# PEM1-32/63
# PEM2-63 Series

AC Miniature Circuit Breaker

PROJOY electric

– Switch To Safety! –



## High Craftsmanship AND High Standards

- Flame retardant material
- Long life
- Fast arc extinguishing
- All kinds
- -30℃~+70℃ Ambient temperature range
- Non-polar design



## Technical data

### PEM1-32

| Electrical standards | EN/IEC60898-1 |
|---|---|
| Pole | 1P+N |
| Rated Current | 6A, 10A, 16A, 20A, 25A, 32A |
| Rated Voltage | 230V |
| Rated Frequency | 50/60Hz |
| Rated Breaking Capacity | Icn=4.5kA,Ics=4.5kA |
| Tripping Characteristics | Type B,C,D |
| Connecting fuse | 80A |
| Electrical Life | 8000 times |
| Ingress Protection | Ip20 |
| Terminal Connection Type | Cable / U-type busbar / Plug-type busbar |
| Ambient Temperature | −30～+70°C |
| Storage Temperature | −30～+70°C |
| Cable Terminal Dimensions top/bottom | 6mm² |
| Cable Terminal Dimensions top/bottom | 3.0N·m |
| Installation Method | Din Rail (35mm), with fast clamping device |

### PEM1-63

| Electrical standards | EN/IEC60898-1 |
|---|---|
| Pole | 1P, 2P, 3P, 4P |
| Rated Current | 1A, 3A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A |
| Rated Voltage | 230/400V~ |
| Rated Frequency | 50/60Hz |
| Rated Breaking Capacity | Icn=10kA,Ics=7.5kA |
| Tripping Characteristics | Type B, (3In~5In) ,Type C, (5In~10In) ,Type D, (10In~20In) |
| Connecting fuse | 80A |
| Rated Impulse Withstand Voltage ( 1.2/50 ) Uimp | 6kV |
| Electrical Life | 8000 times |
| Mechanical Life | 20000 times |
| Ingress Protection | IP20 |
| Terminal Connection Type | Cable / U busbar / Plug busbar |
| Ambient Temperature | −30～+70°C |
| Storage Temperature | −30～+70°C |
| Cable Terminal Dimensions top/bottom | 16mm² |
| Tightening Torque | 3.0 N·m |
| Installation Method | Din Rail (35mm), with fast clamping device |

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# Technical data

PEM2-63

| Electrical standards | EN/IEC60898-1 |
|---|---|
| Pole | 1P, 2P, 3P, 4P |
| Rated Current | 1A, 3A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A |
| Rated Voltage | 230/400V~ |
| Rated Frequency | 50/60Hz |
| Rated Breaking Capacity | Icn=6kA,Ics=6kA |
| Tripping Characteristics | Type B, (3In~5In),Type C, (5In~10In),Type D, (10In~20In) |
| Connecting fuse | 80A |
| Rated Impulse Withstand Voltage ( 1.2/50 ) Uimp | 6kV |
| Electrical Life | 8000 times |
| Mechanical Life | 20000 times |
| Ingress Protection | IP20 |
| Terminal Connection Type | Cable / U busbar / Plug busbar |
| Ambient Temperature | -5～+40℃ |
| Storage Temperature | -30～+70℃ |
| Cable Terminal Dimensions top/bottom | 16mm² |
| Tightening Torque | 3.0 N·m |
| Installation Method | Din Rail (35mm), with fast clamping device |

# Reduction coefficient

| Temperature reduction coefficient | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Temperature | -30℃ | -25℃ | -20℃ | -15℃ | -10℃ | -5℃ | 0℃ | 5℃ | 10℃ | 15℃ | 20℃ | 30℃ | 35℃ | 40℃ | 45℃ | 50℃ | 55℃ | 60℃ | 65℃ | 70℃ |
| The rated work current coefficient | 1.242 | 1.223 | 1.204 | 1.182 | 1.161 | 1.143 | 1.127 | 1.103 | 1.079 | 1.063 | 1.047 | 1 | 0.984 | 0.968 | 0.952 | 0.922 | 0.904 | 0.891 | 0.872 | 0.844 |

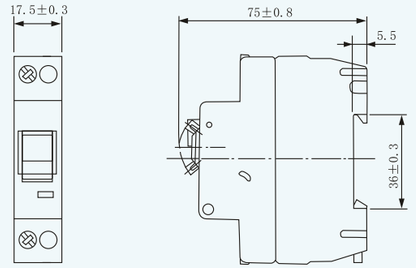
| Altitude reduction coefficient | | | | |
|---|---|---|---|---|
| Altitude m | 2000 | 3000 | 4000 | 5000 |
| The rated working current coefficient | 1 | 0.96 | 0.91 | 0.86 |
| The rated work voltage coefficient | 1 | 1 | 1 | 1 |
| Rated industrial frequency resistance coefficient | 1 | 0.9 | 0.82 | 0.71 |
| The rated impact tolerance voltage coefficient | 1 | 0.9 | 0.82 | 0.71 |
| The rated ultimate short-circuit capacity and electronic life coefficient | 1 | 0.82 | 0.7 | 0.6 |

| MCB Side -by -side installation reduction coefficient | | | | | |
|---|---|---|---|---|---|
| Number of MCBs | 1 | 2～3 | 4～5 | 6～8 | 9～10 |
| In≤25A coefficient | 1 | 0.96 | 0.9 | 0.8 | 0.7 |
| 32A≤In≤63A coefficient | 1 | 0.92 | 0.8 | 0.7 | 0.6 |
| 80A≤In≤125A coefficient | 1 | 0.9 | 0.8 | 0.7 | / |

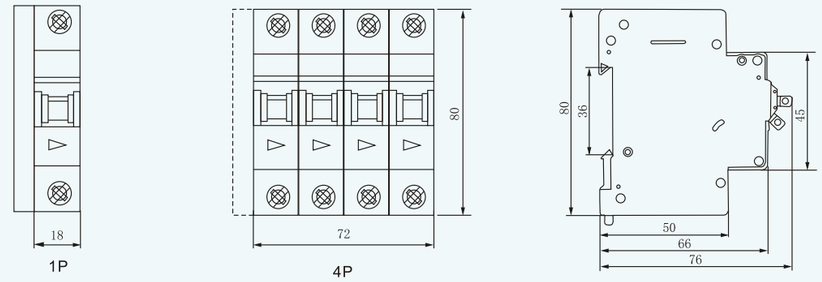
# Dimensions

PEM1-32

(Unit: mm)




PEM1/PEM2-63




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