



Circuit-breaker, 4p, 4000A, fixed

**Part no.** IZM40N4-V40F  
**Catalog No.** 124358

**EL-Nummer (Norway)** 4357813

**Delivery program**

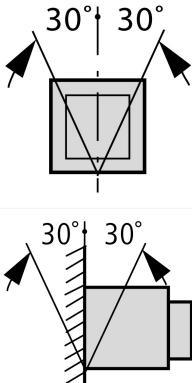
|  |                             |    |  |
|--|-----------------------------|----|--|
| Product range  |                             |    | Air circuit-breakers/switch-disconnectors                      |
| Product range  |                             |    | Open circuit-breakers  |
| Current Range  |                             |    | 4000 to 6300 A   |
| Protective function  |                             |    | Selective operation  |
| Installation type  |                             |    | Fixed  |
| Construction size  |                             |    | IZM40  |
| Standard/Approval  |                             |    | IEC  |
| Number of poles  |                             |    | 4 pole   |
| Degree of Protection   |                             |    | IP20, IP55 with protective cover, IP41 with door sealing frame |
| Rated current = rated uninterrupted current  | $I_n = I_u$                 | A  | 4000   |
| Rated ultimate short-circuit breaking capacity up to 440V/690V 42/42               | $I_{cu}$                    | kA | 85   |
| Rated service short-circuit breaking capacity up to 440V/690V 42/42                | $I_{cs}$                    | kA | 85   |
| Overload release, min.   | $I_r$                       | A  | 1600   |
| Overload release, max.   | $I_r$                       | A  | 4000   |
| Non-delayed  | $I_i = I_n \times \dots$    |    | 2 - 10, OFF  |
|   |                             |    |  |
| Delayed  | $I_{sd} = I_r \times \dots$ |    | 2 - 10   |
|  |                             |    |  |

**Notes**

Including rear connection main terminals and secondary terminal blocks according to ordered breaker options.

**Technical data**

**General**

|                              |          |    |  |
|------------------------------|----------|----|--|
| Standards                    |          |    | IEC/EN 60947   |
| Ambient temperature          |          |    |  |
| Storage                      | $\theta$ | °C | -25 - +70 (device with LCD-display -20 - +70)  |
| Operating (open)             |          | °C | -25 - +70 (device with LCD-display -20 - +70)  |
| Mounting position            |          |    |  |
| Utilization category         |          |    | B  |
| Degree of Protection         |          |    | IP20, IP55 with protective cover, IP41 with door sealing frame                       |
| Direction of incoming supply |          |    | as required  |

**Main conducting paths**

|   |             |   |      |
|---|-------------|---|------|
| Rated current = rated uninterrupted current | $I_n = I_u$ | A | 4000 |
| Rated uninterrupted current at 50 °C        | $I_u$       | A | 4000 |
| Rated uninterrupted current at 60 °C        | $I_u$       | A | 4000 |

|   |           |      |       |
|---|-----------|------|-------|
| Rated uninterrupted current at 70 °C                  | $I_U$     | A    | 3776  |
| Rated impulse withstand voltage                       | $U_{imp}$ | V AC | 12000 |
| Rated operational voltage                             | $U_e$     | V AC | 690   |
| Use in IT electrical power networks up to $U = 440$ V | $I_{IT}$  | kA   | 48    |
| Overvoltage category/pollution degree                 |           |      | III/3 |
| Rated insulation voltage                              | $U_i$     | V    | 1000  |

### Switching capacity

|   |              |    |       |
|---|--------------|----|-------|
| Rated short-circuit making capacity   | $I_{cm}$     |    |       |
| up to 440 V 50/60 Hz  | $I_{cm}$     | kA | 178   |
| up to 690 V 50/60 Hz  | $I_{cm}$     | kA | 137   |
| Rated short-time withstand current 50/60 Hz   |              |    |       |
| t = 1 s   | $I_{cw}$     | kA | 85    |
| t = 3 s   | $I_{cw}$     | kA | 65    |
| Rated short-circuit breaking capacity $I_{cn}$  | $I_{cn}$     |    |       |
| IEC/EN 60947 operating sequence $I_{cu}$ 0-t-CO   |              |    |       |
| up to 240 V 50/60 Hz  | $I_{cu}$     | kA | 85    |
| up to 440 V 50/60 Hz  | $I_{cu}$     | kA | 85    |
| up to 690 V 50/60 Hz  | $I_{cu}$     | kA | 65    |
| IEC/EN 60947 operating sequence $I_{cs}$ 0-t-CO-t-CO                                    |              |    |       |
| up to 240 V 50/60 Hz  | $I_{cs}$     | kA | 85    |
| up to 440 V 50/60 Hz  | $I_{cs}$     | kA | 85    |
| up to 690 V 50/60 Hz  | $I_{cs}$     | kA | 65    |
| Operating times   |              |    |       |
| Closing delay via spring release  |              | ms | 30    |
| Break times   |              | ms | 40    |
| Total opening delay via shunt release   |              | ms | 35    |
| Total opening delay via undervoltage release  |              | ms | 35/70 |
| Total opening delay on non-delayed short-circuit release (up to complete arc quenching) |              | ms | 35    |
| Maximum operating frequency   | Operations/h |    | 60    |
| Heat dissipation at rated current $I_n$   |              |    |       |
| Fixed mounting  |              | W  | 560   |
| Withdrawable units (switch with cassette)   |              | W  | 1100  |

### Weight

|                |  |    |     |
|----------------|--|----|-----|
| Fixed mounting |  |    |     |
| 3-pole         |  | kg | 83  |
| 4-pole         |  | kg | 105 |
| Withdrawable   |  |    |     |
| 3-pole         |  | kg | 98  |
| 4-pole         |  | kg | 121 |
| Cassette       |  |    |     |
| 3 pole         |  | kg | 60  |
| 4 pole         |  | kg | 73  |

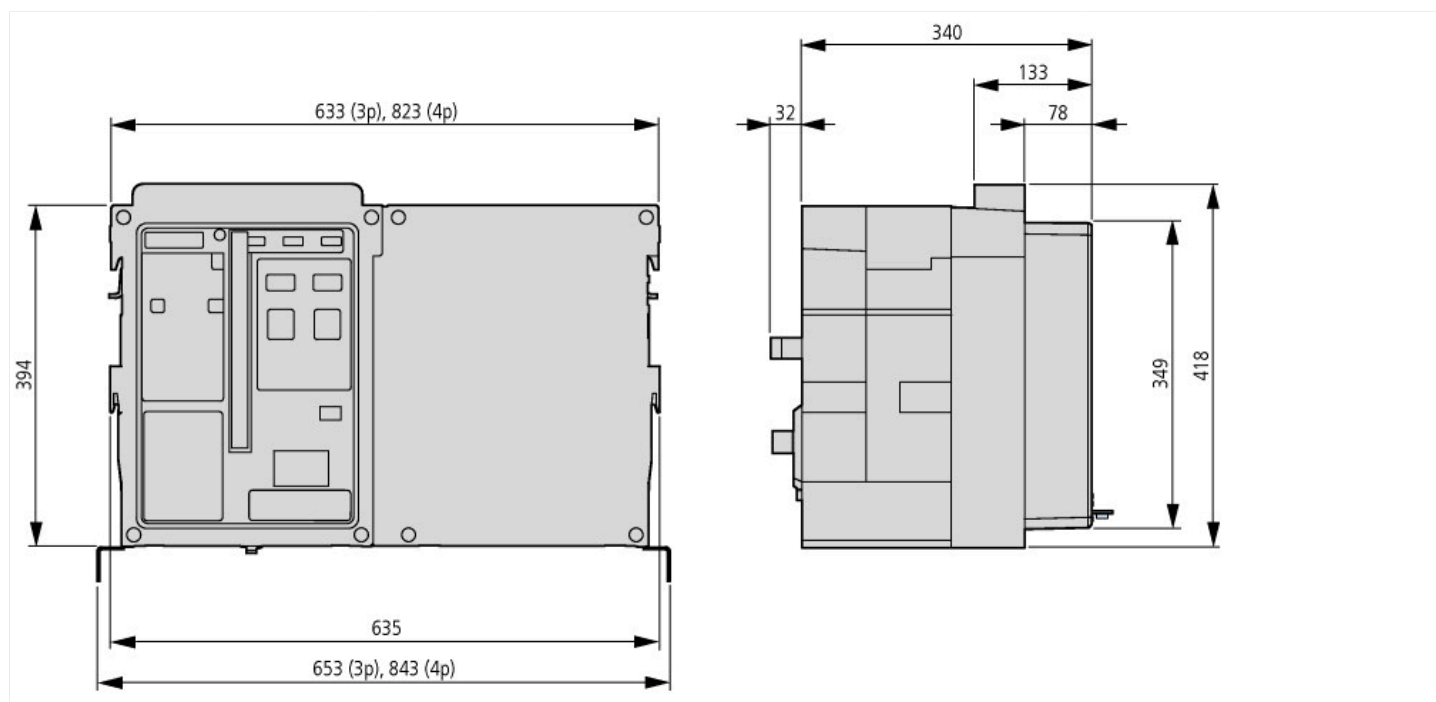
### Terminal capacities

|  |  |    |   |
|--|--|----|---|
| Copper bar                             |  |    |   |
| Fixed mounting                         |  |    |   |
| Black                                  |  | mm | 4 x 10 x 100  |
| Withdrawable units                     |  |    |   |
| Black                                  |  | mm | 4 x 10 x 100  |
|  |  |    | Permissible continuous current for circuit-breakers operating in switchboards at various internal ambient temperatures. The switchboard's internal ambient temperature should be estimated using the calculation methods of IEC regulation. |
| Other technical data (sheet catalogue) |  |    | Tripping characteristics for universal and selective protection<br>Notes - tripping characteristics   |

## Design verification as per IEC/EN 61439

| Technical data for design verification |    |     |
|--|----|-----|
| Operating ambient temperature max.     | °C | -25 |
| Operating ambient temperature max.     | °C | 70  |

## Dimensions



## Additional product information (links)

|   |   |
|---|---|
| Notes - tripping characteristics                                | <a href="http://ecat.moeller.net/flip-cat/?edition=HPLEN&amp;startpage=18.88">http://ecat.moeller.net/flip-cat/?edition=HPLEN&amp;startpage=18.88</a> |
| Tripping characteristics for universal and selective protection | <a href="http://ecat.moeller.net/flip-cat/?edition=HPLEN&amp;startpage=18.79">http://ecat.moeller.net/flip-cat/?edition=HPLEN&amp;startpage=18.79</a> |