## Standards

| IEC/EN 60947-1 | BS 4794 |
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| IEC/EN 60947-4-1 | NFC 63-110 |
| IEC/EN 60947-5-1 | CSA C22.2/14 |
| EN 50003 | VDE 0660 |
| EN 50005 | SEV 10254 |
| EN 50012 | JIS C8325 |
| UL 508 | JEM 1038 |
| NEMA ICS-1 | CENELEC HD 419 |

## Approvals

## Three and four pole minicontactors 6, 9 and 12A (AC3) 20A (AC1)

- Control circuit: Alternating current up to 600V

Direct current up to 440V

- Terminal numbering in accordance with EN 50012
- Fixing by clipping onto 35 mm DIN rail (EN 50022-35) or by screws
- Screws and fast-on terminals protected against accidental contact in accordance with VDE 0106 T. 100 and VBG4
- Versions: Ring terminal and printed circuit terminals
- Facility to mount instant and timed auxiliary contact blocks and voltage suppressor block
- Degree of protection IP20 (EN 60529).
- Maximum number of auxiliary contacts to be added: 6


## General data

|  |  | MC0... | MC1... | MC2... |
| :--- | :---: | ---: | :---: | :---: |
| Maximum number of poles |  | 4 | 4 | 4 |
| Rated thermal current (Ith) $\theta \leq 60^{\circ}(1)$ | (A) | 20 | 20 | 20 |
| Rated operational current le ${ }^{(2)}$ | (A) | 6 | 9 | 12 |
| (3x440V, 50/60Hz, AC3) |  |  |  |  |
| Rated insulation current Ui | (V) | 750 | 750 | 750 |
| Rated operational current Ue | (V) | 690 | 690 | 690 |

## Standard voltages

To complete the catalogue number, replace the symbol by the code corresponding to the voltage and frequency of the control circuit (other voltages on request)
Alternating current (V). Bifrequency coil

|  | 10 | 1 | 2 | 9 | 3 | 4 | 5 | 6 | 7 | 8 | 12 | 13 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| AC | 12 | 24 | 42 | 48 | 110 | 120 | 220 | 230 | 240 | 440 | 380 | 400 |


| $50 / 60 \mathrm{~Hz}$ |
| :--- | :--- |

Operating voltages limits with bifrequency coils:
With $60 \mathrm{~Hz}=0.85$ to $1.1 \times$ Us
With $50 \mathrm{~Hz}=0.8$ to $1.1 \times$ Us in continuous service (ED=100\%) with a maximum ambient temperature
of $40^{\circ} \mathrm{C}$

## Alternating current (V).

|  | A | E | G | K | M | N | S | U | W | Y |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AC |  |  | 48 | 115 |  | 220 | 260 | 380 | 415 | 500 |  |
| $\mathbf{5 0 H z}$ |  |  |  | 127 |  | 240 |  | 400 | 440 |  |  |
| $\mathbf{A C}$ | 6 | 32 | 60 |  | 208 | 240 |  | 440 | 480 | 600 |  |
| $\mathbf{6 0 H z}$ |  |  |  |  | 220 | 277 |  |  |  |  |  |

## Direct current (V)

| $\checkmark$ | A | B | C | D | E | F | G | H | 1 | J | K | L | N | 17 | R | S | 16 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DC | 6 | 12 | 32 | 24 | 36 | 42 | 48 | 60 | 72 | 110 | 120 | 125 | 220 | 230 | 240 | 250 | 440 |

## Direct current (V) - Wide voltage range

[^0]Three pole minicontactors

(1) To complete the catalogue number, replace the symbol by the code corresponding to the voltage and frequency of the control circuit (other voltages on request) (see C.2)
(2) Electrical endurance AC-1: MC0... $0.2 \times 10^{6}$ operations

MC1... $0.3 \times 10^{6}$ operations
MC2... $0.35 \times 10^{6}$ operations
(3) Electrical endurance $\mathrm{AC}-3: \quad \mathrm{MCO} \ldots(\mathrm{AA})=1.2 \times 10^{6}$ operations

MC1... $(9 \mathrm{~A})=0.85 \times 10^{6}$ operations
MC2 $\ldots(12 \mathrm{~A})=0.6 \times 10^{6}$ operations
(4) Terminal with wire $1.5 \mathrm{~mm}^{2}: \mathrm{le}=16 \mathrm{~A}$

Insulated terminal type B $2.8 \times 0.8$ and wire $1 \mathrm{~mm}^{2} \mathrm{le}=8 \mathrm{~A}$ in accordance with DIN 46247 .
(5) Fast-on $1 \times 6.3$ terminals on request (replace letter $\mathbf{F}$ by $\mathbf{H}$ in the catalogue number)


[^0]:    - WD WE WG WI WJ WN
    $\begin{array}{lllllll}\text { DC } & 24 & 33 & 48 & 72 & 110 & 220\end{array}$

