

Over current switch, 32A, 3p, D-Char, AC

Part no. Article no. Catalog No. FAZ-D32/3-NA 102274 FAZ-D32/3-NA



Similar to illustration

### **Delivery program**

| Basic function                                  |    |    | Miniature circuit breakers                         |
|---|----|----|--|
| Number of poles                                 |    |    | 3 pole   |
| Tripping characteristic                         |    |    | D  |
| Application                                     |    |    | Switchgear for export to North America (UL-listed) |
| Rated current                                   | In | А  | 32   |
| Rated switching capacity acc. to IEC/EN 60947-2 |    | kA | 15   |
| Product range                                   |    |    | FAZ-NA   |

### **Technical data**

| StandardsIn the second sec         |   |            |      |   |
|---|---|------------|------|---|
| Image: Add per adio and intermediate and per adio and intermediate and per adio andide adio and per adio adio andio adio adio adio adio ad       | Electrical                                      |            |      |   |
| Image: Provide and Provid | Standards                                       |            |      |   |
| VDC     VDC     4       Rated switching capacity acc. to IEC/EN 60947-2     KA     5       Characteristic     KA     5       Selectivity Class     KA     6, C       Lifespan     Vertains     5       Direction of incoming supply     Vertains     2000       Mechanical     Vertains     5       Standard front dimension     mm     5       Terminal protection     Mm     5       Mounting     Mm     5       Mounting     Mm     5       Derection of incoming supply     Mm     5       Mounting     Mm     5       Standard front dimension     Mm     5       Terminal protection     Mm     5       Mounting     Mm     5       Boge of Protection     Mm     5       Degree of Protection     Mm     5       Terminals top and bottom     F     Mm     5   | Rated operational voltage                       | Ue         | V    |   |
| Rated switching capacity acc. to IEC/EN 60947-2     Ka     Ka     Is       Characteristic     Selectivity Class     B, D, D     Selectivity Class     3       Selectivity Class     Operations     Seloure Selectivity Class     Seloure Seloure Selectivity Class     Seloure S  |   | Ue         | V AC | 277/480 Y                               |
| Characteristic   B, C, D     Selectivity Class   3     Lifespan   Operations   > 2000     Direction of incoming supply   arequired     Mechanical   mm   4     Standard front dimension   mm   15     Terminal protection   mm   15     Mounting width per pole   mm   15     Mounting   1.7   15     Pogree of Protection   mm   12   |   |            | V DC | 48                                      |
| Selectivity Class   Per ations   3     Lifespan   > 2000     Direction of incoming supply   as required     Mechanical  | Rated switching capacity acc. to IEC/EN 60947-2 |            | kA   | 15                                      |
| Lifespan   Operations   >2000     Direction of incoming supply   as required     Mechanical   stratument     Standard front dimension   mm   5     Enclosure height   mm   105     Terminal protection   mm   105     Mounting width per pole   mm   17.7     Mounting   Image: March State St  | Characteristic                                  |            |      | B, C, D                                 |
| Direction of incoming supply   Image: Sequired as required                            | Selectivity Class                               |            |      | 3                                       |
| Mechanical     mm     45       Standard front dimension     mm     45       Enclosure height     mm     105       Terminal protection     mm     17.7       Mounting width per pole     mm     16/EN 60715 top-hat rail       Degree of Protection     ICI Page and back-of-lead prode fitted)       Terminals top and bottom     Get Page and page terminals   | Lifespan  | Operations |      | > 20000                                 |
| Standard front dimension   mm   45     Enclosure height   mm   105     Terminal protection   Finger and back-of-hand proof to BGV A2     Mounting width per pole   mm   1.7     Mounting   EC/EN 60715 top-hat rail     Degree of Protection   Image: Standard from the standard  | Direction of incoming supply                    |            |      | as required                             |
| Enclosure height   mm   105     Terminal protection   Finger and back-of-hand proof to BGV A2     Mounting width per pole   mm   1.7     Mounting   EC/EN 60715 top-hat rail   1200     Degree of Protection   IP20, IP40 (when fitted)   1200, IP40 (when fitted)  | Mechanical                                      |            |      |   |
| Terminal protection Finger and back-of-hand proof to BGV A2   Mounting width per pole mm 17.7   Mounting IEC/EN 60715 top-hat rail   Degree of Protection IEO, IP40 (when fitted)   Terminals top and bottom IEO Image:  | Standard front dimension                        |            | mm   | 45                                      |
| Mounting width per pole mm T.7   Mounting IEC/EN 60715 top-hat rail   Degree of Protection IEO, IP40 (when fitted)   Terminals top and bottom IEO   | Enclosure height                                |            | mm   | 105                                     |
| Mounting IEC/EN 60715 top-hat rail   Degree of Protection IEC/EN 60715 top-hat rail   Terminals top and bottom Image: Comparison of the terminal sector of ter  | Terminal protection                             |            |      | Finger and back-of-hand proof to BGV A2 |
| Degree of Protection IP20, IP40 (when fitted)   Terminals top and bottom Twin-purpose terminals   | Mounting width per pole                         |            | mm   | 17.7                                    |
| Terminals top and bottom Twin-purpose terminals   | Mounting  |            |      | IEC/EN 60715 top-hat rail               |
|   | Degree of Protection                            |            |      | IP20, IP40 (when fitted)                |
| Mounting position As required   | Terminals top and bottom                        |            |      | Twin-purpose terminals                  |
|   | Mounting position                               |            |      | As required                             |

# Design verification as per IEC/EN 61439

| Technical data for design verification                                     |                   |    |   |
|--|-------------------|----|---|
| Rated operational current for specified heat dissipation                   | I <sub>n</sub>    | А  | 32  |
| Heat dissipation per pole, current-dependent                               | P <sub>vid</sub>  | W  | 0   |
| Equipment heat dissipation, current-dependent                              | P <sub>vid</sub>  | W  | 9.3   |
| Static heat dissipation, non-current-dependent                             | P <sub>vs</sub>   | W  | 0   |
| Heat dissipation capacity  | P <sub>diss</sub> | W  | 0   |
| Operating ambient temperature min.   |                   | °C | -25   |
| Operating ambient temperature max.   |                   | °C | 75  |
|  |                   |    | linear, per +1 °C, results in a 0.5% reduction of current carrying capacity |
| IEC/EN 61439 design verification   |                   |    |   |
| 10.2 Strength of materials and parts                                       |                   |    |   |
| 10.2.2 Corrosion resistance  |                   |    | Meets the product standard's requirements.                                  |
| 10.2.3.1 Verification of thermal stability of enclosures                   |                   |    | Meets the product standard's requirements.                                  |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat |                   |    | Meets the product standard's requirements.                                  |

| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects | Meets the product standard's requirements.   |
|--|--|
| 10.2.4 Resistance to ultra-violet (UV) radiation   | Meets the product standard's requirements.   |
| 10.2.5 Lifting   | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.2.6 Mechanical impact   | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.2.7 Inscriptions  | Meets the product standard's requirements.   |
| 10.3 Degree of protection of ASSEMBLIES  | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.4 Clearances and creepage distances   | Meets the product standard's requirements.   |
| 10.5 Protection against electric shock   | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.6 Incorporation of switching devices and components   | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.7 Internal electrical circuits and connections  | Is the panel builder's responsibility.   |
| 10.8 Connections for external conductors   | Is the panel builder's responsibility.   |
| 10.9 Insulation properties   |  |
| 10.9.2 Power-frequency electric strength   | Is the panel builder's responsibility.   |
| 10.9.3 Impulse withstand voltage   | Is the panel builder's responsibility.   |
| 10.9.4 Testing of enclosures made of insulating material   | Is the panel builder's responsibility.   |
| 10.10 Temperature rise   | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating   | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| 10.12 Electromagnetic compatibility  | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| 10.13 Mechanical function  | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |

## **Technical data ETIM 6.0**

Circuit breakers and fuses (EG000020) / Miniature circuit breaker (MCB) (EC000042)

Electric engineering, automation, process control engineering / Electrical installation, device / Miniature circuit breaker system (MCB) / Miniature circuit breaker (MCB) (ecl@ss8.1-27-14-19-01 [AAB905011])

| Release characteristic   |    | D       |
|--|----|---------|
| Number of poles (total)  |    | 3       |
| Number of protected poles                                      |    | 3       |
| Nominal rated current  | А  | 32      |
| Nominal rated voltage  | V  | 415     |
| Rated short-circuit breaking capacity Icn EN 60898 at 230 V    | kA | 0       |
| Rated short-circuit breaking capacity Icn EN 60898 at 400 V    | kA | 0       |
| Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V | kA | 15      |
| Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V | kA | 15      |
| Voltage type   |    | AC      |
| Current limiting class   |    | 3       |
| Frequency  | Hz | 50 - 60 |
| Concurrently switching N-neutral                               |    | No      |
| Suitable for flush-mounted installation                        |    | No      |
| Over voltage category  |    | 3       |
| Pollution degree   |    | 2       |
| Width in number of modular spacings                            |    | 3       |
| Built-in depth   | mm | 70.5    |
| Additional equipment possible                                  |    | Yes     |
| Degree of protection (IP)                                      |    | IP20    |
|  |    |         |

**Approvals** 

| Product StandardsIEC/EN 60947-2; UL 489; CSA-C22.2 No. 5-09; CE markingUL File No.E35139UL Category Control No.INOCSA File No.INOCSA File No.1432-01North America CertificationINOSpecially designed for North AmericaINOSpecially designed for North AmericaINOInternet </th <th>· · · · · · · · · · · · · · · · · · ·</th> <th></th> | · · · · · · · · · · · · · · · · · · · |  |
|--|---------------------------------------|--|
| UL Category Control No. DVQ   CSA File No. 204453   CSA Class No. 1432-01   North America Certification CSA Class No.  | Product Standards                     | IEC/EN 60947-2; UL 489; CSA-C22.2 No. 5-09; CE marking |
| CSA File No. 204453   CSA Class No. 1432-01   North America Certification CSA Certified  | UL File No.                           | E235139  |
| CSA Class No. 1432-01   North America Certification Listed, CSA certified  | UL Category Control No.               | DIVQ   |
| North America Certification UL listed, CSA certified   | CSA File No.                          | 204453   |
|  | CSA Class No.                         | 1432-01  |
| Specially designed for North America Yes, suitable as BCPD   | North America Certification           | UL listed, CSA certified                               |
|  | Specially designed for North America  | Yes, suitable as BCPD                                  |

| Suitable for                     |
|----------------------------------|
| Current Limiting Circuit-Breaker |
| Max. Voltage Rating              |
| Degree of Protection             |

Feeder circuits, branch circuits

Yes ≤ 32 A

IEC: IP20, UL/CSA Type: -

### **Characteristics**



