# Mini-întreruptoare automate
# **Ex9BN, 6 kA**






- Mini-întreruptoare automate IEC/EN 60898-1 și IEC/EN 60947-2
- Capacitate nominală de rupere la scurtcircuit $I_{cn}$ 6 kA, 10 kA
- Versiuni cu 1 până la 4 poli
- Caracteristici de declanșare B, C, D
- Curent nominal până la 63 A
- Tensiune nominală operațională 240/415 V
- 72 V DC pe pol (1P, 2P)
  48 V DC pe pol (3P, 4P)
- Gamă largă de accesorii

Mini-întreruptoarele automate Ex9BN sunt potrivite pentru distribuția de energie atât pentru aplicații industriale, cât și pentru aplicații rezidențiale/comerciale.

Aceste întreruptoare pot fi combinate cu o gamă largă de accesorii: contacte auxiliare de poziție și semnalizare declanșare, bobine de declanșare, bobine de minimă tensiune și de supratensiune sau blocuri diferențiale atașabile. Se pot utiliza combinații de diverse accesorii. Se pot utiliza până la trei unități de contacte auxiliare și/sau de semnalizare declanșare, plus două unități pentru bobine.

## Codificare produs

| Ex9 | B | N | 1P | B | 16 |
|---|---|---|---|---|---|
| Familie produs | Produs | Capacitate rupere | Poli | Curbă declanșare | Curent nominal |
| Ex9 | B: MCB | N: 6 kA | 1, 1N, 2, 3, 3N, 4 | B, C, D | 1 - 63 A |

## Marcaje de certificare

# Mini-întreruptoare automate **Ex9BN, 6 kA**

## Accesorii




Contacte auxiliare de poziție sau de declanșare **AX, AL, AXL** până la 3 unități

Bobine de minimă tensiune, supratensiune sau declanșare **UVT, OVT, SHT** până la 2 unități

MCB **Ex9B** 1, 1+N, 2, 3, 3+N, 4 poli

Bloc atașabil RCD **Ex9LE** 1+N, 2, 3, 3+N, 4 poli

Contacte auxiliare de poziție AX3111, AX3122

Contact auxiliar de semnalizare declanșare AL3111

Contact auxiliar și de semnalizare declanșare AXL31

Bobină de declanșare SHT31, SHT3111

Bobină de minimă tensiune UVT31, UVT3101, UVT3110

Bobină de supratensiune OVT31

Blocuri diferențiale atașabile, tip Ex9LE

Blocurile diferențiale atașabile RCD sunt montate pe mini-întreruptoarele automate Ex9B în partea dreaptă, iar celelalte accesorii sunt montate în partea stângă.

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# Mini-întreruptoare automate **Ex9BN, 6 kA**



## Caracteristică declanșare B, 1 pol



| Curent nominal | Poli | Caract. | Nr. articol | Tip | Ambalaj |
|---|---|---|---|---|---|
| 1 A | 1 | B | 100000 | Ex9BN 1P B1 | 1/12/144 |
| 2 A | 1 | B | 100001 | Ex9BN 1P B2 | 1/12/144 |
| 3 A | 1 | B | 100002 | Ex9BN 1P B3 | 1/12/144 |
| 4 A | 1 | B | 100003 | Ex9BN 1P B4 | 1/12/144 |
| 6 A | 1 | B | 100004 | Ex9BN 1P B6 | 1/12/144 |
| 8 A | 1 | B | 100005 | Ex9BN 1P B8 | 1/12/144 |
| 10 A | 1 | B | 100006 | Ex9BN 1P B10 | 1/12/144 |
| 13 A | 1 | B | 100007 | Ex9BN 1P B13 | 1/12/144 |
| 16 A | 1 | B | 100008 | Ex9BN 1P B16 | 1/12/144 |
| 20 A | 1 | B | 100009 | Ex9BN 1P B20 | 1/12/144 |
| 25 A | 1 | B | 100010 | Ex9BN 1P B25 | 1/12/144 |
| 32 A | 1 | B | 100011 | Ex9BN 1P B32 | 1/12/144 |
| 40 A | 1 | B | 100012 | Ex9BN 1P B40 | 1/12/144 |
| 50 A | 1 | B | 100013 | Ex9BN 1P B50 | 1/12/144 |
| 63 A | 1 | B | 100014 | Ex9BN 1P B63 | 1/12/144 |

## Caracteristică declanșare B, 1+N poli



| Curent nominal | Poli | Caract. | Nr. articol | Tip | Ambalaj |
|---|---|---|---|---|---|
| 1 A | 1+N | B | 100015 | Ex9BN 1PN B1 | 1/6/72 |
| 2 A | 1+N | B | 100016 | Ex9BN 1PN B2 | 1/6/72 |
| 3 A | 1+N | B | 100017 | Ex9BN 1PN B3 | 1/6/72 |
| 4 A | 1+N | B | 100018 | Ex9BN 1PN B4 | 1/6/72 |
| 6 A | 1+N | B | 100019 | Ex9BN 1PN B6 | 1/6/72 |
| 8 A | 1+N | B | 100020 | Ex9BN 1PN B8 | 1/6/72 |
| 10 A | 1+N | B | 100021 | Ex9BN 1PN B10 | 1/6/72 |
| 13 A | 1+N | B | 100022 | Ex9BN 1PN B13 | 1/6/72 |
| 16 A | 1+N | B | 100023 | Ex9BN 1PN B16 | 1/6/72 |
| 20 A | 1+N | B | 100024 | Ex9BN 1PN B20 | 1/6/72 |
| 25 A | 1+N | B | 100025 | Ex9BN 1PN B25 | 1/6/72 |
| 32 A | 1+N | B | 100026 | Ex9BN 1PN B32 | 1/6/72 |
| 40 A | 1+N | B | 100027 | Ex9BN 1PN B40 | 1/6/72 |
| 50 A | 1+N | B | 100028 | Ex9BN 1PN B50 | 1/6/72 |
| 63 A | 1+N | B | 100029 | Ex9BN 1PN B63 | 1/6/72 |

## Caracteristică declanșare B, 2 poli



| Curent nominal | Poli | Caract. | Nr. articol | Tip | Ambalaj |
|---|---|---|---|---|---|
| 1 A | 2 | B | 100030 | Ex9BN 2P B1 | 1/6/72 |
| 2 A | 2 | B | 100031 | Ex9BN 2P B2 | 1/6/72 |
| 3 A | 2 | B | 100032 | Ex9BN 2P B3 | 1/6/72 |
| 4 A | 2 | B | 100033 | Ex9BN 2P B4 | 1/6/72 |
| 6 A | 2 | B | 100034 | Ex9BN 2P B6 | 1/6/72 |
| 8 A | 2 | B | 100035 | Ex9BN 2P B8 | 1/6/72 |
| 10 A | 2 | B | 100036 | Ex9BN 2P B10 | 1/6/72 |
| 13 A | 2 | B | 100037 | Ex9BN 2P B13 | 1/6/72 |
| 16 A | 2 | B | 100038 | Ex9BN 2P B16 | 1/6/72 |
| 20 A | 2 | B | 100039 | Ex9BN 2P B20 | 1/6/72 |
| 25 A | 2 | B | 100040 | Ex9BN 2P B25 | 1/6/72 |
| 32 A | 2 | B | 100041 | Ex9BN 2P B32 | 1/6/72 |
| 40 A | 2 | B | 100042 | Ex9BN 2P B40 | 1/6/72 |
| 50 A | 2 | B | 100043 | Ex9BN 2P B50 | 1/6/72 |
| 63 A | 2 | B | 100044 | Ex9BN 2P B63 | 1/6/72 |

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## Caracteristică declanșare B, 3 poli



| Curent nominal | Poli | Caract. | Nr. articol | Tip | Ambalaj |
|---|---|---|---|---|---|
| 1 A | 3 | B | 100045 | Ex9BN 3P B1 | 1/4/48 |
| 2 A | 3 | B | 100046 | Ex9BN 3P B2 | 1/4/48 |
| 3 A | 3 | B | 100047 | Ex9BN 3P B3 | 1/4/48 |
| 4 A | 3 | B | 100048 | Ex9BN 3P B4 | 1/4/48 |
| 6 A | 3 | B | 100049 | Ex9BN 3P B6 | 1/4/48 |
| 8 A | 3 | B | 100050 | Ex9BN 3P B8 | 1/4/48 |
| 10 A | 3 | B | 100051 | Ex9BN 3P B10 | 1/4/48 |
| 13 A | 3 | B | 100052 | Ex9BN 3P B13 | 1/4/48 |
| 16 A | 3 | B | 100053 | Ex9BN 3P B16 | 1/4/48 |
| 20 A | 3 | B | 100054 | Ex9BN 3P B20 | 1/4/48 |
| 25 A | 3 | B | 100055 | Ex9BN 3P B25 | 1/4/48 |
| 32 A | 3 | B | 100056 | Ex9BN 3P B32 | 1/4/48 |
| 40 A | 3 | B | 100057 | Ex9BN 3P B40 | 1/4/48 |
| 50 A | 3 | B | 100058 | Ex9BN 3P B50 | 1/4/48 |
| 63 A | 3 | B | 100059 | Ex9BN 3P B63 | 1/4/48 |

## Caracteristică declanșare B, 3+N poli



| Curent nominal | Poli | Caract. | Nr. articol | Tip | Ambalaj |
|---|---|---|---|---|---|
| 1 A | 3+N | B | 100060 | Ex9BN 3PN B1 | 1/3/36 |
| 2 A | 3+N | B | 100061 | Ex9BN 3PN B2 | 1/3/36 |
| 3 A | 3+N | B | 100062 | Ex9BN 3PN B3 | 1/3/36 |
| 4 A | 3+N | B | 100063 | Ex9BN 3PN B4 | 1/3/36 |
| 6 A | 3+N | B | 100064 | Ex9BN 3PN B6 | 1/3/36 |
| 8 A | 3+N | B | 100065 | Ex9BN 3PN B8 | 1/3/36 |
| 10 A | 3+N | B | 100066 | Ex9BN 3PN B10 | 1/3/36 |
| 13 A | 3+N | B | 100067 | Ex9BN 3PN B13 | 1/3/36 |
| 16 A | 3+N | B | 100068 | Ex9BN 3PN B16 | 1/3/36 |
| 20 A | 3+N | B | 100069 | Ex9BN 3PN B20 | 1/3/36 |
| 25 A | 3+N | B | 100070 | Ex9BN 3PN B25 | 1/3/36 |
| 32 A | 3+N | B | 100071 | Ex9BN 3PN B32 | 1/3/36 |
| 40 A | 3+N | B | 100072 | Ex9BN 3PN B40 | 1/3/36 |
| 50 A | 3+N | B | 100073 | Ex9BN 3PN B50 | 1/3/36 |
| 63 A | 3+N | B | 100074 | Ex9BN 3PN B63 | 1/3/36 |

## Caracteristică declanșare B, 4 poli



| Curent nominal | Poli | Caract. | Nr. articol | Tip | Ambalaj |
|---|---|---|---|---|---|
| 1 A | 4 | B | 100075 | Ex9BN 4P B1 | 1/3/36 |
| 2 A | 4 | B | 100076 | Ex9BN 4P B2 | 1/3/36 |
| 3 A | 4 | B | 100077 | Ex9BN 4P B3 | 1/3/36 |
| 4 A | 4 | B | 100078 | Ex9BN 4P B4 | 1/3/36 |
| 6 A | 4 | B | 100079 | Ex9BN 4P B6 | 1/3/36 |
| 8 A | 4 | B | 100080 | Ex9BN 4P B8 | 1/3/36 |
| 10 A | 4 | B | 100081 | Ex9BN 4P B10 | 1/3/36 |
| 13 A | 4 | B | 100082 | Ex9BN 4P B13 | 1/3/36 |
| 16 A | 4 | B | 100083 | Ex9BN 4P B16 | 1/3/36 |
| 20 A | 4 | B | 100084 | Ex9BN 4P B20 | 1/3/36 |
| 25 A | 4 | B | 100085 | Ex9BN 4P B25 | 1/3/36 |
| 32 A | 4 | B | 100086 | Ex9BN 4P B32 | 1/3/36 |
| 40 A | 4 | B | 100087 | Ex9BN 4P B40 | 1/3/36 |
| 50 A | 4 | B | 100088 | Ex9BN 4P B50 | 1/3/36 |
| 63 A | 4 | B | 100089 | Ex9BN 4P B63 | 1/3/36 |

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# Mini-întreruptoare automate **Ex9BN, 6 kA**



## Caracteristică declanșare C, 1 pol



| Curent nominal | Poli | Caract. | Nr. articol | Tip | Ambalaj |
|---|---|---|---|---|---|
| 1 A | 1 | C | 100090 | Ex9BN 1P C1 | 1/12/144 |
| 2 A | 1 | C | 100091 | Ex9BN 1P C2 | 1/12/144 |
| 3 A | 1 | C | 100092 | Ex9BN 1P C3 | 1/12/144 |
| 4 A | 1 | C | 100093 | Ex9BN 1P C4 | 1/12/144 |
| 6 A | 1 | C | 100094 | Ex9BN 1P C6 | 1/12/144 |
| 8 A | 1 | C | 100095 | Ex9BN 1P C8 | 1/12/144 |
| 10 A | 1 | C | 100096 | Ex9BN 1P C10 | 1/12/144 |
| 13 A | 1 | C | 100097 | Ex9BN 1P C13 | 1/12/144 |
| 16 A | 1 | C | 100098 | Ex9BN 1P C16 | 1/12/144 |
| 20 A | 1 | C | 100099 | Ex9BN 1P C20 | 1/12/144 |
| 25 A | 1 | C | 100100 | Ex9BN 1P C25 | 1/12/144 |
| 32 A | 1 | C | 100101 | Ex9BN 1P C32 | 1/12/144 |
| 40 A | 1 | C | 100102 | Ex9BN 1P C40 | 1/12/144 |
| 50 A | 1 | C | 100103 | Ex9BN 1P C50 | 1/12/144 |
| 63 A | 1 | C | 100104 | Ex9BN 1P C63 | 1/12/144 |

## Caracteristică declanșare C, 1+N poli



| Curent nominal | Poli | Caract. | Nr. articol | Tip | Ambalaj |
|---|---|---|---|---|---|
| 1 A | 1+N | C | 100105 | Ex9BN 1PN C1 | 1/6/72 |
| 2 A | 1+N | C | 100106 | Ex9BN 1PN C2 | 1/6/72 |
| 3 A | 1+N | C | 100107 | Ex9BN 1PN C3 | 1/6/72 |
| 4 A | 1+N | C | 100108 | Ex9BN 1PN C4 | 1/6/72 |
| 6 A | 1+N | C | 100109 | Ex9BN 1PN C6 | 1/6/72 |
| 8 A | 1+N | C | 100110 | Ex9BN 1PN C8 | 1/6/72 |
| 10 A | 1+N | C | 100111 | Ex9BN 1PN C10 | 1/6/72 |
| 13 A | 1+N | C | 100112 | Ex9BN 1PN C13 | 1/6/72 |
| 16 A | 1+N | C | 100113 | Ex9BN 1PN C16 | 1/6/72 |
| 20 A | 1+N | C | 100114 | Ex9BN 1PN C20 | 1/6/72 |
| 25 A | 1+N | C | 100115 | Ex9BN 1PN C25 | 1/6/72 |
| 32 A | 1+N | C | 100116 | Ex9BN 1PN C32 | 1/6/72 |
| 40 A | 1+N | C | 100117 | Ex9BN 1PN C40 | 1/6/72 |
| 50 A | 1+N | C | 100118 | Ex9BN 1PN C50 | 1/6/72 |
| 63 A | 1+N | C | 100119 | Ex9BN 1PN C63 | 1/6/72 |

## Caracteristică declanșare C, 2 poli



| Curent nominal | Poli | Caract. | Nr. articol | Tip | Ambalaj |
|---|---|---|---|---|---|
| 1 A | 2 | C | 100120 | Ex9BN 2P C1 | 1/6/72 |
| 2 A | 2 | C | 100121 | Ex9BN 2P C2 | 1/6/72 |
| 3 A | 2 | C | 100122 | Ex9BN 2P C3 | 1/6/72 |
| 4 A | 2 | C | 100123 | Ex9BN 2P C4 | 1/6/72 |
| 6 A | 2 | C | 100124 | Ex9BN 2P C6 | 1/6/72 |
| 8 A | 2 | C | 100125 | Ex9BN 2P C8 | 1/6/72 |
| 10 A | 2 | C | 100126 | Ex9BN 2P C10 | 1/6/72 |
| 13 A | 2 | C | 100127 | Ex9BN 2P C13 | 1/6/72 |
| 16 A | 2 | C | 100128 | Ex9BN 2P C16 | 1/6/72 |
| 20 A | 2 | C | 100129 | Ex9BN 2P C20 | 1/6/72 |
| 25 A | 2 | C | 100130 | Ex9BN 2P C25 | 1/6/72 |
| 32 A | 2 | C | 100131 | Ex9BN 2P C32 | 1/6/72 |
| 40 A | 2 | C | 100132 | Ex9BN 2P C40 | 1/6/72 |
| 50 A | 2 | C | 100133 | Ex9BN 2P C50 | 1/6/72 |
| 63 A | 2 | C | 100134 | Ex9BN 2P C63 | 1/6/72 |

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# Mini-întreruptoare automate **Ex9BN, 6 kA**

## Caracteristică declanșare C, 3 poli



| Curent nominal | Poli | Caract. | Nr. articol | Tip | Ambalaj |
|---|---|---|---|---|---|
| 1 A | 3 | C | 100135 | Ex9BN 3P C1 | 1/4/48 |
| 2 A | 3 | C | 100136 | Ex9BN 3P C2 | 1/4/48 |
| 3 A | 3 | C | 100137 | Ex9BN 3P C3 | 1/4/48 |
| 4 A | 3 | C | 100138 | Ex9BN 3P C4 | 1/4/48 |
| 6 A | 3 | C | 100139 | Ex9BN 3P C6 | 1/4/48 |
| 8 A | 3 | C | 100140 | Ex9BN 3P C8 | 1/4/48 |
| 10 A | 3 | C | 100141 | Ex9BN 3P C10 | 1/4/48 |
| 13 A | 3 | C | 100142 | Ex9BN 3P C13 | 1/4/48 |
| 16 A | 3 | C | 100143 | Ex9BN 3P C16 | 1/4/48 |
| 20 A | 3 | C | 100144 | Ex9BN 3P C20 | 1/4/48 |
| 25 A | 3 | C | 100145 | Ex9BN 3P C25 | 1/4/48 |
| 32 A | 3 | C | 100146 | Ex9BN 3P C32 | 1/4/48 |
| 40 A | 3 | C | 100147 | Ex9BN 3P C40 | 1/4/48 |
| 50 A | 3 | C | 100148 | Ex9BN 3P C50 | 1/4/48 |
| 63 A | 3 | C | 100149 | Ex9BN 3P C63 | 1/4/48 |

## Caracteristică declanșare C, 3+N poli



| Curent nominal | Poli | Caract. | Nr. articol | Tip | Ambalaj |
|---|---|---|---|---|---|
| 1 A | 3+N | C | 100150 | Ex9BN 3PN C1 | 1/3/36 |
| 2 A | 3+N | C | 100151 | Ex9BN 3PN C2 | 1/3/36 |
| 3 A | 3+N | C | 100152 | Ex9BN 3PN C3 | 1/3/36 |
| 4 A | 3+N | C | 100153 | Ex9BN 3PN C4 | 1/3/36 |
| 6 A | 3+N | C | 100154 | Ex9BN 3PN C6 | 1/3/36 |
| 8 A | 3+N | C | 100155 | Ex9BN 3PN C8 | 1/3/36 |
| 10 A | 3+N | C | 100156 | Ex9BN 3PN C10 | 1/3/36 |
| 13 A | 3+N | C | 100157 | Ex9BN 3PN C13 | 1/3/36 |
| 16 A | 3+N | C | 100158 | Ex9BN 3PN C16 | 1/3/36 |
| 20 A | 3+N | C | 100159 | Ex9BN 3PN C20 | 1/3/36 |
| 25 A | 3+N | C | 100160 | Ex9BN 3PN C25 | 1/3/36 |
| 32 A | 3+N | C | 100161 | Ex9BN 3PN C32 | 1/3/36 |
| 40 A | 3+N | C | 100162 | Ex9BN 3PN C40 | 1/3/36 |
| 50 A | 3+N | C | 100163 | Ex9BN 3PN C50 | 1/3/36 |
| 63 A | 3+N | C | 100164 | Ex9BN 3PN C63 | 1/3/36 |

## Caracteristică declanșare C, 4 poli



| Curent nominal | Poli | Caract. | Nr. articol | Tip | Ambalaj |
|---|---|---|---|---|---|
| 1 A | 4 | C | 100165 | Ex9BN 4P C1 | 1/3/36 |
| 2 A | 4 | C | 100166 | Ex9BN 4P C2 | 1/3/36 |
| 3 A | 4 | C | 100167 | Ex9BN 4P C3 | 1/3/36 |
| 4 A | 4 | C | 100168 | Ex9BN 4P C4 | 1/3/36 |
| 6 A | 4 | C | 100169 | Ex9BN 4P C6 | 1/3/36 |
| 8 A | 4 | C | 100170 | Ex9BN 4P C8 | 1/3/36 |
| 10 A | 4 | C | 100171 | Ex9BN 4P C10 | 1/3/36 |
| 13 A | 4 | C | 100172 | Ex9BN 4P C13 | 1/3/36 |
| 16 A | 4 | C | 100173 | Ex9BN 4P C16 | 1/3/36 |
| 20 A | 4 | C | 100174 | Ex9BN 4P C20 | 1/3/36 |
| 25 A | 4 | C | 100175 | Ex9BN 4P C25 | 1/3/36 |
| 32 A | 4 | C | 100176 | Ex9BN 4P C32 | 1/3/36 |
| 40 A | 4 | C | 100177 | Ex9BN 4P C40 | 1/3/36 |
| 50 A | 4 | C | 100178 | Ex9BN 4P C50 | 1/3/36 |
| 63 A | 4 | C | 100179 | Ex9BN 4P C63 | 1/3/36 |

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# Mini-întreruptoare automate **Ex9BN, 6 kA**



## Caracteristică declanșare D, 1 pol



| Curent nominal | Poli | Caract. | Nr. articol | Tip | Ambalaj |
|---|---|---|---|---|---|
| 1 A | 1 | D | 100180 | Ex9BN 1P D1 | 1/12/144 |
| 2 A | 1 | D | 100181 | Ex9BN 1P D2 | 1/12/144 |
| 3 A | 1 | D | 100182 | Ex9BN 1P D3 | 1/12/144 |
| 4 A | 1 | D | 100183 | Ex9BN 1P D4 | 1/12/144 |
| 6 A | 1 | D | 100184 | Ex9BN 1P D6 | 1/12/144 |
| 8 A | 1 | D | 100185 | Ex9BN 1P D8 | 1/12/144 |
| 10 A | 1 | D | 100186 | Ex9BN 1P D10 | 1/12/144 |
| 13 A | 1 | D | 100187 | Ex9BN 1P D13 | 1/12/144 |
| 16 A | 1 | D | 100188 | Ex9BN 1P D16 | 1/12/144 |
| 20 A | 1 | D | 100189 | Ex9BN 1P D20 | 1/12/144 |
| 25 A | 1 | D | 100190 | Ex9BN 1P D25 | 1/12/144 |
| 32 A | 1 | D | 100191 | Ex9BN 1P D32 | 1/12/144 |
| 40 A | 1 | D | 100192 | Ex9BN 1P D40 | 1/12/144 |
| 50 A | 1 | D | 100193 | Ex9BN 1P D50 | 1/12/144 |
| 63 A | 1 | D | 100194 | Ex9BN 1P D63 | 1/12/144 |

## Caracteristică declanșare D, 1+N poli



| Curent nominal | Poli | Caract. | Nr. articol | Tip | Ambalaj |
|---|---|---|---|---|---|
| 1 A | 1+N | D | 100195 | Ex9BN 1PN D1 | 1/6/72 |
| 2 A | 1+N | D | 100196 | Ex9BN 1PN D2 | 1/6/72 |
| 3 A | 1+N | D | 100197 | Ex9BN 1PN D3 | 1/6/72 |
| 4 A | 1+N | D | 100198 | Ex9BN 1PN D4 | 1/6/72 |
| 6 A | 1+N | D | 100199 | Ex9BN 1PN D6 | 1/6/72 |
| 8 A | 1+N | D | 100200 | Ex9BN 1PN D8 | 1/6/72 |
| 10 A | 1+N | D | 100201 | Ex9BN 1PN D10 | 1/6/72 |
| 13 A | 1+N | D | 100202 | Ex9BN 1PN D13 | 1/6/72 |
| 16 A | 1+N | D | 100203 | Ex9BN 1PN D16 | 1/6/72 |
| 20 A | 1+N | D | 100204 | Ex9BN 1PN D20 | 1/6/72 |
| 25 A | 1+N | D | 100205 | Ex9BN 1PN D25 | 1/6/72 |
| 32 A | 1+N | D | 100206 | Ex9BN 1PN D32 | 1/6/72 |
| 40 A | 1+N | D | 100207 | Ex9BN 1PN D40 | 1/6/72 |
| 50 A | 1+N | D | 100208 | Ex9BN 1PN D50 | 1/6/72 |
| 63 A | 1+N | D | 100209 | Ex9BN 1PN D63 | 1/6/72 |

## Caracteristică declanșare D, 2 poli



| Curent nominal | Poli | Caract. | Nr. articol | Tip | Ambalaj |
|---|---|---|---|---|---|
| 1 A | 2 | D | 100210 | Ex9BN 2P D1 | 1/6/72 |
| 2 A | 2 | D | 100211 | Ex9BN 2P D2 | 1/6/72 |
| 3 A | 2 | D | 100212 | Ex9BN 2P D3 | 1/6/72 |
| 4 A | 2 | D | 100213 | Ex9BN 2P D4 | 1/6/72 |
| 6 A | 2 | D | 100214 | Ex9BN 2P D6 | 1/6/72 |
| 8 A | 2 | D | 100215 | Ex9BN 2P D8 | 1/6/72 |
| 10 A | 2 | D | 100216 | Ex9BN 2P D10 | 1/6/72 |
| 13 A | 2 | D | 100217 | Ex9BN 2P D13 | 1/6/72 |
| 16 A | 2 | D | 100218 | Ex9BN 2P D16 | 1/6/72 |
| 20 A | 2 | D | 100219 | Ex9BN 2P D20 | 1/6/72 |
| 25 A | 2 | D | 100220 | Ex9BN 2P D25 | 1/6/72 |
| 32 A | 2 | D | 100221 | Ex9BN 2P D32 | 1/6/72 |
| 40 A | 2 | D | 100222 | Ex9BN 2P D40 | 1/6/72 |
| 50 A | 2 | D | 100223 | Ex9BN 2P D50 | 1/6/72 |
| 63 A | 2 | D | 100224 | Ex9BN 2P D63 | 1/6/72 |

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# Mini-întreruptoare automate **Ex9BN, 6 kA**

## Caracteristică declanșare D, 3 poli



| Curent nominal | Poli | Caract. | Nr. articol | Tip | Ambalaj |
|---|---|---|---|---|---|
| 1 A | 3 | D | 100225 | Ex9BN 3P D1 | 1/4/48 |
| 2 A | 3 | D | 100226 | Ex9BN 3P D2 | 1/4/48 |
| 3 A | 3 | D | 100227 | Ex9BN 3P D3 | 1/4/48 |
| 4 A | 3 | D | 100228 | Ex9BN 3P D4 | 1/4/48 |
| 6 A | 3 | D | 100229 | Ex9BN 3P D6 | 1/4/48 |
| 8 A | 3 | D | 100230 | Ex9BN 3P D8 | 1/4/48 |
| 10 A | 3 | D | 100231 | Ex9BN 3P D10 | 1/4/48 |
| 13 A | 3 | D | 100232 | Ex9BN 3P D13 | 1/4/48 |
| 16 A | 3 | D | 100233 | Ex9BN 3P D16 | 1/4/48 |
| 20 A | 3 | D | 100234 | Ex9BN 3P D20 | 1/4/48 |
| 25 A | 3 | D | 100235 | Ex9BN 3P D25 | 1/4/48 |
| 32 A | 3 | D | 100236 | Ex9BN 3P D32 | 1/4/48 |
| 40 A | 3 | D | 100237 | Ex9BN 3P D40 | 1/4/48 |
| 50 A | 3 | D | 100238 | Ex9BN 3P D50 | 1/4/48 |
| 63 A | 3 | D | 100239 | Ex9BN 3P D63 | 1/4/48 |

## Caracteristică declanșare D, 3+N poli



| Curent nominal | Poli | Caract. | Nr. articol | Tip | Ambalaj |
|---|---|---|---|---|---|
| 1 A | 3+N | D | 100240 | Ex9BN 3PN D1 | 1/3/36 |
| 2 A | 3+N | D | 100241 | Ex9BN 3PN D2 | 1/3/36 |
| 3 A | 3+N | D | 100242 | Ex9BN 3PN D3 | 1/3/36 |
| 4 A | 3+N | D | 100243 | Ex9BN 3PN D4 | 1/3/36 |
| 6 A | 3+N | D | 100244 | Ex9BN 3PN D6 | 1/3/36 |
| 8 A | 3+N | D | 100245 | Ex9BN 3PN D8 | 1/3/36 |
| 10 A | 3+N | D | 100246 | Ex9BN 3PN D10 | 1/3/36 |
| 13 A | 3+N | D | 100247 | Ex9BN 3PN D13 | 1/3/36 |
| 16 A | 3+N | D | 100248 | Ex9BN 3PN D16 | 1/3/36 |
| 20 A | 3+N | D | 100249 | Ex9BN 3PN D20 | 1/3/36 |
| 25 A | 3+N | D | 100250 | Ex9BN 3PN D25 | 1/3/36 |
| 32 A | 3+N | D | 100251 | Ex9BN 3PN D32 | 1/3/36 |
| 40 A | 3+N | D | 100252 | Ex9BN 3PN D40 | 1/3/36 |
| 50 A | 3+N | D | 100253 | Ex9BN 3PN D50 | 1/3/36 |
| 63 A | 3+N | D | 100254 | Ex9BN 3PN D63 | 1/3/36 |

## Caracteristică declanșare D, 4 poli



| Curent nominal | Poli | Caract. | Nr. articol | Tip | Ambalaj |
|---|---|---|---|---|---|
| 1 A | 4 | D | 100255 | Ex9BN 4P D1 | 1/3/36 |
| 2 A | 4 | D | 100256 | Ex9BN 4P D2 | 1/3/36 |
| 3 A | 4 | D | 100257 | Ex9BN 4P D3 | 1/3/36 |
| 4 A | 4 | D | 100258 | Ex9BN 4P D4 | 1/3/36 |
| 6 A | 4 | D | 100259 | Ex9BN 4P D6 | 1/3/36 |
| 8 A | 4 | D | 100260 | Ex9BN 4P D8 | 1/3/36 |
| 10 A | 4 | D | 100261 | Ex9BN 4P D10 | 1/3/36 |
| 13 A | 4 | D | 100262 | Ex9BN 4P D13 | 1/3/36 |
| 16 A | 4 | D | 100263 | Ex9BN 4P D16 | 1/3/36 |
| 20 A | 4 | D | 100264 | Ex9BN 4P D20 | 1/3/36 |
| 25 A | 4 | D | 100265 | Ex9BN 4P D25 | 1/3/36 |
| 32 A | 4 | D | 100266 | Ex9BN 4P D32 | 1/3/36 |
| 40 A | 4 | D | 100267 | Ex9BN 4P D40 | 1/3/36 |
| 50 A | 4 | D | 100268 | Ex9BN 4P D50 | 1/3/36 |
| 63 A | 4 | D | 100269 | Ex9BN 4P D63 | 1/3/36 |

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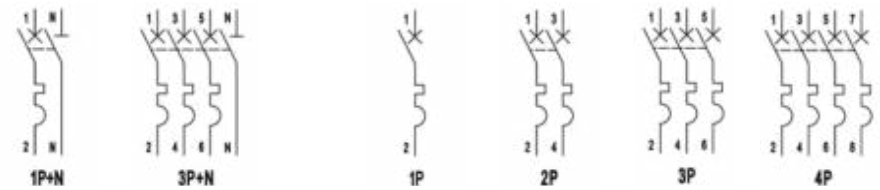
# Date tehnice **Ex9BN**

## Mini-întreruptoare automate, Ex9BN, 6 kA

| Parametri generali | | |
|---|---|---|
| Limitare foarte ridicată a curentului de scurtcircuit | | |
| Potrivit pentru aplicații rezidențiale/comerciale, cât și pentru cele industriale | | |
| Accesorii | | |
| Contacte auxiliare de poziție | AX3111, AX3122 | 100540, 100542 |
| Contacte de semn. declanșare | AL3111 | 100541 |
| Contact auxiliar poziție și de declanșare | AXL31 | 100543 |
| Bobine de declanșare | SHT31, SHT3111 | 100544-100546, 100547-100549 |
| Bobine de minimă tensiune | UVT31, UVT3101, UVT3110 | 100550-100551, 100552-100553, 100554-100555 |
| Bobine de supratensiune | OVT31 280V AC±5% | 100556 |
| Numărul maxim de accesorii instalate este de 3 pentru contacte (AX, AL, AXL) și 2 pentru bobine (SHT, UVT, OVT). | | |
| Blocuri diferențiale atașabile | Ex9LE | |

| Parametri electrici | |
|---|---|
| Testat conform | IEC/EN 60898-1, IEC/EN 60947-2 |
| Tensiune nom. op $U_e$ | 240/415 V AC |
| | 72 V DC pe pol (1P, 2P), 48 V DC pe pol (3P, 4P) |
| Tensiune minimă | 12 V AC/DC |
| Tensiune nom. de ținere la impuls $U_{imp}$ IEC 60898-1 | 6 kV |
| Tensiune nom. de ținere la impuls $U_{imp}$ IEC 60947-2 | 6 kV |
| Tensiune nom. de izolare $U_i$ | 690 V AC |
| Frecvență nominală | 50/60 Hz |
| Capacitatea nominală la rupere $I_{cn}$ IEC 60898-1 | 6 kA |
| Capacitatea nominală la rupere $I_{cn}$ IEC 60947-2 | 10 kA |
| Curent nominal | 1 — 63 A |
| Caracteristici de declanșare | B, C, D |
| Durata de viață mecanică | 20.000 cicluri de operare |
| Durata de viață electrică | 10.000 cicluri de operare |
| Clasă de selectivitate | 3 |
| Categoria de utilizare | A |
| Siguranță fuzibilă max. | max. 125 A gG |
| Conectare tensiune | Arbitrar sus sau jos |

## Scheme de conexuine



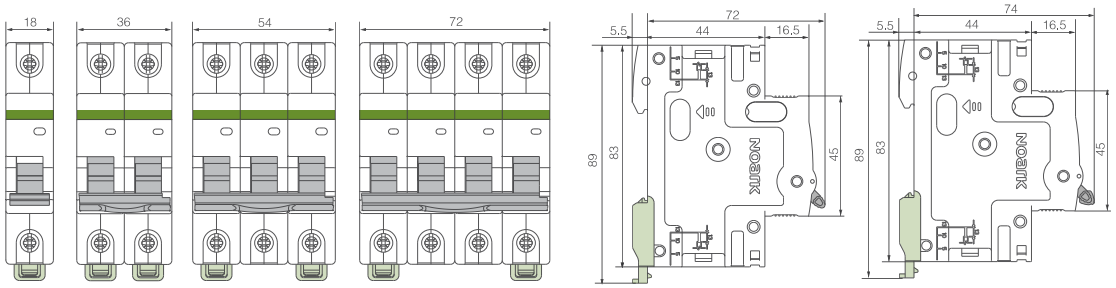

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# Date tehnice **Ex9BN**

**Mini-întreruptoare automate, Ex9BN, 6 kA**

| Parametri mecanici | |
|---|---|
| Lățime dispozitiv | 18 mm (pe pol) |
| Înălțime dispozitiv | 83 mm (89 mm inclusiv clemă șină) |
| Mărime cadru | 45 mm |
| Montare | Prindere rapidă pe șină DIN 35 mm |
| Grad de protecție | IP20 |
| Borne | cu cap fix și bridă culisantă |
| Capacitate bornă | 1 — 35 mm2 |
| Cuplul de strângere al bornelor | 2 — 3,5 Nm |
| Grosimea barei colectoare | 0,8 — 2 mm |
| Temperatura ambiantă | -30 — +70 °C |
| Altitudine | ≤ 2000 m |
| Umiditate relativă | ≤ 95 % |
| Rezistența la umiditate și căldură | clasa 2 |
| Grad de poluare | 3 |
| Clasă de instalare | III |
| Greutate | 0.12 kg (per pol) |

## Dimensiuni

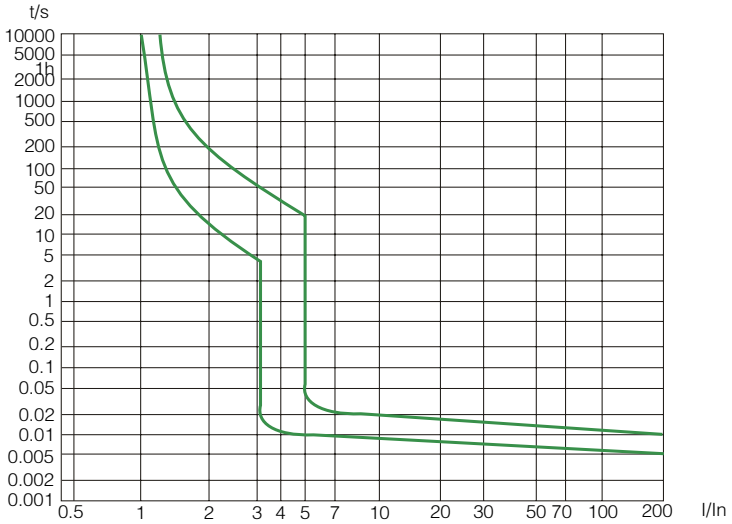



Informații comandă p. 17

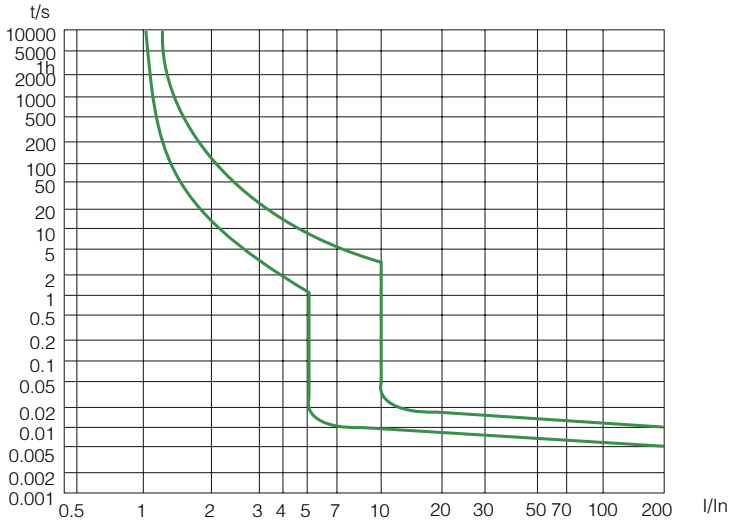
**Mini-întreruptoare automate, Ex9BN, 6 kA**

## Caracteristici de declanșare

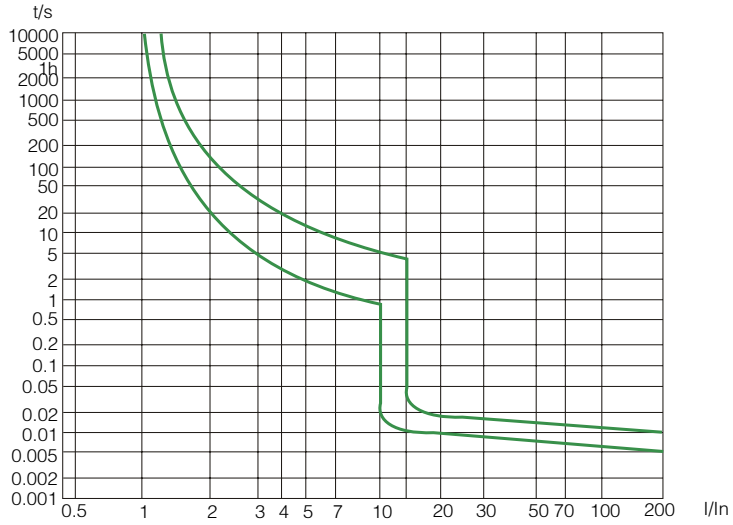
### Caracteristica B




### Caracteristica C




### Caracteristica D




Informații comandă p. 17

**Mini-întreruptoare automate, Ex9BN, 6 kA**

## Dependența caracteristicilor de declanșare de temperatura ambiantă

| T [°C] | $I_n$ (T) [A] | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 A | 2 A | 3 A | 4 A | 6 A | 8 A | 10 A | 13 A | 16 A | 20 A | 25 A | 32 A | 40 A | 50 A | 63 A |
| -30 | 1.3 | 2.5 | 3.8 | 5.1 | 7.6 | 10.2 | 13.6 | 16.8 | 20.5 | 25.3 | 31.1 | 40.5 | 51.0 | 64.0 | 82.0 |
| -25 | 1.2 | 2.4 | 3.7 | 4.9 | 7.4 | 9.9 | 13.4 | 16.5 | 20.0 | 25.0 | 30.5 | 39.8 | 50.0 | 63.0 | 80.7 |
| -20 | 1.2 | 2.4 | 3.6 | 4.8 | 7.3 | 9.7 | 13.1 | 16.3 | 19.8 | 24.5 | 30.0 | 39.2 | 49.2 | 62.0 | 79.2 |
| -15 | 1.2 | 2.4 | 3.5 | 4.8 | 7.2 | 9.5 | 12.8 | 15.9 | 19.4 | 24.0 | 29.5 | 38.5 | 48.4 | 60.8 | 77.8 |
| -10 | 1.2 | 2.3 | 3.5 | 4.7 | 7.1 | 9.3 | 12.5 | 15.7 | 19.0 | 23.7 | 29.0 | 37.9 | 47.5 | 59.8 | 76.3 |
| -5 | 1.2 | 2.3 | 3.4 | 4.7 | 7.0 | 9.2 | 12.3 | 15.4 | 18.7 | 23.2 | 28.5 | 37.2 | 46.7 | 58.6 | 74.7 |
| 0 | 1.1 | 2.2 | 3.4 | 4.5 | 6.8 | 9.0 | 12.0 | 15.0 | 18.4 | 22.8 | 28.0 | 36.5 | 45.8 | 57.4 | 73.2 |
| 5 | 1.1 | 2.2 | 3.3 | 4.4 | 6.6 | 8.9 | 11.7 | 14.7 | 18.0 | 22.4 | 27.5 | 35.8 | 45.0 | 56.3 | 71.6 |
| 10 | 1.1 | 2.1 | 3.3 | 4.3 | 6.5 | 8.7 | 11.4 | 14.3 | 17.6 | 21.9 | 27.0 | 35.0 | 44.0 | 55.0 | 70.0 |
| 15 | 1.1 | 2.1 | 3.2 | 4.3 | 6.4 | 8.5 | 11.0 | 14.0 | 17.2 | 21.5 | 26.5 | 34.3 | 43.0 | 53.8 | 68.3 |
| 20 | 1.0 | 2.1 | 3.2 | 4.2 | 6.3 | 8.3 | 10.7 | 13.7 | 16.8 | 21.0 | 26.0 | 33.6 | 42.0 | 52.6 | 66.6 |
| 25 | 1.0 | 2.0 | 3.0 | 4.1 | 6.2 | 8.2 | 10.4 | 13.4 | 16.4 | 20.5 | 25.5 | 32.8 | 41.0 | 51.3 | 64.8 |
| 30 | 1 | 2 | 3 | 4 | 6 | 8 | 10 | 13 | 16 | 20 | 25 | 32 | 40 | 50 | 63 |
| 35 | 0.99 | 2.00 | 3.00 | 3.9 | 5.9 | 7.9 | 9.9 | 12.8 | 16.0 | 20.0 | 25.0 | 32.0 | 39.0 | 49.0 | 62.0 |
| 40 | 0.97 | 1.90 | 2.90 | 3.9 | 5.8 | 7.8 | 9.7 | 12.5 | 15.0 | 19.0 | 24.0 | 31.0 | 39.0 | 48.0 | 61.0 |
| 45 | 0.95 | 1.90 | 2.80 | 3.8 | 5.7 | 7.7 | 9.5 | 12.2 | 15.0 | 19.0 | 24.0 | 30.0 | 38.0 | 47.0 | 60.0 |
| 50 | 0.93 | 1.90 | 2.80 | 3.7 | 5.6 | 7.6 | 9.3 | 12.0 | 15.0 | 19.0 | 23.0 | 30.0 | 37.0 | 46.0 | 58.0 |
| 55 | 0.91 | 1.80 | 2.80 | 3.6 | 5.5 | 7.5 | 9.0 | 11.7 | 14.0 | 18.0 | 23.0 | 29.0 | 36.0 | 44.0 | 57.0 |
| 60 | 0.91 | 1.80 | 2.70 | 3.5 | 5.4 | 7.2 | 8.8 | 11.5 | 14.0 | 18.0 | 22.0 | 28.0 | 35.0 | 42.0 | 55.0 |
| 65 | 0.91 | 1.80 | 2.70 | 3.5 | 5.3 | 7.1 | 8.6 | 11.2 | 13.0 | 17.0 | 21.0 | 28.0 | 34.0 | 40.0 | 52.0 |
| 70 | 0.91 | 1.80 | 2.70 | 3.5 | 5.3 | 6.9 | 8.6 | 11.0 | 13.0 | 17.0 | 21.0 | 27.0 | 33.0 | 38.0 | 50.0 |

## Pierderea de putere pe pol

| $I_n$ [A] | 1 A | 2 A | 3 A | 4 A | 6 A | 8 A | 10 A | 13 A | 16 A | 20 A | 25 A | 32 A | 40 A | 50 A | 63 A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P [W] | 1.8 | 2.1 | 1.9 | 2.0 | 2.5 | 1.2 | 1.8 | 3.1 | 2.3 | 2.4 | 3.5 | 3.8 | 4.7 | 4.7 | 6.2 |

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