature Range		-22 °F to 167 °F (-30 °C to +75 °C)										
Insulation Coordination	Rated Insulation Voltage (Vac)	500										
	Rated Impulse Withstand Voltage (kV)	6										
Pollution Degree		Class III										
Over Voltage Category		Class III										
Mounting		35 mm DIN rail/Flush and surface mount available on B1NQ with the use of additional mounting clips										
Altitude ft (m)		Does not exceed 6,561 (2,000)										
Atmospheric Conditions		At 68 °F (+20°C), the relative humidity does not exceed 90%										
		At 104 °F (+40°C), the relative humidity does not exceed 50%										

A

Miniature Circuit Breakers

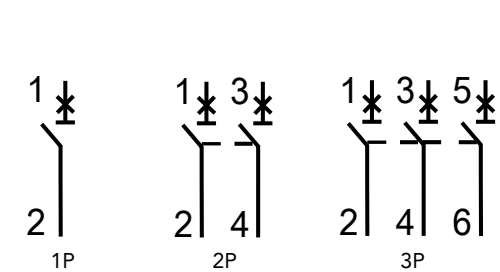
UL 489 Specifications and Wiring Diagram

Temperature De-rating																						
When the ambient temperature slightly changes, please refer to the table below for the Temperature Compensation Coefficient																						
Ambient Temperature °F (°C)	-22 (-30)	-13 (-25)	-4 (-20)	5 (-15)	14 (-10)	23 (-5)	32 (0)	41 (5)	50 (10)	59 (15)	68 (20)	77 (25)	86 (30)	95 (35)	104 (40)	113 (45)	122 (50)	131 (55)	140 (60)	149 (65)	158 (70)	167 (75)
0.5	1.26	1.24	1.22	1.20	1.18	1.16	1.14	1.10	1.08	1.06	1.04	1.00										
1	1.21	1.19	1.18	1.16	1.14	1.12	1.10	1.08	1.06	1.04	1.02											
1.6	1.32	1.29	1.28	1.24	1.21	1.19	1.16	1.13	1.10	1.08	1.03											
2	1.21	1.19	1.18	1.16	1.14	1.12	1.10	1.08	1.06	1.04	1.02											
3	1.27	1.25	1.22	1.20	1.18	1.15	1.13	1.11	1.08	1.05	1.03											
4	1.25	1.23	1.21	1.19	1.17		1.12	1.10	1.07													
5	1.26	1.24	1.22				1.13		1.08													
6	1.23	1.21	1.19	1.17	1.15	1.13	1.11	1.09	1.07	1.05	1.02											
7	1.25	1.23	1.21	1.19	1.17	1.15	1.13	1.1	1.05		1.03											
8	1.29	1.26	1.24	1.22	1.19	1.17	1.14	1.11	1.09	1.06	1.03											
10	1.28	1.25	1.23	1.21	1.18	1.16	1.13		1.08													
13	1.20	1.18	1.16	1.15	1.13	1.11	1.09	1.08	1.06	1.04	1.02											
15	1.28	1.25	1.23	1.21	1.18	1.16	1.13	1.11	1.08	1.06	1.03											
16	1.24	1.22	1.20	1.18	1.16	1.14	1.11	1.09	1.07	1.05	1.02											
20	1.23	1.21	1.19	1.17	1.15	1.13																
25	1.24	1.22	1.20	1.18	1.16	1.14	1.15	1.12	1.09	1.06	1.03											
30	1.30	1.27	1.25	1.22	1.20	1.17																
32	1.23	1.21	1.19	1.17	1.15	1.13	1.11	1.09	1.07	1.04	1.02											
35	1.31	1.29	1.26	1.23	1.21	1.18	1.15	1.12	1.09	1.06	1.03											
40	1.23	1.21	1.19	1.17	1.15	1.13	1.11	1.09	1.07	1.05	1.02											
45																						
50																						
60	1.29	1.27	1.24	1.22	1.19	1.17	1.14	1.11	1.09	1.06	1.03											
63	1.27	1.25	1.22	1.20	1.18	1.15	1.13		1.08	1.05	0.87											

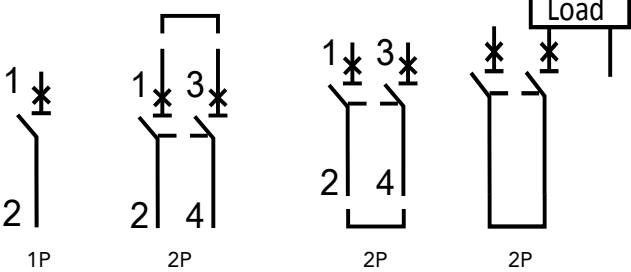
Elevation De-rating (B1H/B1N/B1NQ/B1D)				
Breaker elevation de-rating with dielectric strength above 6,561 ft (2,000 m)				
Elevation ft (m)	6,561 (2,000)		9,842 (3,000)	13,123 (4,000)
Dielectric Strength (V)	3,000		2,500	2,000
Max Working Voltage Per Pole (V)	277 Vac / 60 Vdc			
Rated Amperes at 77 °F (25 °C) (A)	1 x In		0.95 x In	0.93 x In

Wiring Diagram

AC Connection



DC Connection

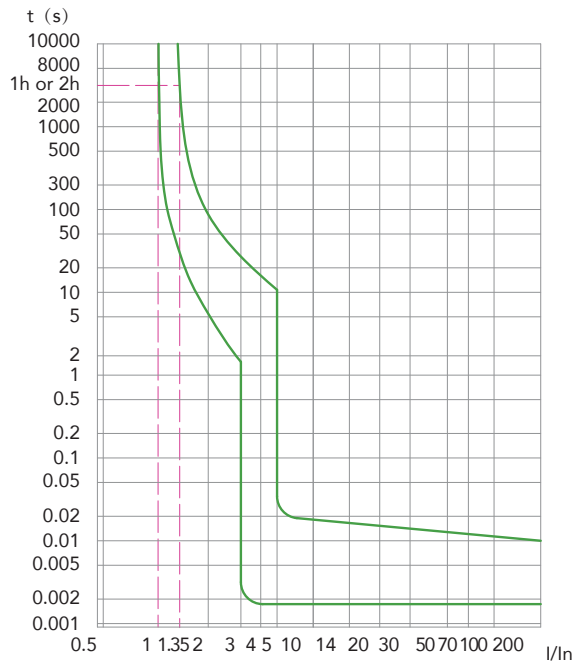


Miniature Circuit Breakers

UL 489 Trip Curve

B Curve

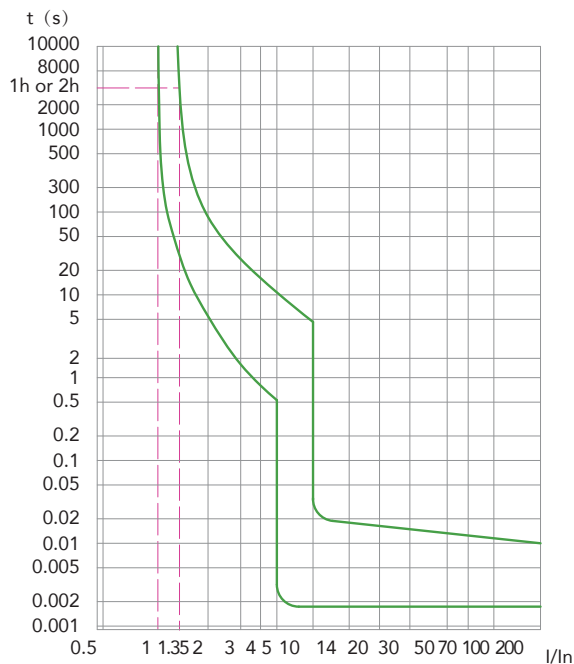
(B1H/B1N/B1NQ)
(3~5 I_n)



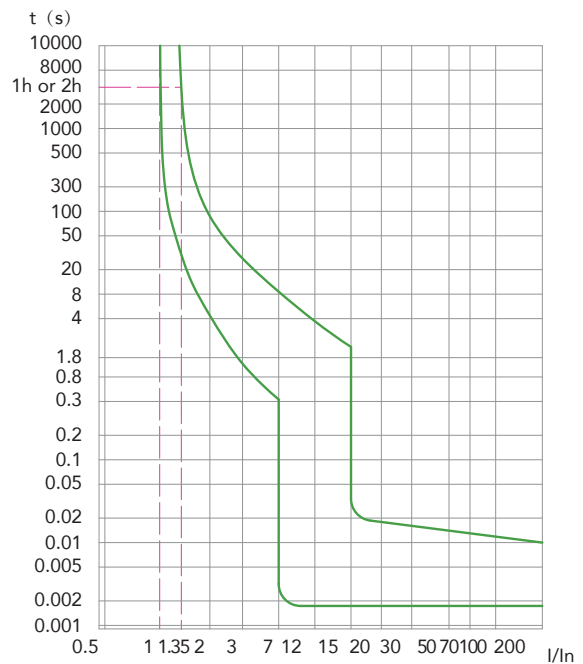
A

C Curve

(B1H/B1N/B1NQ)
(5~10 I_n)



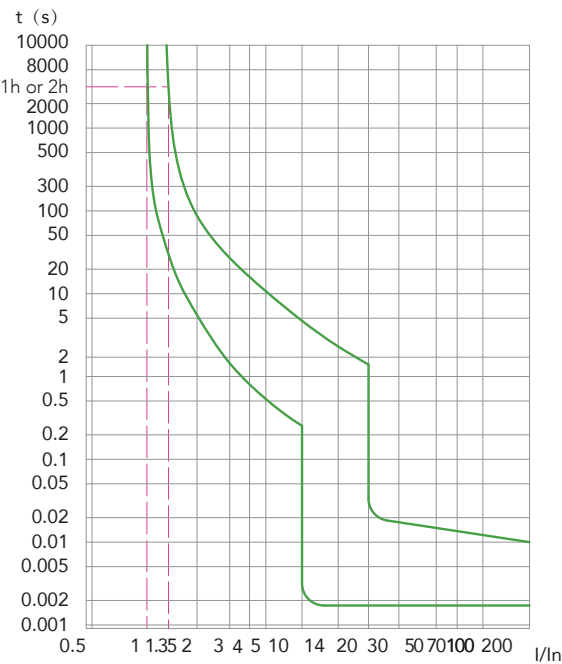
(B1D)
(7~15 I_n)



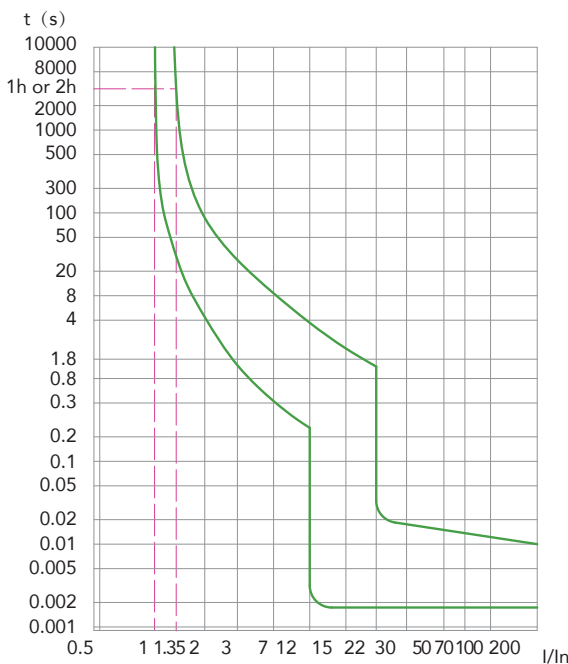
Miniature Circuit Breakers

UL 489 Trip Curve / UL 489 Dimensions

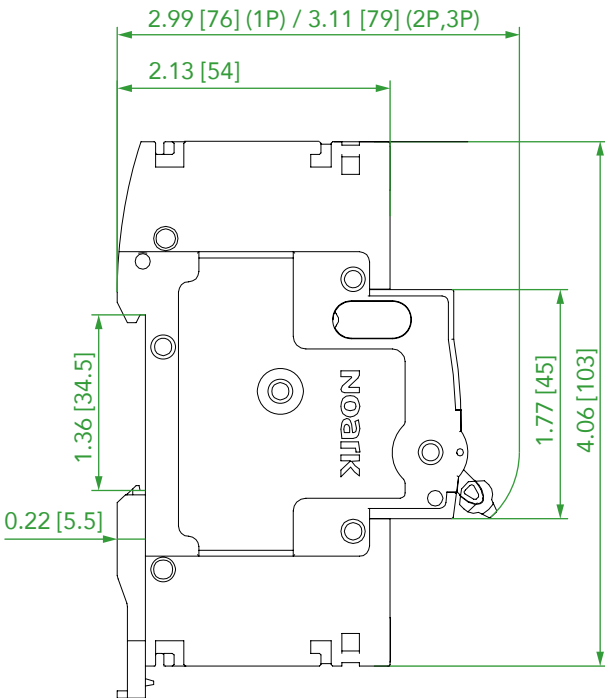
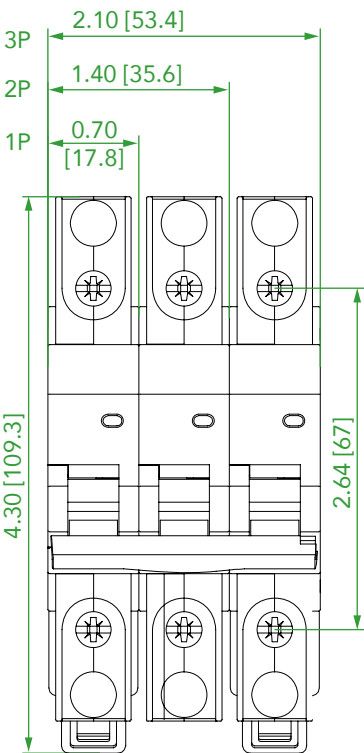
D Curve
(B1H/B1N/B1NQ)
(10~20 In)



(B1D)
(12~22 In)



B1H/N/D
1P/2P/3P
Unit: in [mm]



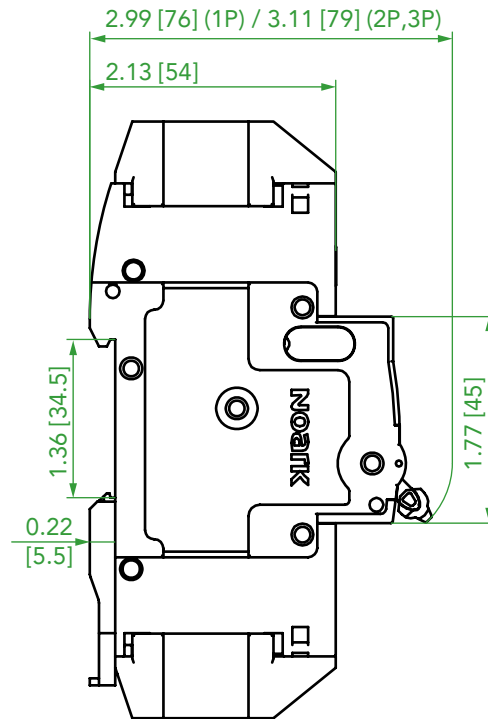
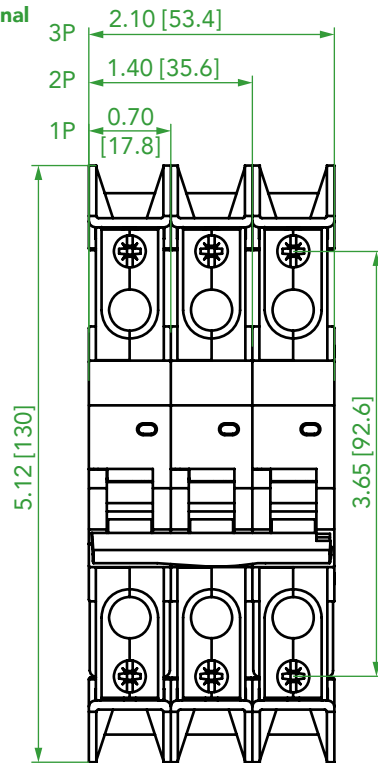
Miniature Circuit Breakers

UL 489 Dimensions

B1H/N/D

with Ring Tongue Terminal
1P/2P/3P

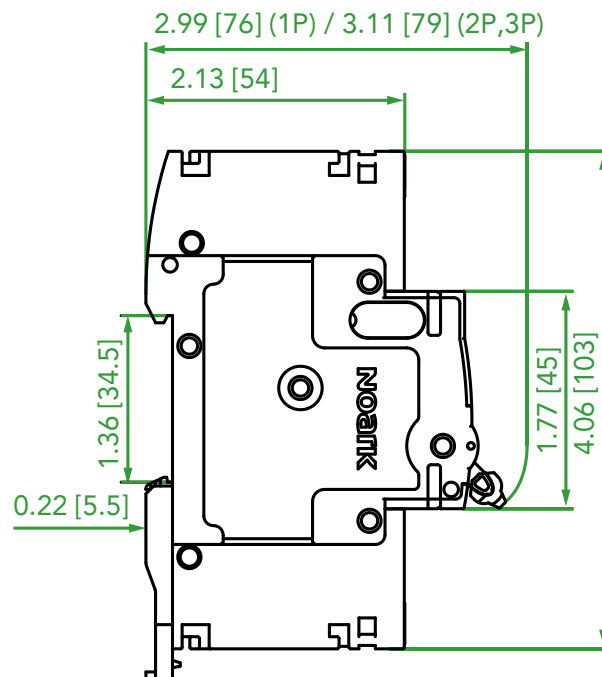
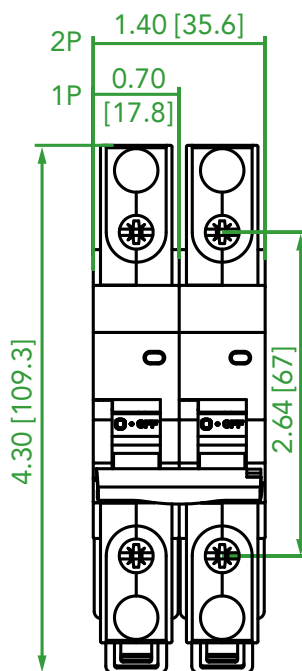
Unit: in [mm]



B1NQ

1P/2P

Unit: in [mm]

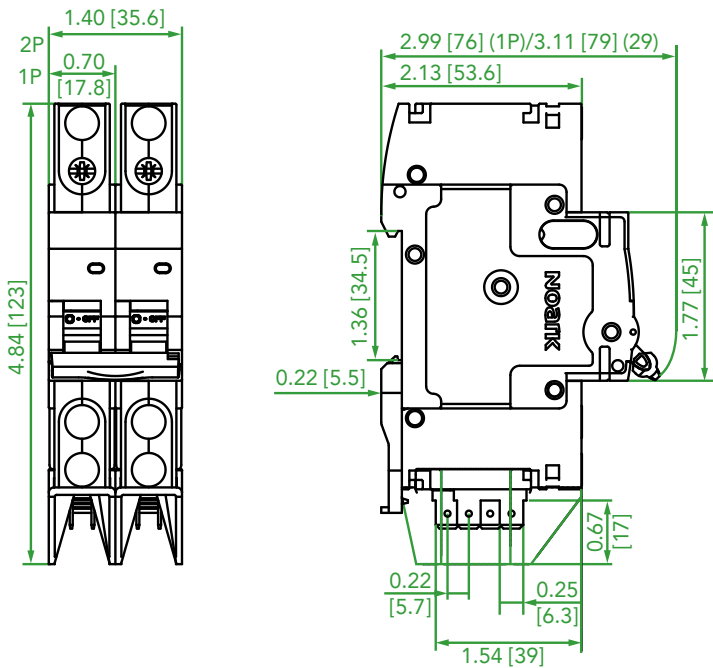


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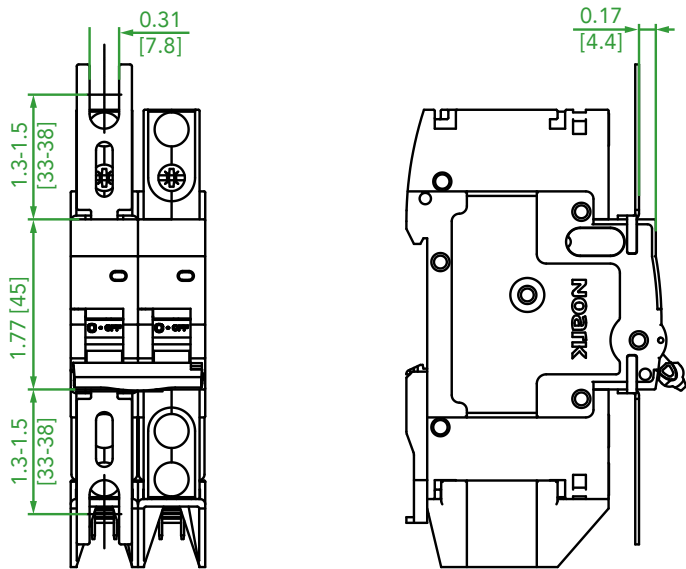
Miniature Circuit Breakers

UL 489 Dimensions

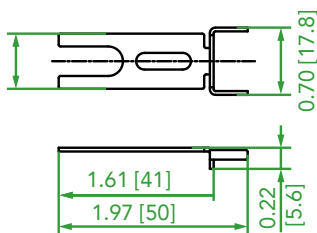
B1NQ
with Quick Connection Terminal
1P/2P
Unit: in [mm]



B1NQ
with Flush Mount Clips
1P/2P
Unit: in [mm]



B1NQ
Flush Mount Clips
1P/2P
Unit: in [mm]



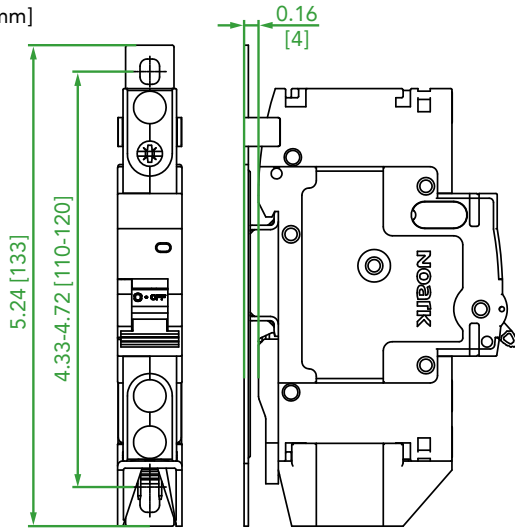
Miniature Circuit Breakers

UL 489 Dimensions

B1NQ

with Surface Mount Clip
1P

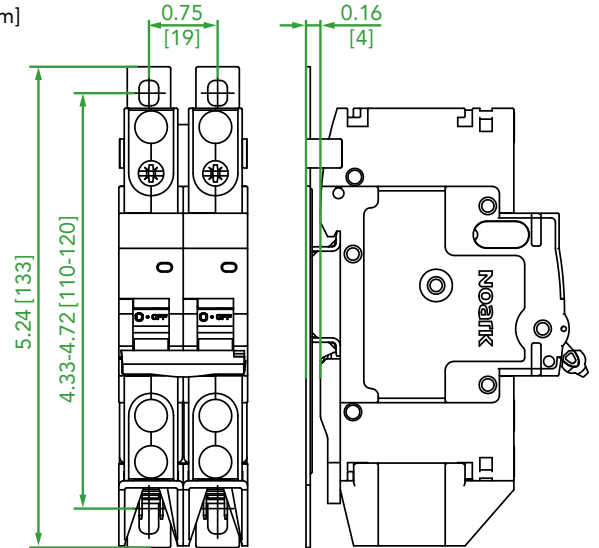
Unit: in [mm]



B1NQ

with Surface Mount Clip
2P

Unit: in [mm]

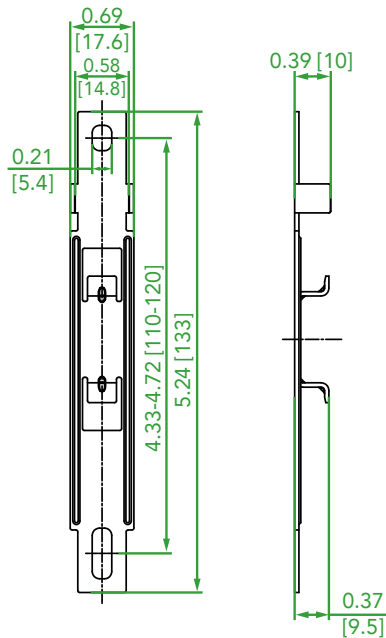


A

B1NQ

Surface Mount Clip
1P

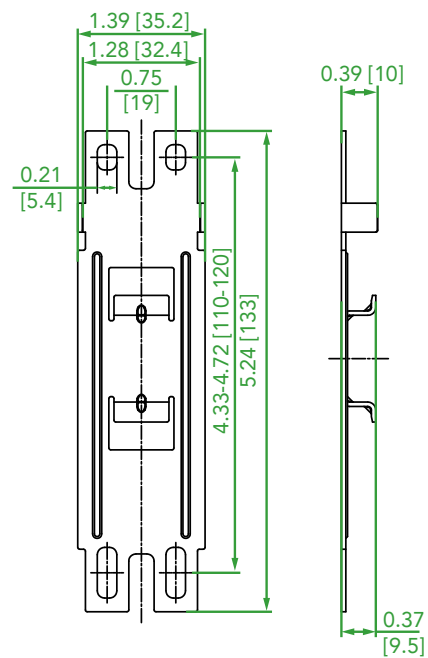
Unit: in [mm]



B1NQ

Surface Mount Clip
2P

Unit: in [mm]



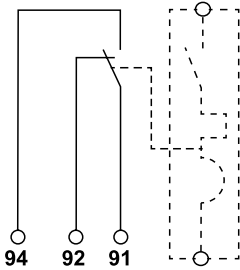
Miniature Circuit Breakers

UL 489 Accessories: Alarm Switch, Aux Contact, Shunt



AL31	11	N
Description	Auxiliary Contact	Device Category
Alarm Switch	11: 1NO+1NC	N: UL 489

Accessory Description	Product	Part Number
Alarm Switch	AL3111N	1001201

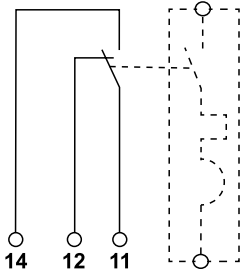


Specifications A37
Dimensions..... A38



AX31	11	N
Description	Auxiliary Contact	Device Category
Auxiliary Contact	11: 1NO+1NC	N: UL 489

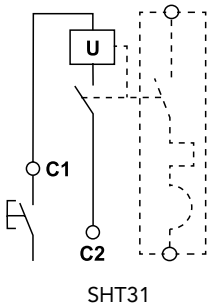
Accessory Description	Product	Part Number
Auxiliary Contact	AX3111N	1001200



Specifications A37
Dimensions..... A38

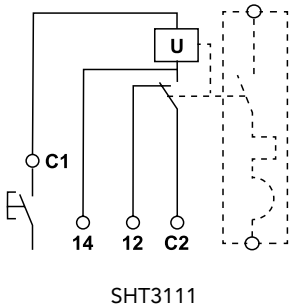


SHT31	11	N	A
Description	Auxiliary Contact	Device Category	Rated Voltage
Shunt Trip	11: 1NO+1NC	N: UL 489	A: 110~415 Vac, 110~130 Vdc
	Blank: No Auxiliary Contact		B: 48 Vac/dc
			C: 12~24 Vac/dc
			D: 6~12 Vac/dc



Specifications A37
Dimensions..... A39

Accessory Description	Product	Part Number
Shunt Trip	1NO+1NC 110-415 Vac/110-130 Vdc	SHT3111NA 1001208
	1NO+1NC 48-60 Vac/dc	SHT3111NB 1001209
	1NO+1NC 12-24 Vac/dc	SHT3111NC 1001210
	1NO+1NC 6-12 Vac/dc	SHT3111ND 1002614
	110-415 Vac/110-130 Vdc	SHT31NA 1001211
	48-60 Vac/dc	SHT31NB 1001212
	12-24 Vac/dc	SHT31NC 1001213
	6-12 Vac/dc	SHT31ND 1002613

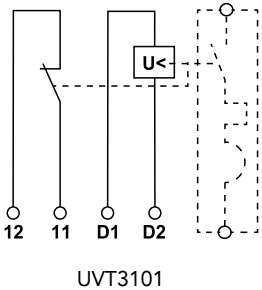


Miniature Circuit Breakers

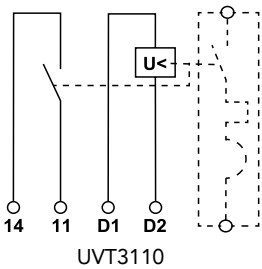
UL 489 Accessories: Under-Voltage Trip and DIN Rail



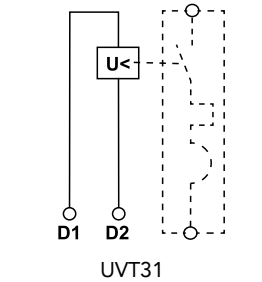
UVT31	01	N	A
Description	Auxiliary Contact	Device Category	Rated Voltage
Under-Voltage Trip	01: 1NC 10: 1NO Blank: No Auxiliary Contact	N: UL 489	A: 240 Vac B: 48 Vac/dc C: 120 Vac



UVT3101



UVT3110



UVT31

A

Specifications A37
Dimensions..... A39

Accessory Description		Product	Part Number
Under-Voltage Trip	1NC / 240 Vac	UVT3101NA	1001202
	1NC / 48 Vac/dc	UVT3101NB	1001203
	1NC / 120 Vac	UVT3101NC	1002575
	1NO / 240 Vac	UVT3110NA	1001204
	1NO / 48 Vac/dc	UVT3110NB	1001205
	1NO / 120 Vac	UVT3110NC	1002576
	240 Vac	UVT31NA	1001206
	48 Vac/dc	UVT31NB	1001207
	120 Vac	UVT31NC	1002577



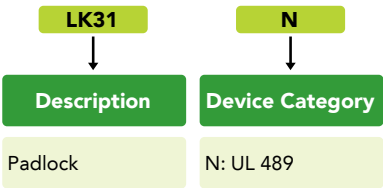
TH	35	A75
Description	Width	Depth
DIN Rail	75: 35 mm	A75: 7.5 mm

Accessory Description	Product	Part Number
35 mm DIN Rail	TH35A75	1001229

Dimensions..... A39

Miniature Circuit Breakers

UL 489 Accessories: Extended Rotary Handle and Padlock



Accessory Description	Product	Part Number
Padlock (Lock Off)	LK31N	1001230

Dimensions..... A40

Miniature Circuit Breakers

UL 489 Accessories: RTT and Clips



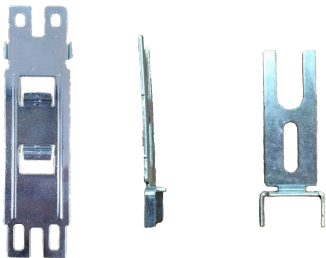
RTT31	N
Description	Device Category
Ring Tongue Terminal	N: UL 489

Accessory Description	Product	Part Number
Ring Tongue Terminal	RTT31N	1001214

Dimensions..... A41

Each pole MCB can be matched with 2 RTTs.

A



Surface Mount and Flush Mount Clips
Dimensions..... A31 & A32

SMC	311N
Description	Poles
SMC: Surface Mount Clips	311N: 1 Pole (Surface Mount)
FMC: Flush Mount Clips	312N: 2 Pole (Surface Mount)
	31N: Flush Mount

Each pole MCB can be matched with 2 FMCs.

Accessory Description	Product	Part Number
Surface Mount Clip - 1 Pole	SMC311N	1002101
Surface Mount Clip - 2 Pole	SMC312N	1002102
Flush Mount Clip	FMC31N	1001251

Miniature Circuit Breakers

UL 489 Accessory Specifications and Dimensions

		Alarm Switch AL	Auxiliary Contact AX	Shunt Trip		Under-Voltage Trip	
				SHT	SHT+AX	UVT	UVT+AX
Applicable Standard		UL 489					
Ratings (50/60 Hz)	Vac	480/3 A, 277/3 A, 240/6 A		110~415		120, 240	
	Vdc	250/0.5 A, 125/1 A, 48/2 A, 24/6 A		110~130		-	
	Vac/dc	-		6~12, 48~60, 12~24		48	
Auxiliary Contact Configuration		-	1NO+1NC	-	1NO+1NC	-	1NO+1NC

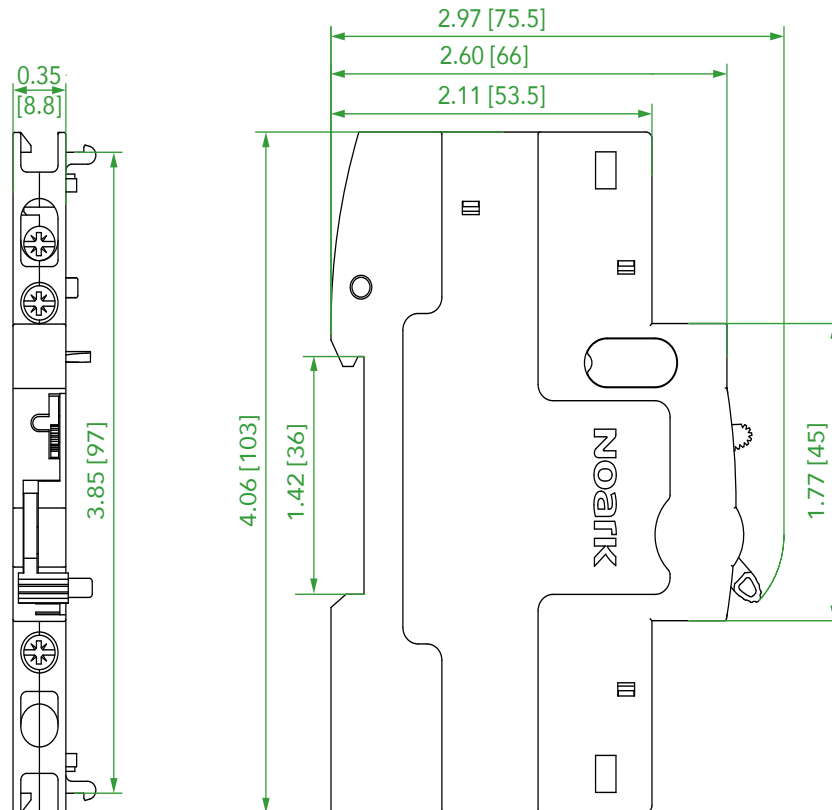
Miniature Circuit Breakers

UL 489 Accessory Dimensions: Alarm/Aux Contact

AL31N/AX31N

Alarm Switch/Auxiliary Contact

Unit: in [mm]



A

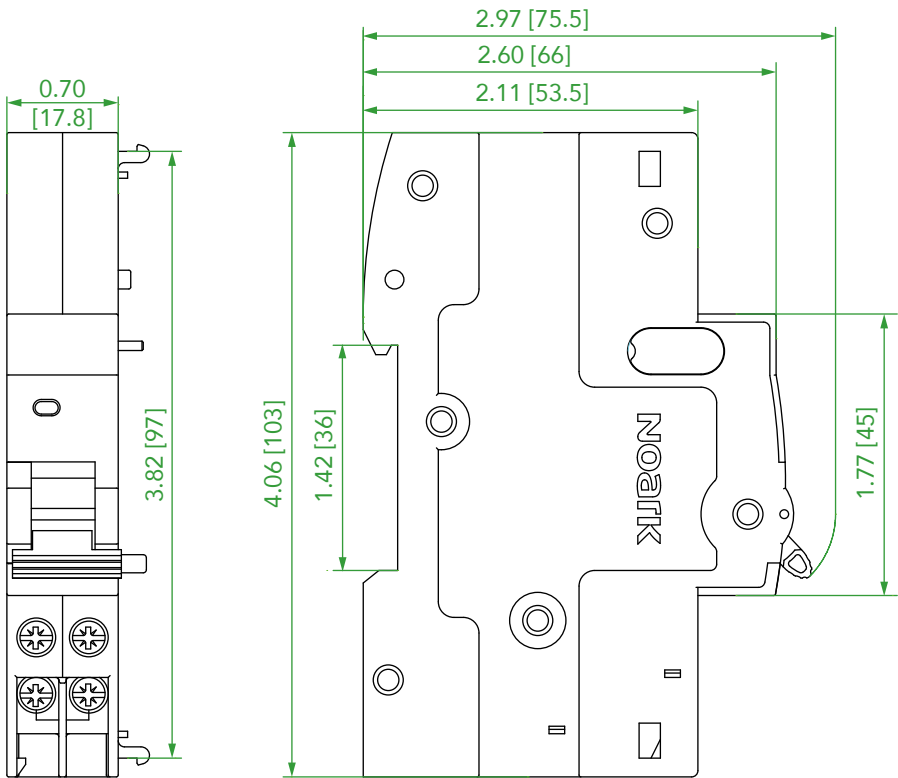
Miniature Circuit Breakers

UL 489 Accessory Dimensions: Shunt/UV Trip & DIN

SHT31N/UVT31N

Shunt Trip/
Under-Voltage Trip

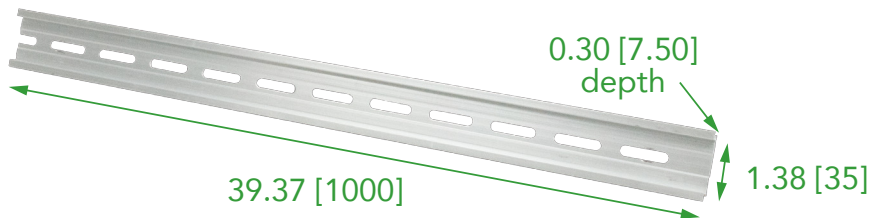
Unit: in [mm]



TH35A75

DIN Rail (35 mm)

Unit: in [mm]



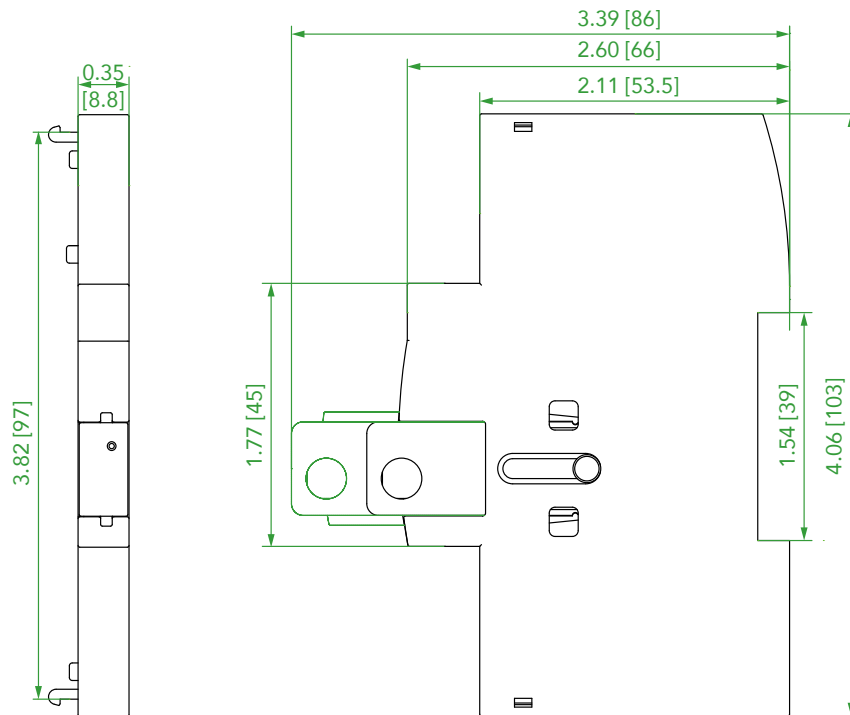
Miniature Circuit Breakers

UL 489 Accessory Dimensions: Handle and Padlock

LK31N

Padlock

Unit: in [mm]

**A**

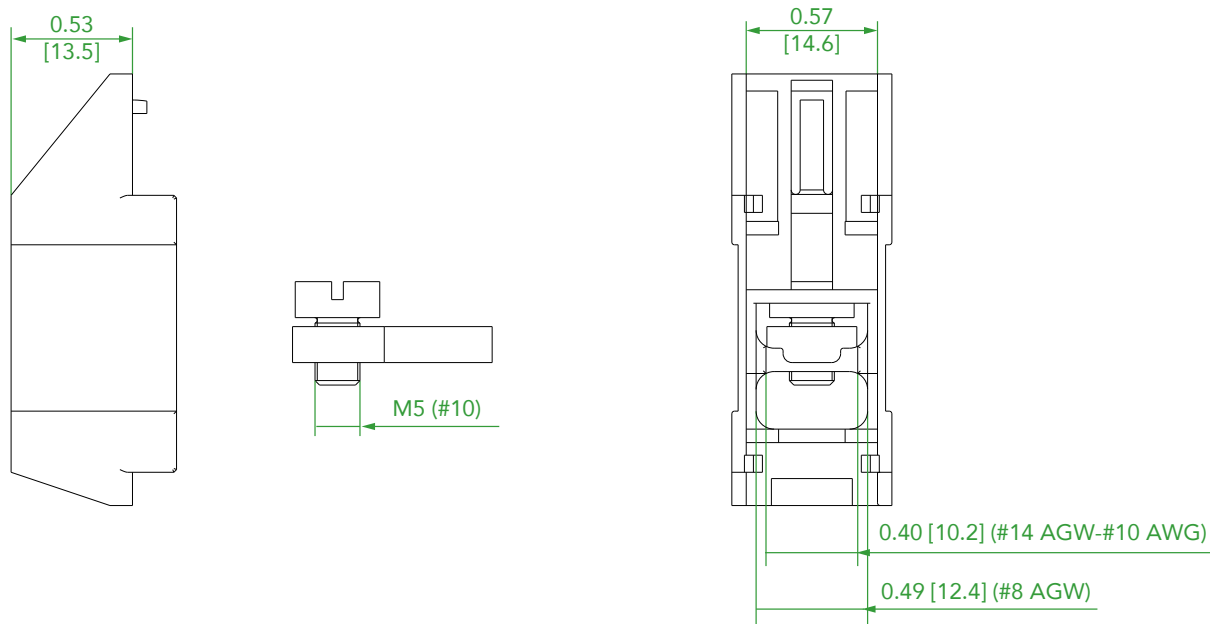
Miniature Circuit Breakers

UL 489 Accessory Dimensions: RTT and Clips

RTT31N

Ring Tongue Terminal

Unit: in [mm]



* See Page A31 For B1NQ Surface and Front Mount Dimensions



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