


Part no. PKZM0-0,63
Article no. 072733

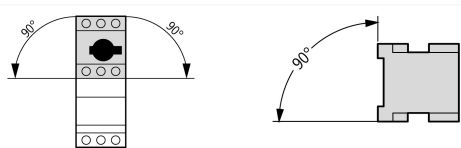
Delivery programme

| | | | |
|--|----------|----|--|
| Product range | | | PKZM0 motor protective circuit-breakers up to 32 A |
| Basic function | | | Motor protection |
| Connection technique | | | Screw terminals |
| Max. motor rating | | | |
| AC-3 | | | |
| 220 V 230 V 240 V | | | |
| 220 V 230 V | P | kW | 0.09 |
| 380 V 400 V 415 V | | | |
| 380 V 400 V | P | kW | 0.12 |
| 440 V | P | kW | 0.18 |
| 500 V | P | kW | 0.25 |
| 660 V 690 V | P | kW | 0.25 |
| Rated uninterrupted current | I_u | A | 0.63 |
| Setting range | | | |
| Overload releases | I_r | A | 0.4 - 0.63 |
| Short-circuit releases | | | |
| max. | I_{rm} | A | 8.8 |
| Notes | | | |
| Phase failure sensitivity to IEC/EN 60947-4-1, VDE 0660 part 102. Can be snap-fit to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height | | | |
|  | | | |
| PTB 10 ATEX 3013, see manual | | | |

Approvals

| | |
|---------------------------|--|
| Product Standards | UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking |
| UL File No. | E36332 |
| UL CCN | NLRV |
| CSA File No. | 12528 |
| CSA Class No. | 3211-05 |
| NA Certification | UL listed, CSA certified |
| Specially designed for NA | No |
| Suitable for | Branch circuit: Manual type E if used with terminal, or suitable for group installations |

General

| | | | |
|-----------------------------------|--|----|--|
| Standards | | | IEC/EN 60947, VDE 0660 |
| Climatic proofing | | | Damp heat, constant to IEC 60068-2-78 Damp heat, cyclic to IEC 60068-2-30 |
| Ambient temperature | | °C | |
| Storage | | °C | -40 - +80 |
| Open | | °C | - 25 - 55 |
| Enclosed | | °C | - 25 - 40 |
| Mounting position | | |  |
| Direction of incoming supply | | | as required |
| Degree of protection | | | |
| Device | | | IP20 |
| Terminations | | | IP00 |
| Protection against direct contact | | | Finger and back-of-hand proof |

| | | | |
|---|--|-----------------|--------------------------------|
| Mechanical shock resistance half-sinusoidal shock 10 ms to IEC 60068-2-27 | | g | 25 |
| Altitude | | m | 2000 |
| Terminal capacity screw terminals | | mm ² | |
| Solid | | mm ² | 1 x (1 - 6) 2 x (1 - 6) |
| Flexible with ferrule to DIN 46228 | | mm ² | 1 x (1 - 6) 2 x (1 - 6) |
| Solid or stranded | | AWG | 18 - 10 |
| Terminal capacity springloaded terminals | | | |
| Solid | | mm ² | 1 x (1...2.5) 2 x (1...2.5) |
| Flexible with ferrule to DIN 46228 | | mm ² | 1 x (1...2.5) 2 x (1...2.5) |
| Solid or stranded | | AWG | 18...14 |
| Specified tightening torque for terminal screws | | | |
| Main cable | | Nm | 1.7 |
| Control circuit cables | | Nm | 1 |

Main conducting paths

| | | | |
|---|-------------|----------------------|--|
| Rated impulse withstand voltage | U_{imp} | V AC | 6000 |
| Overvoltage category/pollution degree | | | III/3 |
| Rated operational voltage | U_e | V AC | 690 |
| Rated uninterrupted current = rated operational current | $I_u = I_e$ | A | 32 or current setting of the overcurrent release |
| Rated frequency | f | Hz | 40 - 60 |
| Rated frequency | | Hz | 40 - 60 |
| Current heat loss (3 pole at operating temperature) | | W | 6 |
| Lifespan, mechanical | Operations | x 10 ⁶ | 0.1 |
| Lifespan, electrical (AC-3 at 400 V) | Operations | x 10 ⁶ | 0.1 |
| Maximum operating frequency | | Ops./ h | |
| Max. operating frequency | | Ops./ h | 40 |
| Short-circuit rating | | | |
| AC | | | → Engineering |
| DC | | | |
| Short-circuit rating | | kA | 60 |
| Short-circuit rating | | | 60 (up to PKZM0-16) 40 (PKZM0-20 to PKZM0-32) |
| Motor switching capacity | | kA _{rms} | |
| AC-3 (up to 690 V) | | A | 32 |
| DC-5 (up to 250 V) | | A | 25 (3 contacts in series) |

Trip blocks

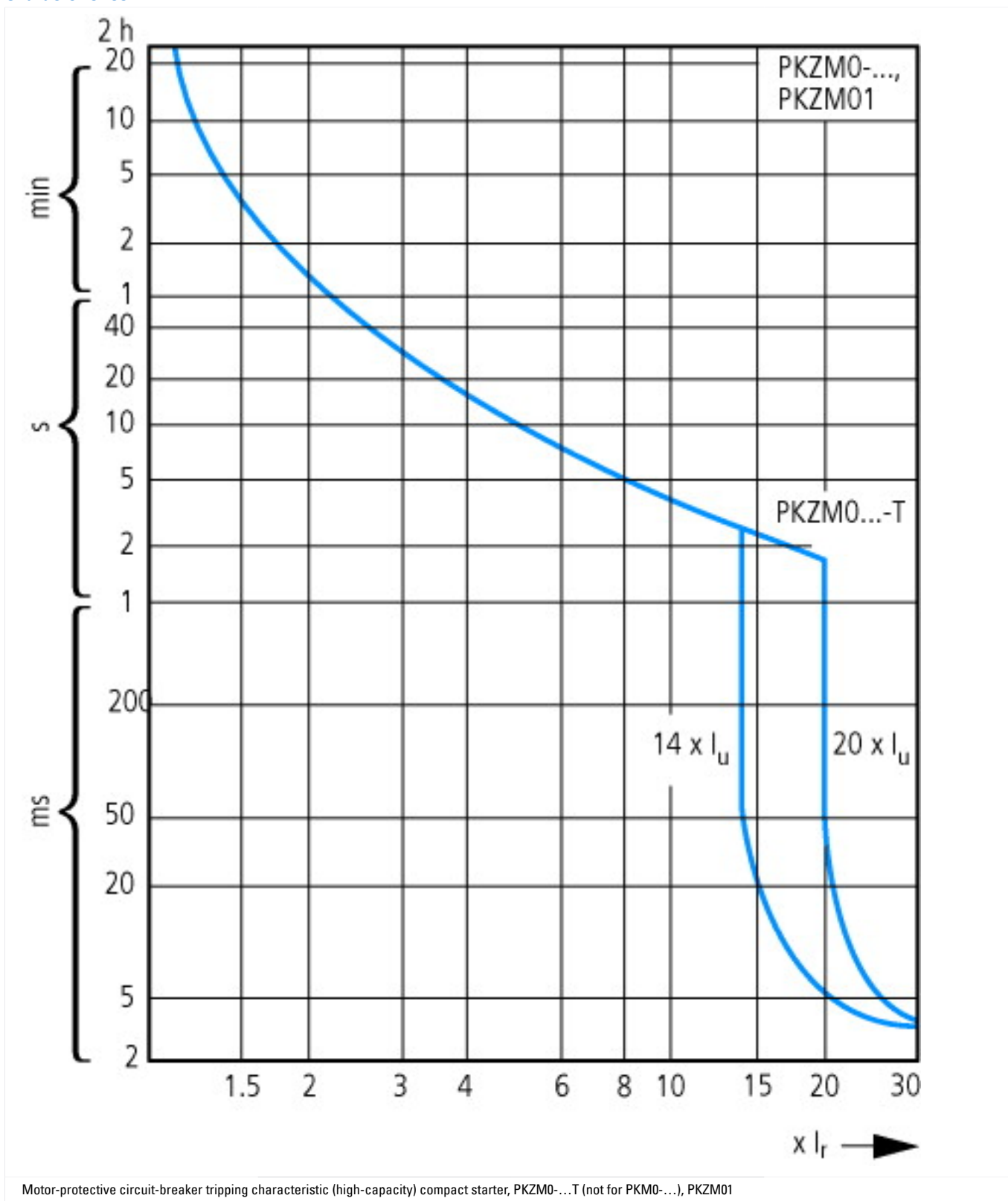
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|---|--|---------|-------------------------------------|
| Temperature compensation | | | |
| to IEC/EN 60947, VDE 0660 | | °C | - 5 ... 40 |
| Operating range | | °C | - 25 ... 55 |
| Temperature compensation residual error for T > 40 °C | | | $\pm 0.25\%/K$ |
| Setting range of overload releases | | x I_u | 0.6 - 1 |
| Short-circuit release fixed | | x I_u | 14 |
| Fixed short-circuit release | | | Basic device 14 x I_u |
| Short-circuit release tolerance | | | ± 20% |
| Phase-failure sensitivity | | | IEC/EN 60947-1-1, VDE 0660 Part 102 |

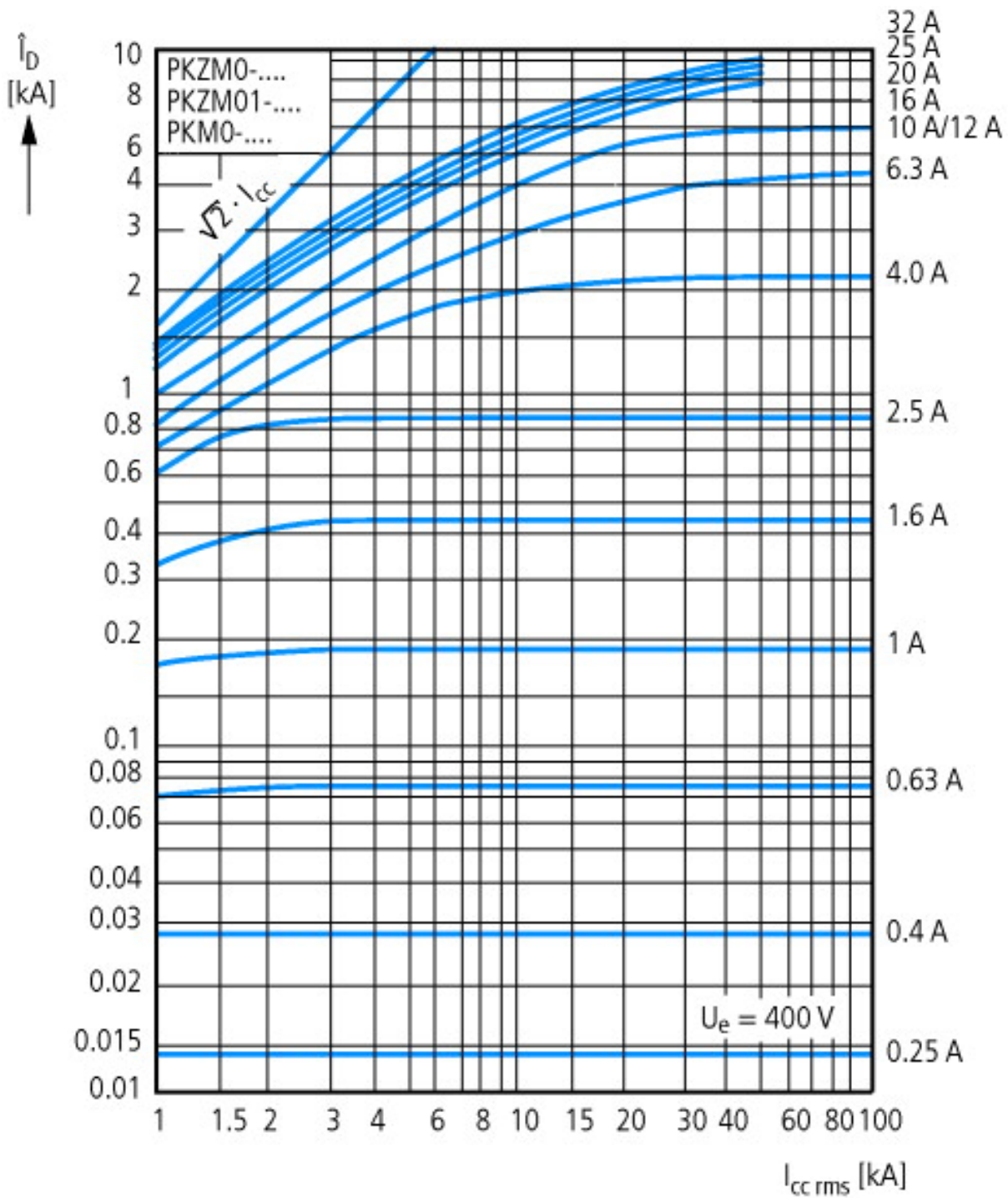
Technical data ETIM 4.0

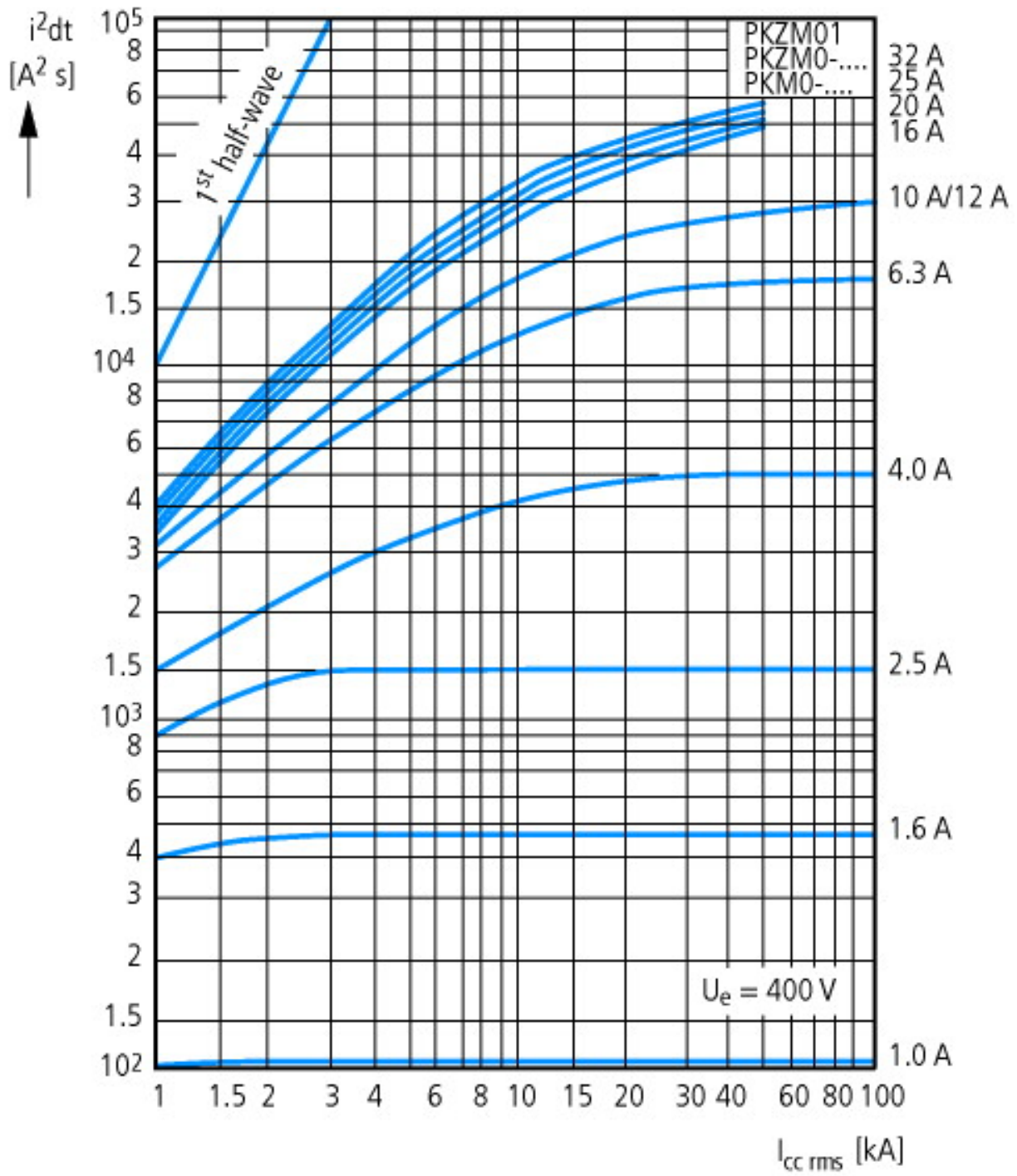
| | | | |
|--------------------------------------|--|-----|------|
| Rated operation power at AC-3, 400 V | | kWh | 0.12 |
|--------------------------------------|--|-----|------|

| | | |
|---------------------------------------|---|------------------|
| With integrated auxiliary switch | | No |
| Rated permanent current I_u | A | 0.63 |
| With integrated under voltage release | | No |
| Number of poles | | 3 |
| Degree of protection (IP) | | IP20 |
| Connection type main current circuit | | Screw connection |

Characteristics

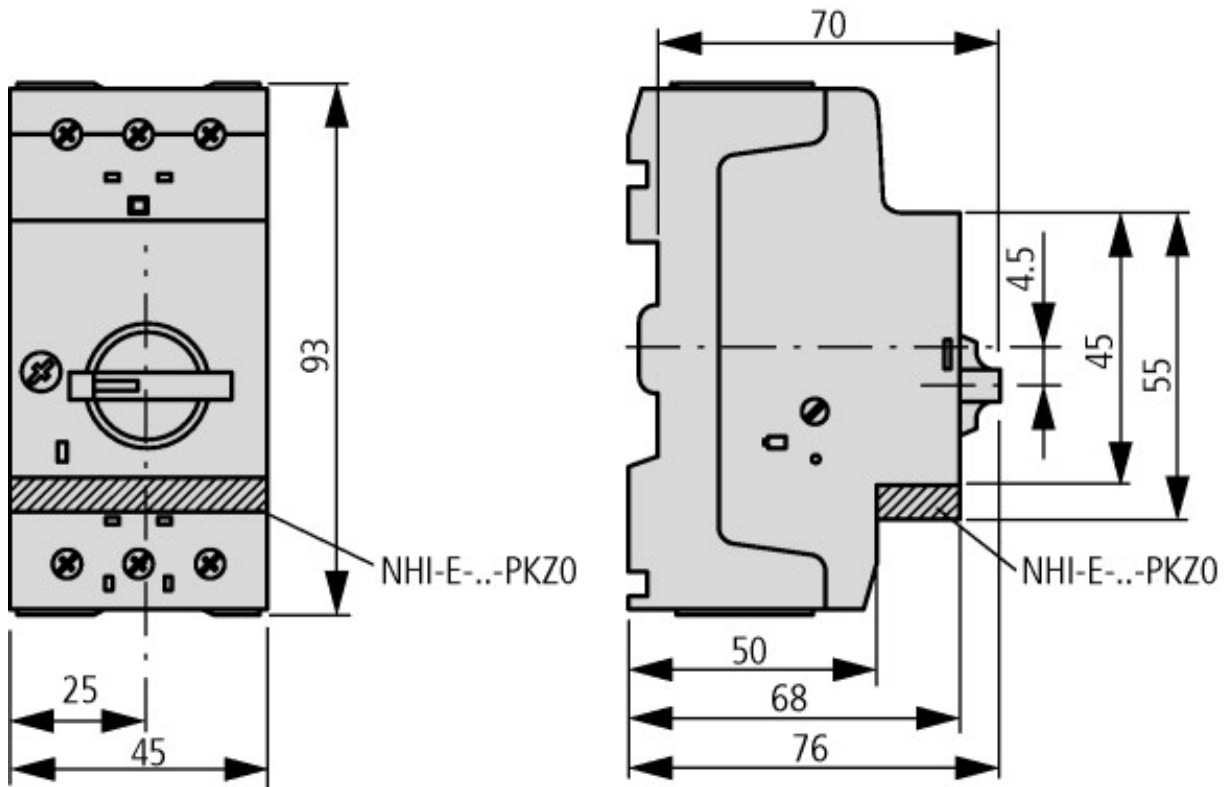




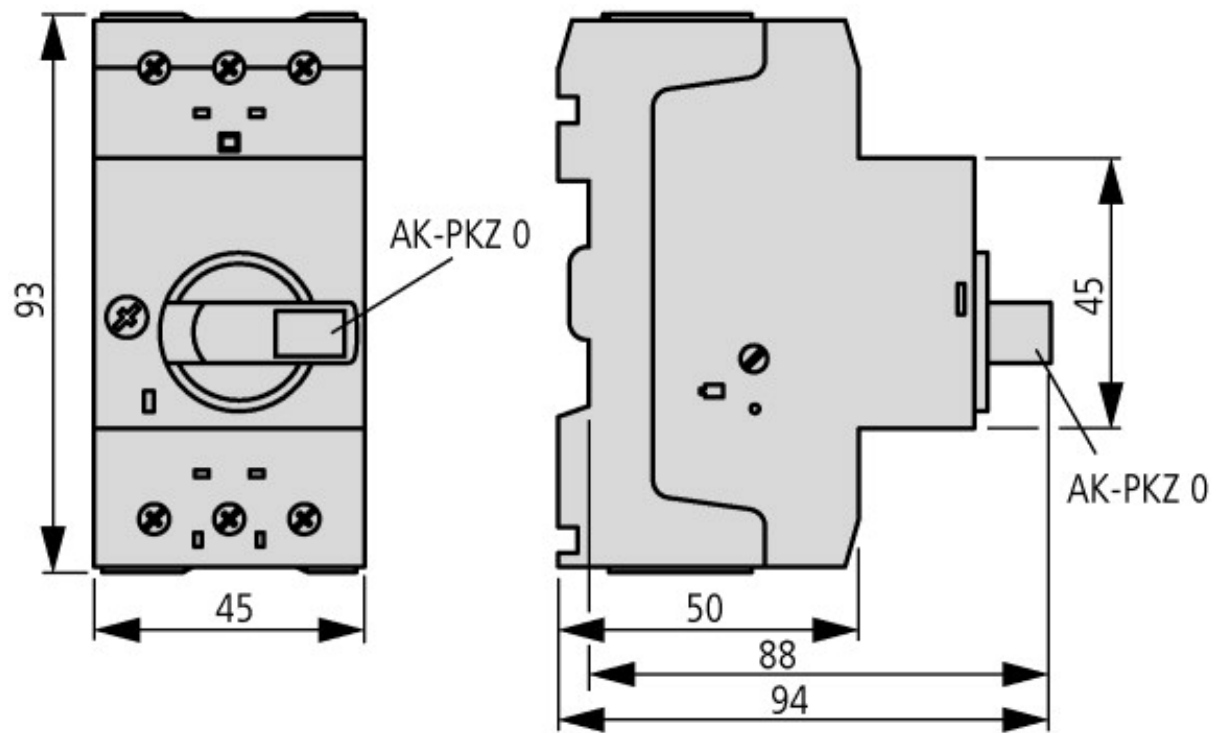


Let-through characteristics

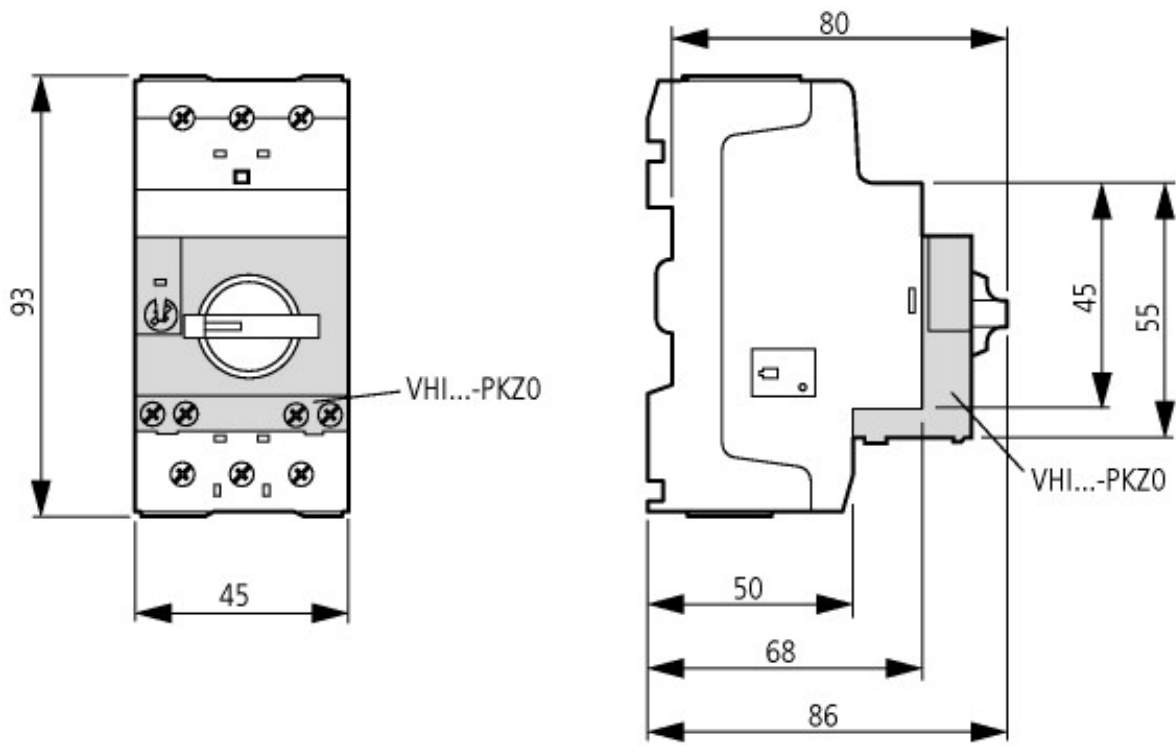
Dimensions



Motor-protective circuit-breaker with standard auxiliary contact
 PKZM0...(+NHI-E...-PKZ0)
 PKZM0...-T(+NHI-E...-PKZ0)
 PKM0...(+NHI-E...-PKZ0)



Motor-protective circuit-breakers with lockable rotary handles
 PKZM0...+AK-PKZ0



Motor-protective circuit-breakers with early-make auxiliary contacts
 PKZM0-...+VHI-...-PKZ0

Additional product information (links)

IL03407010Z (AWA1210-2138) Motor-protective circuit-breaker

IL03407010Z (AWA1210-2138) Motor-protective circuit-breaker

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407010Z2010_08.pdf

IL03407011Z (AWA1210-1925) Motor-protective circuit-breaker

IL03407011Z (AWA1210-1925) Motor-protective circuit-breaker

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407011Z2010_08.pdf

MN03402003Z-DE/EN (AWB1210-1458) motor-protective circuit-breakers PKZM0, overload monitoring of Ex e motors

MN03402003Z-DE/EN (AWB1210-1458) motor-protective circuit-breakers PKZM0, overload monitoring of Ex e motors - Deutsch / English

ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN03402003Z_DE_EN.pdf

Motor starters and "Special Purpose Ratings" for the North American market

http://www.moeller.net/binary/ver_techpapers/ver953en.pdf

Busbar Component Adapters for modern Industrial control panels

http://www.moeller.net/binary/ver_techpapers/ver960en.pdf