



VAF1-40 AFDD

Application

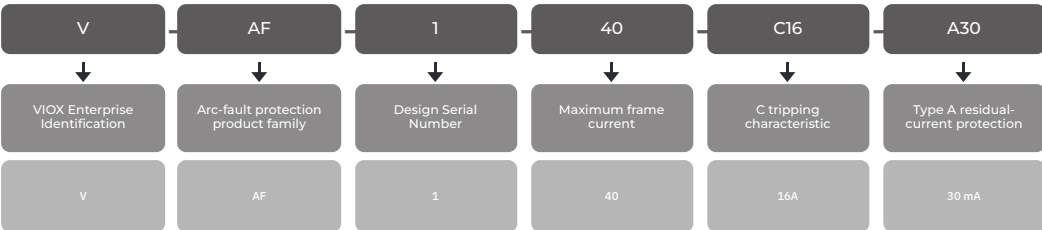
The VAF1-40 Arc Fault Detection Device combines arc-fault detection with residual-current, overload and short-circuit protection in a single device. Designed for AC 50 Hz circuits with a rated voltage of 240 V AC and rated currents up to 40 A. It provides Type A residual-current protection for sinusoidal AC and pulsating DC residual currents. Suitable for protecting final circuits in residential and commercial electrical installations against electrical fires, electric shock and overcurrent faults.

Product Features

- Compliant with IEC/EN 62606 and IEC/EN 61009-1.
- Rated from 6 A to 40 A with B and C tripping characteristics.
- Type B detects residual-current frequencies up to 1 kHz, while Type B+ extends detection uType A residual-current protection with 10 mA or 30 mA sensitivity.p to 20 kHz.

Ordering Code

MODEL CONFIGURATION REFERENCE



Technical Specifications

| Parameter                              | Specification                                                                       |
|----------------------------------------|-------------------------------------------------------------------------------------|
| VIOX model                             | VAF1-40                                                                             |
| Product configuration                  | AFDD with integrated Type A residual-current, overload and short-circuit protection |
| Applicable standards                   | IEC/EN 61009-1; IEC/EN 62606                                                        |
| Number of poles                        | 1P+N                                                                                |
| Modular width                          | 1 module (as stated in the source sample)                                           |
| Rated current (In)                     | 6, 10, 13, 16, 20, 25, 32, 40 A                                                     |
| Residual-current type                  | Type A                                                                              |
| Rated residual operating current (IΔn) | 10, 30 mA                                                                           |
| Minimum test-circuit operating voltage | 196 V                                                                               |
| Maximum test-circuit operating voltage | 253 V                                                                               |
| Overcurrent tripping characteristic    | B, C                                                                                |
| Operating frequency                    | 50 Hz                                                                               |
| Rated impulse withstand voltage (Uimp) | 4 kV                                                                                |
| Load-circuit specification             | Load-disconnect contact                                                             |
| Rated voltage (Ue)                     | 240 V AC                                                                            |
| Rated short-circuit current            | 6 kA                                                                                |
| Surge-current withstand strength       | 0.25 kA                                                                             |
| Maximum total rated switching capacity | 6 kA                                                                                |
| Rated insulation voltage (Ui)          | 250 V                                                                               |
| Power loss per current path            | 3 W                                                                                 |
| Short-circuit back-up fuse (SCPD)      | 100 A                                                                               |
| Back-up fuse type                      | gG                                                                                  |
| Overvoltage category                   | III                                                                                 |
| Terminal type                          | Screw-type terminals; top or bottom connection on the load circuit                  |
| Neutral conductor position             | Left or right                                                                       |
| Maximum connected cable length         | 70 m between the distribution board and the furthest socket outlet                  |
| Terminal clamping capacity             | 1–25 mm²                                                                            |
| Terminal tightening torque             | 2–2.4 N·m                                                                           |



VAF3-40M AFDD

Application

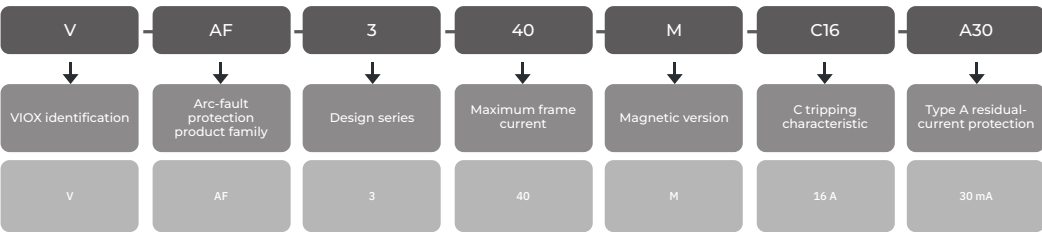
The VAF3-40M Magnetic Arc Fault Detection Device combines arc-fault detection with residual-current, overload and short-circuit protection. Designed for AC 50 Hz circuits with a rated voltage of 240 V AC and rated currents up to 40 A. The device incorporates Type A residual-current protection with 10 mA or 30 mA sensitivity. Suitable for residential and commercial final circuits requiring combined protection against arc faults, electric shock, overload and short circuits.

Product Features

- Magnetic version compliant with IEC/EN 62606 and IEC/EN 61009-1.
- Rated from 6 A to 40 A with B and C tripping characteristics.
- Type A residual-current protection with 10 mA or 30 mA sensitivity.

Ordering Code

MODEL CONFIGURATION REFERENCE



Technical Specifications

| Parameter                              | Specification                                                                       |
|----------------------------------------|-------------------------------------------------------------------------------------|
| VIOX model                             | VAF3-40M                                                                            |
| Product configuration                  | AFDD with integrated Type A residual-current, overload and short-circuit protection |
| Applicable standards                   | IEC/EN 61009-1; IEC/EN 62606                                                        |
| Number of poles                        | 1P+N                                                                                |
| Modular width                          | 1 module (as stated in the source sample)                                           |
| Rated current (In)                     | 6, 10, 13, 16, 20, 25, 32, 40 A                                                     |
| Residual-current type                  | Type A                                                                              |
| Rated residual operating current (IΔn) | 10, 30 mA                                                                           |
| Minimum test-circuit operating voltage | 196 V                                                                               |
| Maximum test-circuit operating voltage | 253 V                                                                               |
| Overcurrent tripping characteristic    | B, C                                                                                |
| Operating frequency                    | 50 Hz                                                                               |
| Rated impulse withstand voltage (Uimp) | 4 kV                                                                                |
| Load-circuit specification             | Load-disconnect contact                                                             |
| Rated voltage (Ue)                     | 240 V AC                                                                            |
| Rated short-circuit current            | 6 kA                                                                                |
| Surge-current withstand strength       | 0.25 kA                                                                             |
| Maximum total rated switching capacity | 6 kA                                                                                |
| Rated insulation voltage (Ui)          | 250 V                                                                               |
| Power loss per current path            | 3 W                                                                                 |
| Short-circuit back-up fuse (SCPD)      | 100 A                                                                               |
| Back-up fuse type                      | gG                                                                                  |
| Overvoltage category                   | III                                                                                 |
| Terminal type                          | Screw-type terminals; top or bottom connection on the load circuit                  |
| Neutral conductor position             | Left or right                                                                       |
| Maximum connected cable length         | 70 m between the distribution board and the furthest socket outlet                  |
| Terminal clamping capacity             | 1–25 mm²                                                                            |
| Terminal tightening torque             | 2–2.4 N·m                                                                           |