

xEffect - Industrial Switchgear Range Miniature Circuit Breakers AZ



Catalog



Powering Business Worldwide

SG51412



Description

- High-quality miniature circuit breakers for industrial and commercial applications
- Contact position indicator red - green
- Accessories suitable for subsequent installation
- Rated currents up to 125 A
- Tripping characteristics B, C, D
- Rated breaking capacity up to 25 kA according to EN 60947-2
- Classified for the use in rail rolling stock
- Independent switching contacts
- With isolator function, meets the requirements of insulation co-ordination, distance between contacts ≥ 4 mm, for secure isolation

Rated current I_n (A)

Type Designation

Article No.

Units per package

SG51212



Characteristic B

1-pole

| | | | |
|-----|---------|--------|----|
| 20 | AZ-B20 | 174480 | 12 |
| 25 | AZ-B25 | 174481 | 12 |
| 32 | AZ-B32 | 174482 | 12 |
| 40 | AZ-B40 | 174483 | 12 |
| 50 | AZ-B50 | 174484 | 12 |
| 63 | AZ-B63 | 174485 | 12 |
| 80 | AZ-B80 | 174486 | 12 |
| 100 | AZ-B100 | 174487 | 12 |
| 125 | AZ-B125 | 174488 | 12 |

SG51312



2-poles

| | | | |
|-----|-----------|--------|---|
| 20 | AZ-2-B20 | 174493 | 6 |
| 25 | AZ-2-B25 | 174494 | 6 |
| 32 | AZ-2-B32 | 174495 | 6 |
| 40 | AZ-2-B40 | 174496 | 6 |
| 50 | AZ-2-B50 | 174497 | 6 |
| 63 | AZ-2-B63 | 174498 | 6 |
| 80 | AZ-2-B80 | 174499 | 6 |
| 100 | AZ-2-B100 | 174500 | 6 |
| 125 | AZ-2-B125 | 174501 | 6 |

wa_sg00314



3-poles

| | | | |
|-----|-----------|--------|---|
| 20 | AZ-3-B20 | 174506 | 4 |
| 25 | AZ-3-B25 | 174507 | 4 |
| 32 | AZ-3-B32 | 174508 | 4 |
| 40 | AZ-3-B40 | 174509 | 4 |
| 50 | AZ-3-B50 | 174510 | 4 |
| 63 | AZ-3-B63 | 174511 | 4 |
| 80 | AZ-3-B80 | 174512 | 4 |
| 100 | AZ-3-B100 | 174513 | 4 |
| 125 | AZ-3-B125 | 174514 | 4 |

wa_sg00214



3+N-poles

| | | | |
|-----|------------|--------|---|
| 20 | AZ-3N-B20 | 174519 | 3 |
| 25 | AZ-3N-B25 | 174520 | 3 |
| 32 | AZ-3N-B32 | 174521 | 3 |
| 40 | AZ-3N-B40 | 174522 | 3 |
| 50 | AZ-3N-B50 | 174523 | 3 |
| 63 | AZ-3N-B63 | 174524 | 3 |
| 80 | AZ-3N-B80 | 174525 | 3 |
| 100 | AZ-3N-B100 | 174526 | 3 |
| 125 | AZ-3N-B125 | 174527 | 3 |

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4-poles

| | | | |
|-----|-----------|--------|---|
| 20 | AZ-4-B20 | 174532 | 3 |
| 25 | AZ-4-B25 | 174533 | 3 |
| 32 | AZ-4-B32 | 174534 | 3 |
| 40 | AZ-4-B40 | 174535 | 3 |
| 50 | AZ-4-B50 | 174536 | 3 |
| 63 | AZ-4-B63 | 174537 | 3 |
| 80 | AZ-4-B80 | 174538 | 3 |
| 100 | AZ-4-B100 | 174539 | 3 |
| 125 | AZ-4-B125 | 174540 | 3 |

1.4

Miniature Circuit Breakers

xEffect

AZ Miniature Circuit Breakers

Rated
current
 I_n (A)

Type
Designation

Article No.

Units per
package

Characteristic C

SG51212



1-pole

| | | | |
|-----|---------|--------|----|
| 20 | AZ-C20 | 211769 | 12 |
| 25 | AZ-C25 | 211774 | 12 |
| 32 | AZ-C32 | 211779 | 12 |
| 40 | AZ-C40 | 211784 | 12 |
| 50 | AZ-C50 | 211789 | 12 |
| 63 | AZ-C63 | 211794 | 12 |
| 80 | AZ-C80 | 211799 | 12 |
| 100 | AZ-C100 | 211804 | 12 |
| 125 | AZ-C125 | 211809 | 12 |

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2-poles

| | | | |
|-----|-----------|--------|---|
| 20 | AZ-2-C20 | 211770 | 6 |
| 25 | AZ-2-C25 | 211775 | 6 |
| 32 | AZ-2-C32 | 211780 | 6 |
| 40 | AZ-2-C40 | 211785 | 6 |
| 50 | AZ-2-C50 | 211790 | 6 |
| 63 | AZ-2-C63 | 211795 | 6 |
| 80 | AZ-2-C80 | 211800 | 6 |
| 100 | AZ-2-C100 | 211805 | 6 |
| 125 | AZ-2-C125 | 211810 | 6 |

wa_sg00314



3-poles

| | | | |
|-----|-----------|--------|---|
| 20 | AZ-3-C20 | 211771 | 4 |
| 25 | AZ-3-C25 | 211776 | 4 |
| 32 | AZ-3-C32 | 211781 | 4 |
| 40 | AZ-3-C40 | 211786 | 4 |
| 50 | AZ-3-C50 | 211791 | 4 |
| 63 | AZ-3-C63 | 211796 | 4 |
| 80 | AZ-3-C80 | 211801 | 4 |
| 100 | AZ-3-C100 | 211806 | 4 |
| 125 | AZ-3-C125 | 211811 | 4 |

wa_sg00214



3+N-poles

| | | | |
|-----|------------|--------|---|
| 20 | AZ-3N-C20 | 211773 | 3 |
| 25 | AZ-3N-C25 | 211778 | 3 |
| 32 | AZ-3N-C32 | 211783 | 3 |
| 40 | AZ-3N-C40 | 211788 | 3 |
| 50 | AZ-3N-C50 | 211793 | 3 |
| 63 | AZ-3N-C63 | 211798 | 3 |
| 80 | AZ-3N-C80 | 211803 | 3 |
| 100 | AZ-3N-C100 | 211808 | 3 |
| 125 | AZ-3N-C125 | 211813 | 3 |

SG51412



4-poles

| | | | |
|-----|-----------|--------|---|
| 20 | AZ-4-C20 | 211772 | 3 |
| 25 | AZ-4-C25 | 211777 | 3 |
| 32 | AZ-4-C32 | 211782 | 3 |
| 40 | AZ-4-C40 | 211787 | 3 |
| 50 | AZ-4-C50 | 211792 | 3 |
| 63 | AZ-4-C63 | 211797 | 3 |
| 80 | AZ-4-C80 | 211802 | 3 |
| 100 | AZ-4-C100 | 211807 | 3 |
| 125 | AZ-4-C125 | 211812 | 3 |

Rated
current
 I_n (A)

Type
Designation

Article No.

Units per
package

Characteristic D

SG51212



1-pole

| | | | |
|-----|---------|--------|----|
| 20 | AZ-D20 | 174489 | 12 |
| 25 | AZ-D25 | 174490 | 12 |
| 32 | AZ-D32 | 174491 | 12 |
| 40 | AZ-D40 | 174492 | 12 |
| 50 | AZ-D50 | 211814 | 12 |
| 63 | AZ-D63 | 211818 | 12 |
| 80 | AZ-D80 | 211822 | 12 |
| 100 | AZ-D100 | 211826 | 12 |

SG51312



2-poles

| | | | |
|-----|-----------|--------|---|
| 20 | AZ-2-D20 | 174502 | 6 |
| 25 | AZ-2-D25 | 174503 | 6 |
| 32 | AZ-2-D32 | 174504 | 6 |
| 40 | AZ-2-D40 | 174505 | 6 |
| 50 | AZ-2-D50 | 211815 | 6 |
| 63 | AZ-2-D63 | 211819 | 6 |
| 80 | AZ-2-D80 | 211823 | 6 |
| 100 | AZ-2-D100 | 211827 | 6 |

wa_sg00314



3-poles

| | | | |
|-----|-----------|--------|---|
| 20 | AZ-3-D20 | 174515 | 4 |
| 25 | AZ-3-D25 | 174516 | 4 |
| 32 | AZ-3-D32 | 174517 | 4 |
| 40 | AZ-3-D40 | 174518 | 4 |
| 50 | AZ-3-D50 | 211816 | 4 |
| 63 | AZ-3-D63 | 211820 | 4 |
| 80 | AZ-3-D80 | 211824 | 4 |
| 100 | AZ-3-D100 | 211828 | 4 |

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3+N-poles

| | | | |
|-----|------------|--------|---|
| 20 | AZ-3N-D20 | 174528 | 3 |
| 25 | AZ-3N-D25 | 174529 | 3 |
| 32 | AZ-3N-D32 | 174530 | 3 |
| 40 | AZ-3N-D40 | 174531 | 3 |
| 50 | AZ-3N-D50 | 211817 | 3 |
| 63 | AZ-3N-D63 | 211821 | 3 |
| 80 | AZ-3N-D80 | 211825 | 3 |
| 100 | AZ-3N-D100 | 211829 | 3 |




SG51412



4-poles

| | | | |
|-----|-----------|--------|---|
| 20 | AZ-4-D20 | 174541 | 3 |
| 25 | AZ-4-D25 | 174542 | 3 |
| 32 | AZ-4-D32 | 174543 | 3 |
| 40 | AZ-4-D40 | 174544 | 3 |
| 50 | AZ-4-D50 | 174545 | 3 |
| 63 | AZ-4-D63 | 174546 | 3 |
| 80 | AZ-4-D80 | 174547 | 3 |
| 100 | AZ-4-D100 | 174548 | 3 |

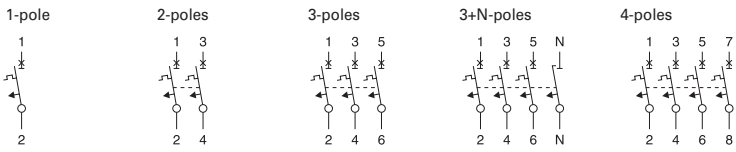
Accessories for Miniature Circuit Breakers AZ

| | Operational voltage range V~ | Type Designation | Article No. | Units per package |
|---|---|---------------------|-------------|----------------------|
|  | Shunt trip release, Shunt trip release-Kit | | | |
| | 110-415/Shunt trip release | Z-LHASA/230 | 248442 | 8 |
| | 12-60/Shunt trip release | Z-LHASA/24 | 248441 | 8 |
| | 110-415/Shunt trip release-Kit | Z-BHASA/230 | 248445 | 8 |
| | 12-60/Shunt trip release-Kit | Z-BHASA/24 | 248444 | 8 |
| | Function | Type Designation | Article No. | Units per package |
|  | Auxiliary switch | | | |
| | 1NO+1NC | Z-LHK | 248440 | 10/100 |
| | Benennung | Type Designation | Article No. | Units per package |
|  | Switching interlock | | | |
| | Switching interlock | LH-SPL | 285752 | 1 |
| | Switching interlock | LHSP-E | 215999 | 1 |
| | Switching interlock | LHSP-A | 216000 | 1 |

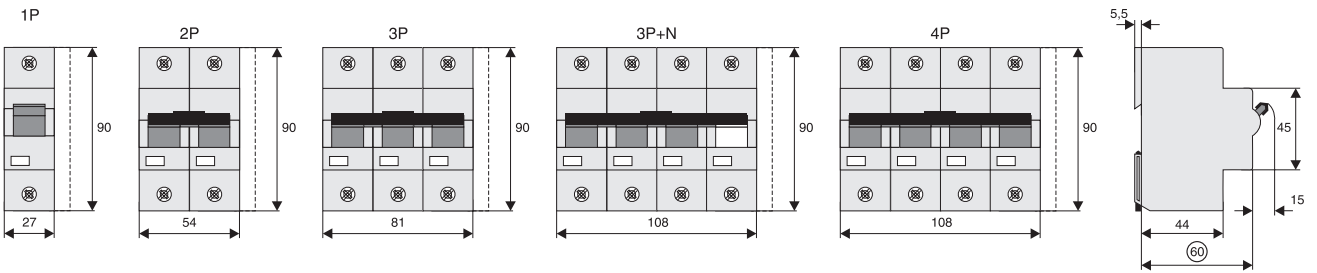
Technical Data

| AZ | |
|--|---|
| Electrical | |
| Standards | IEC/EN 60947-2 |
| Classified according to | IEC 61373, EN 45545-2 |
| Current test marks as printed onto the device | |
| Rated operating voltage | 230/400 V AC 60 V DC (per pole) |
| Limiting breaking capacity according to IEC/EN 60947-2 | |
| Characteristic B | $I_n = 20-63 \text{ A}: 25 \text{ kA}$ $I_n = 80-100 \text{ A}: 20 \text{ kA}$ $I_n = 125 \text{ A}: 15 \text{ kA}$ |
| Characteristic C | $I_n = 20-63 \text{ A}: 25 \text{ kA}$ $I_n = 80-100 \text{ A}: 20 \text{ kA}$ $I_n = 125 \text{ A}: 15 \text{ kA}$ |
| Characteristic D | $I_n = 20-63 \text{ A}: 25 \text{ kA}$ $I_n = 80 \text{ A}: 20 \text{ kA}$ $I_n = 100 \text{ A}: 15 \text{ kA}$ |
| Characteristic | B, C, D |
| Max. back-up fuse | 200 A gL/gG |
| Selectivity class | Compliant with class 3 |
| Rated insulation voltage | 440 V |
| Peak withstand voltage | $U_{imp} = 4 \text{ kV}$ |
| Endurance | >10,000 Operations |
| Direction of incoming supply | Any |
| Mechanical | |
| Frame size | 45 mm |
| Device height | 90 mm |
| Width per pole | 27 mm (1.5MU) |
| Terminal protection | Finger and hand touch safe according to BGV A2 |
| Mounting | Quick fastening with 2 lock-in positions on DIN rail according to IEC/EN 60715 |
| Terminals top and bottom | Lift terminals |
| Terminal capacity | 2.5 – 50 mm ² (solid) |
| Operation temperature | -25 °C up to +55 °C |
| Storage- and transport temperature | -40 °C up to +75 °C |
| Degree of protection | IP20 |
| Degree of protection, built-in | IP40 |
| Terminal protection | finger and hand touch safe, DGUV VS3, EN 50274 |

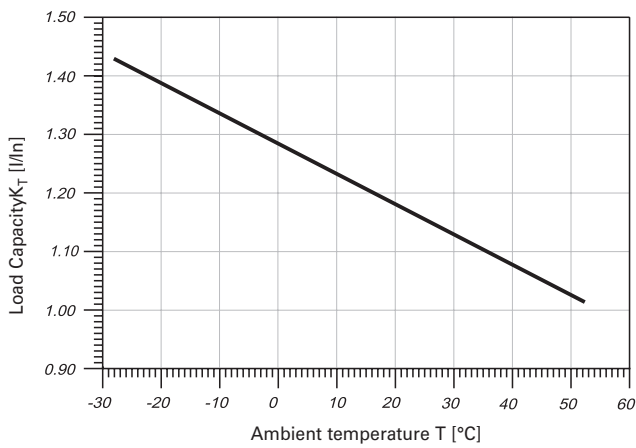
Connection diagram



Dimensions (mm)



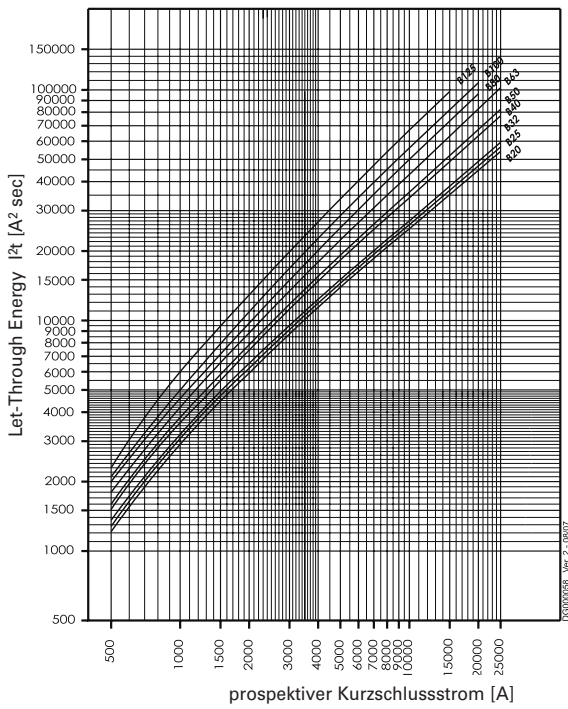
Influence of Ambient Temperature AZ



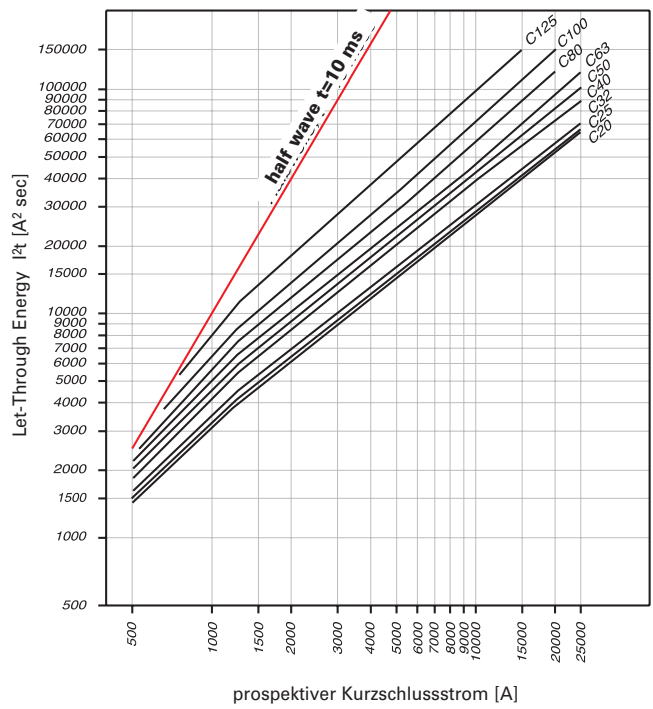
Permitted permanent load at ambient temperature T [°C] and n devices: $I_{DL} = I_n K_T(T) K_N(N)$.

Let-Through Energy AZ

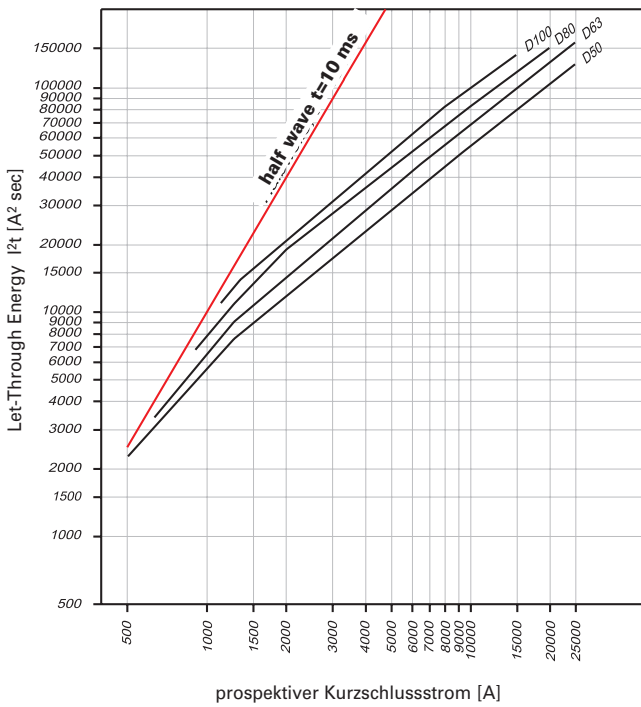
Maximum Let-Through Energy AZ, Characteristic B, 1poles



Maximum Let-Through Energy AZ, Characteristic C, 1poles



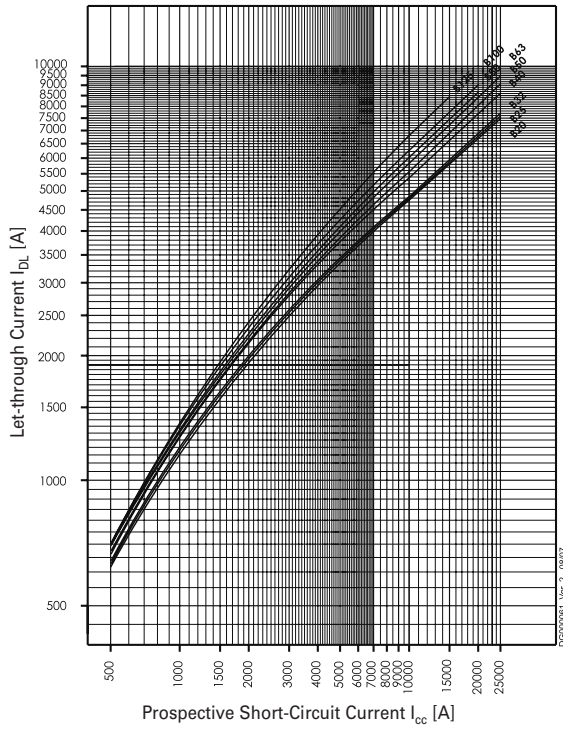
Maximum Let-Through Energy AZ, Characteristic D, 1poles



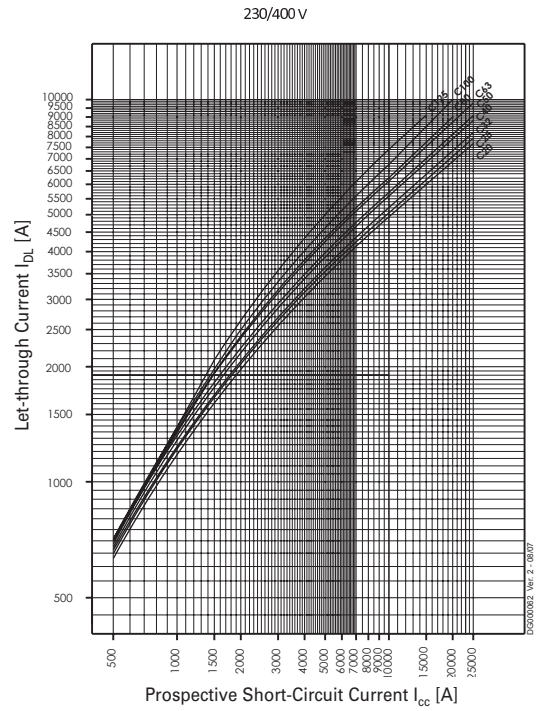
Determined according to EN 60898-1.

Maximum Let-Through Current AZ

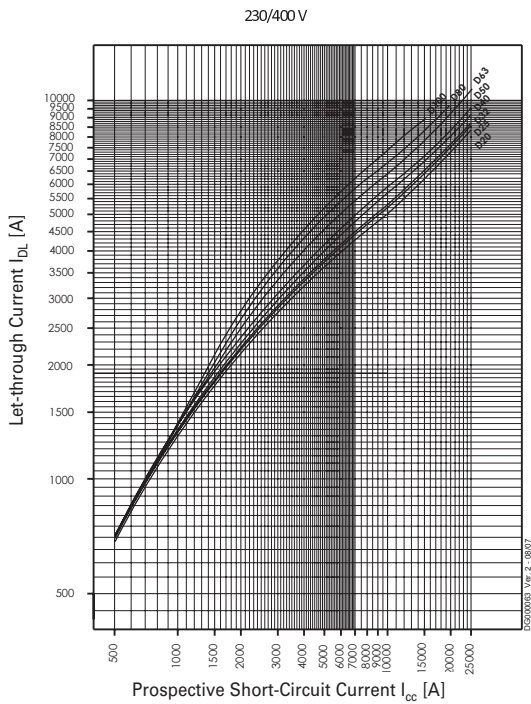
Type B



Type C



Type D



Short Circuit Selectivity AZ

In case of short circuit, there is selectivity between the miniature circuit breakers AZ and the upstream protection devices up to the specified values of the selectivity limit current I_s [kA] (i. e. in case of short-circuit currents I_{ks} under I_s , only the MCB will trip, in case of short circuit currents above this value both protective devices will respond).

AZ towards back-up fuses D01, D02, D03**Characteristic C**

| AZ | D01. D02. D03 | | | | | |
|-----------|---------------|-----|-----|-----|-----|-----|
| I_n [A] | 25 | 35 | 50 | 63 | 80 | 100 |
| 20 | 0.5 | 1.0 | 2.0 | 2.9 | 3.9 | 7.6 |
| 25 | | 1.0 | 1.9 | 2.8 | 3.8 | 7.3 |
| 32 | | 1.0 | 1.8 | 2.7 | 3.6 | 7.0 |
| 40 | | | 1.6 | 2.2 | 3.0 | 5.6 |
| 50 | | | | 2.1 | 2.8 | 5.2 |
| 63 | | | | | 2.7 | 4.8 |
| 80 | | | | | | 4.3 |
| 100 | | | | | | |
| 125 | | | | | | |

Characteristic D

| AZ | D01. D02. D03 | | | | | |
|-----------|---------------|-----|-----|-----|-----|-----|
| I_n [A] | 25 | 35 | 50 | 63 | 80 | 100 |
| 20 | 0.5 | 0.9 | 1.7 | 2.5 | 3.4 | 6.7 |
| 25 | | 0.9 | 1.6 | 2.3 | 3.2 | 6.2 |
| 32 | | 0.9 | 1.5 | 2.3 | 3.0 | 6.0 |
| 40 | | | 1.4 | 2.0 | 2.6 | 4.7 |
| 50 | | | | 1.8 | 2.3 | 4.3 |
| 63 | | | | | 2.1 | 3.7 |
| 80 | | | | | | 3.1 |
| 100 | | | | | | |

AZ towards back-up fuses NH Gr. 00**Characteristic C**

| AZ | NH Gr. 00 | | | | | | | | | |
|-----------|-----------|-----|-----|-----|-----|-----|-----|------|------|------|
| I_n [A] | 25 | 35 | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 200 |
| 20 | 0.5 | 1.0 | 1.3 | 1.9 | 2.7 | 3.7 | 6.7 | 17.0 | 25.0 | 25.0 |
| 25 | | 0.9 | 1.3 | 1.8 | 2.6 | 3.5 | 6.5 | 17.0 | 25.0 | 25.0 |
| 32 | | 0.9 | 1.2 | 1.7 | 2.4 | 3.3 | 6.0 | 15.0 | 23.0 | 25.0 |
| 40 | | | | 1.4 | 2.1 | 2.9 | 4.8 | 12.0 | 18.0 | 25.0 |
| 50 | | | | | 1.9 | 2.7 | 4.5 | 11.0 | 17.0 | 25.0 |
| 63 | | | | | | | 4.2 | 10.0 | 15.0 | 25.0 |
| 80 | | | | | | | 3.8 | 8.5 | 12.0 | 25.0 |
| 100 | | | | | | | | 7.0 | 10.0 | 25.0 |
| 125 | | | | | | | | | 7.5 | 25.0 |

Characteristic D

| AZ | NH Gr. 00 | | | | | | | | | |
|-----------|-----------|-----|-----|-----|-----|-----|-----|------|------|------|
| I_n [A] | 25 | 35 | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 200 |
| 20 | <0.5 | 0.8 | 1.1 | 1.5 | 2.3 | 3.1 | 5.6 | 16.0 | 25.0 | 25.0 |
| 25 | | 0.7 | 1.0 | 1.4 | 2.1 | 3.0 | 5.3 | 14.0 | 23.0 | 25.0 |
| 32 | | 0.7 | 1.0 | 1.3 | 2.1 | 2.9 | 5.0 | 13.0 | 22.0 | 25.0 |
| 40 | | | | 1.1 | 1.8 | 2.5 | 4.2 | 10.0 | 15.0 | 25.0 |
| 50 | | | | | 1.6 | 2.3 | 3.8 | 8.5 | 13.0 | 22.0 |
| 63 | | | | | | 2.1 | 3.2 | 7.0 | 10.5 | 18.0 |
| 80 | | | | | | | 2.8 | 5.5 | 8.4 | 15.0 |
| 100 | | | | | | | | 4.8 | 7.5 | 12.5 |

AZ towards NZM 1**Characteristic C**

| AZ | NZM...1-A gL/gG | | | | | |
|-----------|-----------------|-----|-----|------|------|------|
| I_n [A] | 40 | 50 | 63 | 80 | 100 | 125 |
| 20 | 0.5 | 1.0 | 1.3 | 1.9 | 2.7 | 3.7 |
| 20 | 0.3 | 0.4 | 0.5 | 0.75 | 0.9 | 1.25 |
| 25 | 0.3 | 0.4 | 0.5 | 0.7 | 0.9 | 1.2 |
| 32 | | 0.4 | 0.5 | 0.7 | 0.85 | 1.2 |
| 40 | | | 0.5 | 0.6 | 0.85 | 1.1 |
| 50 | | | | 0.6 | 0.85 | 1.1 |
| 63 | | | | | 0.8 | 1 |
| 80 | | | | | | 1 |
| 100 | | | | | | |
| 125 | | | | | | |

Characteristic D

| AZ | NZM...1-A gL/gG | | | | | |
|-----------|-----------------|----|----|----|-----|-----|
| I_n [A] | 40 | 50 | 63 | 80 | 100 | 125 |
| 50 | | | | | | |
| 63 | | | | | | |
| 80 | | | | | | |
| 100 | | | | | | |

Shaded fields: no selectivity

AZ towards NZM 2

Characteristic C

| AZ | NZM...2-A gL/gG | | | | | | | | | |
|--------------------|-----------------|-----|-----|------|------|------|------|-----|-----|--|
| I _n [A] | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | |
| 20 | 0.3 | 0.4 | 0.5 | 0.75 | 0.9 | 1.25 | 1.8 | 2.5 | 3.5 | |
| 25 | 0.3 | 0.4 | 0.5 | 0.7 | 0.9 | 1.2 | 1.7 | 2.4 | 3.3 | |
| 32 | | 0.4 | 0.5 | 0.7 | 0.85 | 1.2 | 1.65 | 2.3 | 3.2 | |
| 40 | | | 0.5 | 0.6 | 0.85 | 1.1 | 1.5 | 2.1 | 2.9 | |
| 50 | | | | 0.6 | 0.85 | 1.1 | 1.5 | 2 | 2.8 | |
| 63 | | | | | 0.8 | 1 | 1.4 | 1.8 | 2.5 | |
| 80 | | | | | | 1 | 1.4 | 1.8 | 2.4 | |
| 100 | | | | | | | 1.3 | 1.7 | 2.3 | |
| 125 | | | | | | | | 1.6 | 2.1 | |

Characteristic D

| AZ | NZM...2-A gL/gG | | | | | | | | | |
|--------------------|-----------------|----|----|----|-----|-----|-----|-----|-----|-----|
| I _n [A] | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 | |
| 50 | | | | | | | | 1 | 1.4 | 2.6 |
| 63 | | | | | | | | 1 | 1.3 | 2.3 |
| 80 | | | | | | | | | | 2.1 |
| 100 | | | | | | | | | | |

Shaded fields: no selectivity

Back-up Protection AZ

The up-stream protective devices will protect the down-stream AZ up to the short-circuit current specified.

AZ and NZM(B)(C)(N)(H)1

| AZ | NZMB1 |
|------------|-------------------|
| I_n [A] | $U_e = 230/400$ V |
| 20 | 25 kA |
| 25 | 25 kA |
| 32 | 25 kA |
| 40 | 25 kA |
| 50 | 25 kA |
| 63 | 25 kA |
| 80 | 25 kA |
| 100 | 25 kA |
| 125 | 25 kA |

| AZ | NZMC1 |
|------------|-------------------|
| I_n [A] | $U_e = 230/400$ V |
| 20 | 36 kA |
| 25 | 36 kA |
| 32 | 36 kA |
| 40 | 36 kA |
| 50 | 36 kA |
| 63 | 36 kA |
| 80 | 36 kA |
| 100 | 36 kA |
| 125 | 36 kA |

| AZ | NZMN1 |
|------------|-------------------|
| I_n [A] | $U_e = 230/400$ V |
| 20 | 50 kA |
| 25 | 50 kA |
| 32 | 50 kA |
| 40 | 50 kA |
| 50 | 50 kA |
| 63 | 50 kA |
| 80 | 50 kA |
| 100 | 50 kA |
| 125 | 50 kA |

| AZ | NZMH1 |
|------------|-------------------|
| I_n [A] | $U_e = 230/400$ V |
| 20 | 80 kA |
| 25 | 80 kA |
| 32 | 80 kA |
| 40 | 80 kA |
| 50 | 80 kA |
| 63 | 80 kA |
| 80 | 80 kA |
| 100 | 80 kA |
| 125 | 80 kA |

AZ and NZM(B)(C)(N)(H)2

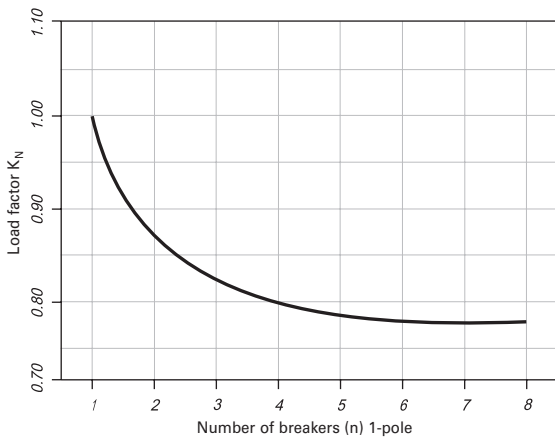
| AZ | NZMB2 |
|------------|-------------------|
| I_n [A] | $U_e = 230/400$ V |
| 20 | 25 kA |
| 25 | 25 kA |
| 32 | 25 kA |
| 40 | 25 kA |
| 50 | 25 kA |
| 63 | 25 kA |
| 80 | 25 kA |
| 100 | 25 kA |
| 125 | 25 kA |

| AZ | NZMC2 |
|------------|-------------------|
| I_n [A] | $U_e = 230/400$ V |
| 20 | 36 kA |
| 25 | 36 kA |
| 32 | 36 kA |
| 40 | 36 kA |
| 50 | 36 kA |
| 63 | 36 kA |
| 80 | 36 kA |
| 100 | 36 kA |
| 125 | 36 kA |

| AZ | NZMN2 |
|------------|-------------------|
| I_n [A] | $U_e = 230/400$ V |
| 20 | 50 kA |
| 25 | 50 kA |
| 32 | 50 kA |
| 40 | 50 kA |
| 50 | 50 kA |
| 63 | 50 kA |
| 80 | 50 kA |
| 100 | 50 kA |
| 125 | 50 kA |

| AZ | NZMH2 |
|------------|-------------------|
| I_n [A] | $U_e = 230/400$ V |
| 20 | 65 kA |
| 25 | 65 kA |
| 32 | 65 kA |
| 40 | 65 kA |
| 50 | 65 kA |
| 63 | 65 kA |
| 80 | 65 kA |
| 100 | 65 kA |
| 125 | 65 kA |

Load capacity in case of block installation AZ



Derating table for AZ above 2000m sea level

60947-2

U_e 230/400 V

80/B, C, D and 100/B, C 80, 100/B, C, D 100/D and 125/B, C 100/D and 125/B, C

| Above sea level (m) | Overvoltage category | Disconnect function | I/I_n | I_{cu} | I_{cs} | I_{cu} | I_{cs} |
|---------------------|----------------------|---------------------|---------|----------|----------|----------|----------|
| m | x | x | x | kA | kA | kA | kA |
| ≤2000 | III | yes | 1 | 20 | 10 | 15 | 7.5 |
| >2000-2500 | II | no | 0.93 | 15 | 7.5 | 10 | 6 |
| >2500-3000 | II | no | 0.88 | 15 | 7.5 | 10 | 6 |
| >3000-3500 | II | no | 0.83 | 15 | 7.5 | 10 | 6 |
| >3500-4000 | II | no | 0.78 | 15 | 7.5 | 10 | 6 |

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