

Information Sheet  
**DIN Rail Miniature Circuit Breakers**  
Ex9 Series - B1H, B1N, B1NQ and B1D



## NOARK Electric's Miniature Circuit Breakers

A perfect blend of quality, performance and exceptional value

### Broad Product Range

- Amperage ratings: 0.5~63 A

### Global Acceptance

- Certified to UL 489,  
CSA 22.2 No. 5-16 and IEC 60947-2

### Flexible Terminals

- Less physical demand
- Detachable shield to make it faster  
and easier for installer

### Three Terminal Options

- Box Lug
- Ring Tongue Terminal
- Quick Connect

### Multiple Accessories

- Extended rotary handle
- Electrical auxiliaries
- Locking device



		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	-	10		10	-			
	240 Vac		10	10			10					
	277 Vac			-				-				
	480Y/277 Vac	-	-			-						
	60 Vdc	-			10	10	-	-				
	125 Vdc	-			-	10	-				10	-
	250 Vdc	-			-	-	-				-	10
Inverse Time-Delay Over-Current Release Type		Thermal-Magnetic										
Service Life	Electrical	10,000							6,000			
	Mechanical	20,000							10,000			
Protection Degree		IP 20										
Wire AWG (mm <sup>2</sup> )	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 (V)	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), the relative humidity does not exceed 90% At 104 °F (+40), the relative humidity does not exceed 50%										

## Product Selection Guide

B1	N	1	C	20	R	
<b>NOARK Ex9 Series - B1</b>	<b>Standard</b>	<b>Pole</b>	<b>Trip Curve</b>	<b>Rated Current</b>	<b>Terminal Option</b>	<b>Accessories</b>
	H: 480Y/277 Vac UL 489 Listed	1: 1 Pole	B: 3~5 In	B1H: 0.5~32 A	Blank: Box Lugs are Standard	<ul style="list-style-type: none"> <li>Alarm Switch</li> <li>Auxiliary Contact</li> <li>DIN Rail</li> <li>Extended Rotary Handle</li> <li>Padlock</li> <li>Quick Connection Terminal</li> <li>Ring Tongue Terminal</li> <li>Shunt Trip</li> <li>Under-Voltage Trip</li> </ul>
	N: 240 Vac; 60/125 Vdc UL 489 Listed	2: 2 Poles	C: 5~10 In 7~15 In (B1D Only)	B1N: 0.5~63 A	R: Ring Tongue Terminal	
	NQ: 120/240 Vac (1 & 2 Pole Only) UL 489 Listed	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)	
	D: 125 Vdc (1P)/250 Vdc (2P) UL 489 Listed			B1D: 0.5~63 A		

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