**Circuit-breaker, 4p, 2500A, fixed**

**Part no.** IZM32H4-P25F
**Article no.** 124153

## Delivery programme

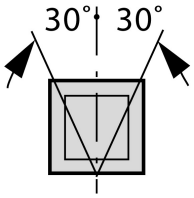
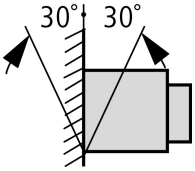
| | | | |
|---|---|---|---|
| Product range | | | Air circuit-breakers/switch-disconnectors |
| Product range | | | Open circuit-breakers |
| Current Range | | | over 4000 A |
| Protective function | | | Universal protection and power measurement |
| Installation type | | | Fixed |
| Construction size | | | IZM32 |
| Release system | | | Electronic release |
| 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 | 2500 |
| Breaking capacity Icu = Ics to 440 V 50/60 Hz | $I_{cu}$ | kA | 100 |
| Breaking capacity Ics to 440 V 50/60 Hz | $I_{cs}$ | kA | 100 |
| Overload release, min. | $I_r$ | A | 1000 |
| Overload release, max. | $I_r$ | A | 2500 |
| Non-delayed | $I_i = I_n$ x … | | 2 - 10, OFF |
| Delayed | $I_{sd} = I_r$ x … | | 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 | θ | °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 | 2500 |
| Rated uninterrupted current at 50 °C | $I_u$ | A | 2500 |
| Rated uninterrupted current at 60 °C | $I_u$ | A | 2500 |
| Rated uninterrupted current at 70 °C | $I_u$ | A | 2500 |

| | | | |
|---|---|---|---|
| Rated impulse withstand voltage | $U_{imp}$ | V AC | 8000 |
| Rated operational voltage | $U_e$ | V AC | 690 |
| Use in IT electrical power networks up to U = 440 V | $I_{IT}$ | kA | 39 |
| 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 | 210 |
| up to 690 V 50/60 Hz | $I_{cm}$ | kA | 179 |
| 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 $I_{cu}$ O-t-CO | | | |
| up to 240 V 50/60 Hz | $I_{cu}$ | kA | 100 |
| up to 440 V 50/60 Hz | $I_{cu}$ | kA | 100 |
| up to 690 V 50/60 Hz | $I_{cu}$ | kA | 85 |
| IEC/EN 60947 operating sequence $I_{cs}$ O-t-CO-t-CO | | | |
| up to 240 V 50/60 Hz | $I_{cs}$ | kA | 100 |
| up to 440 V 50/60 Hz | $I_{cs}$ | kA | 100 |
| up to 690 V 50/60 Hz | $I_{cs}$ | kA | 85 |
| 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 | 200 |
| Withdrawable units (switch with cassette) | | W | 500 |

## Weight

| | | | |
|---|---|---|---|
| Fixed mounting | | | |
| 3-pole | | kg | 70 |
| 4-pole | | kg | 89 |
| Withdrawable | | | |
| 3-pole | | kg | 88 |
| 4-pole | | kg | 115 |
| Cassette | | | |
| 3 pole | | kg | 58 |
| 4 pole | | kg | 60 |

## Terminal capacities

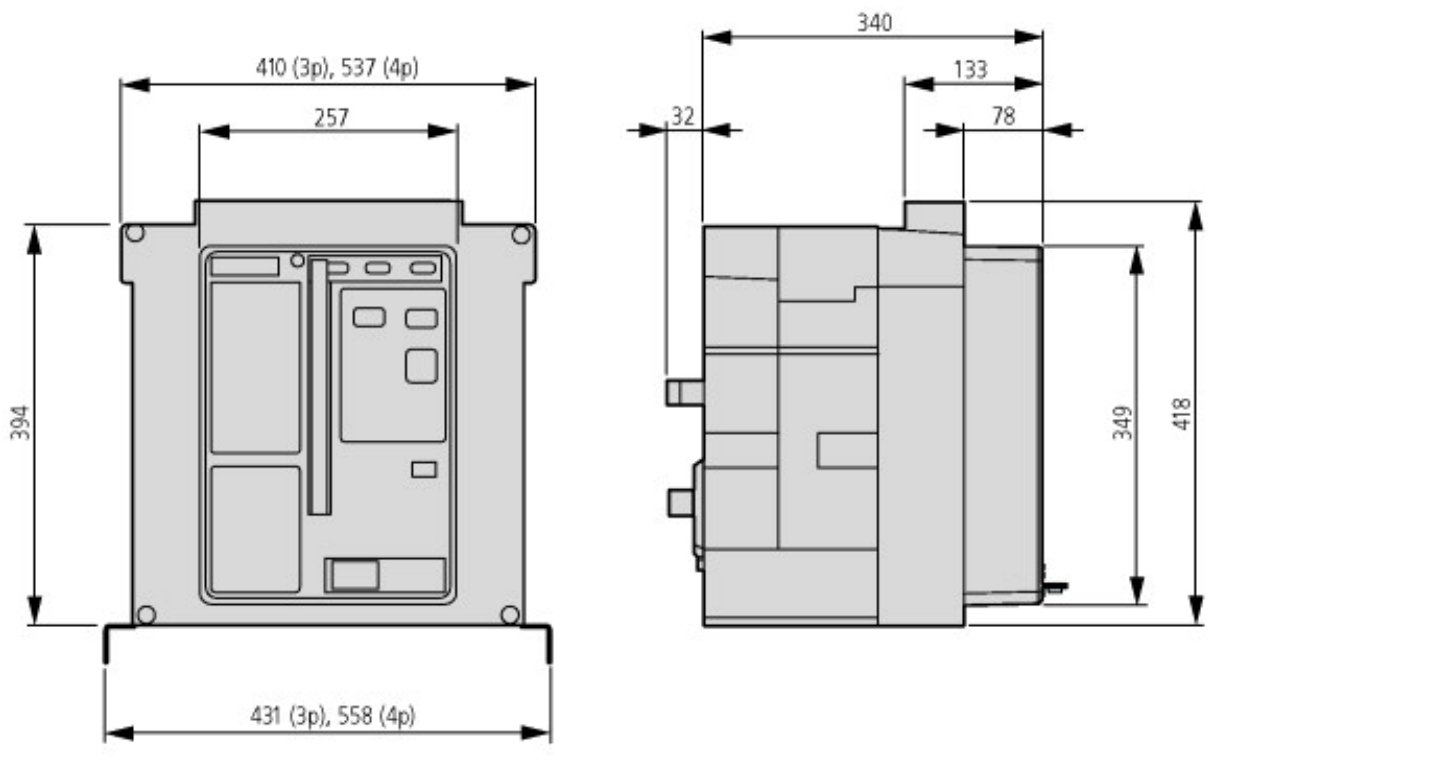
| | | | |
|---|---|---|---|
| Copper bar | | | |
| Fixed mounting | | | |
| Black | | mm | 4 x 5 x 100 |
| Withdrawable units | | | |
| Black | | mm | 4 x 5 x 100 |
| | | | Permissible continuous current for circuit-breakers operating in switchboards at various internal ambient temperatures. The switchboard's internal ambient temperature should be estimated using the calculation methods of IEC regulation. |
| Other technical data (sheet catalogue) | | | Tripping characteristics for universal protection and power quality<br>Notes - tripping characteristics |

# Design verification as per IEC/EN 61439

| | | | |
|---|---|---|---|
| Technical data for design verification | | | |

| | | |
|---|---|---|
| Operating ambient temperature min. | °C | -25 |
| Operating ambient temperature max. | °C | 70 |

## Dimensions




## Additional product information (links)

| | |
|---|---|
| Notes - tripping characteristics | http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=18.88 |
| Tripping characteristics for universal protection and power quality | http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=18.82 |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