



Motor-protective circuit-breaker, 3p, Ir=4-6.3A, screw connection



Powering Business Worldwide™

Part no. PKZM0-6,3
Article no. 072738
Catalog No. XTPR6P3BC1NL

Delivery programme

Product range

PKZM0 motor protective circuit-breakers up to 32 A
 Motor protection
 Screw terminals

Basic function

Connection technique

Max. motor rating

AC-3

220 V 230 V 240 V

P

kW

1.1

380 V 400 V 415 V

P

kW

2.2

440 V

P

kW

3

500 V

P

kW

3

660 V 690 V

P

kW

4

Setting range

Overload releases

I_r

A

4 - 6.3



Short-circuit releases



max.

I_{rm}

A

88

Notes

Phase failure sensitivity to IEC/EN 60947-4-1, VDE 0660 part 102.
 can be snapped-on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height



PTB 10 ATEX 3013, observe Manual MN03402003Z-DE/EN

Approvals

Product Standards

UL File No.

UL Category Control No.

CSA File No.

CSA Class No.

North America Certification

Specially designed for North America

Suitable for

UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking

E36332

NLRV

165628

3211-05

UL listed, CSA certified

No

Branch circuit: Manual type E if used with terminal, or suitable for group installations

General

Standards

Climatic proofing

Ambient temperature

Storage

Open

Enclosed

Mounting position

Direction of incoming supply

Degree of protection

Device

Terminations

Protection against direct contact

Mechanical shock resistance half-sinusoidal shock 10 ms to IEC 60068-2-27

Altitude

Terminal capacity screw terminals

		IEC/EN 60947, VDE 0660
		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
	°C	
g	°C	-40 - +80
	°C	- 25 - 55
	°C	- 25 - 40
		as required
		IP20
		IP00
		Finger and back-of-hand proof
	g	25
	m	2000
	mm ²	

Solid

Flexible with ferrule to DIN 46228

Solid or stranded

Specified tightening torque for terminal screws

Main cable

Control circuit cables

	mm ²	1 x (1 - 6) 2 x (1 - 6)
	mm ²	1 x (1 - 6) 2 x (1 - 6)
	AWG	18 - 10
	Nm	1.7
	Nm	1

Main conducting paths

Rated impulse withstand voltage

Overvoltage category/pollution degree

Rated operational voltage

Rated uninterrupted current = rated operational current

Rated frequency

Rated frequency

Current heat loss (3 pole at operating temperature)

Lifespan, mechanical

Lifespan, electrical (AC-3 at 400 V)

Maximum operating frequency

Max. operating frequency

Short-circuit rating

AC

DC

Short-circuit rating

Short-circuit rating

Motor switching capacity

AC-3 (up to 690 V)

DC-5 (up to 250 V)

U _{imp}	V AC	6000
		III/3
U _e	V AC	690
I _u = I _e	A	32 or current setting of the overcurrent release
f	Hz	40 - 60
	Hz	40 - 60
	W	6
Operations	x 10 ⁶	0.1
Operations	x 10 ⁶	0.1
	Ops./ h	
	Ops./ h	40
		→ Engineering
	kA	60
		60 (up to PKZM0-16) 40 (PKZM0-20 to PKZM0-32)
	kA _{rms}	
	A	32
	A	25 (3 contacts in series)

Trip blocks

Temperature compensation

to IEC/EN 60947, VDE 0660

Operating range

Temperature compensation residual error for T > 40 °C

Setting range of overload releases

Short-circuit release fixed

Fixed short-circuit release

Short-circuit release tolerance

Phase-failure sensitivity

	°C	- 5 ... 40
	°C	- 25 ... 55
		≡ 0.25 %/K
	x I _u	0.6 - 1
	x I _u	14
		Basic device 14 x I _u
		± 20%
		IEC/EN 60947-1-1, VDE 0660 Part 102

Technical data ETIM 5.0

Low-voltage industrial components (EG000017) / Motor protective circuit-breaker (EC000074)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Circuit breaker motor protection

(ec1@ss8-27-37-04-01 [AGZ529012])

Setting range overload protector

A

4 - 6.3

Adjustment range undelayed short-circuit release

A

88 - 88

Phase failure sensitive

Yes

Switch off technique

Electronic

Rated operating voltage

V

690 - 690

Rated permanent current I_u

A

6.3

Rated operation power at AC-3, 230 V

kW

1.1

Rated operation power at AC-3, 400 V

kW

2.2

Connection type main current circuit

Screw connection

Device construction

Built-in device fixed built-in technique

With integrated auxiliary switch

No

With integrated under voltage release

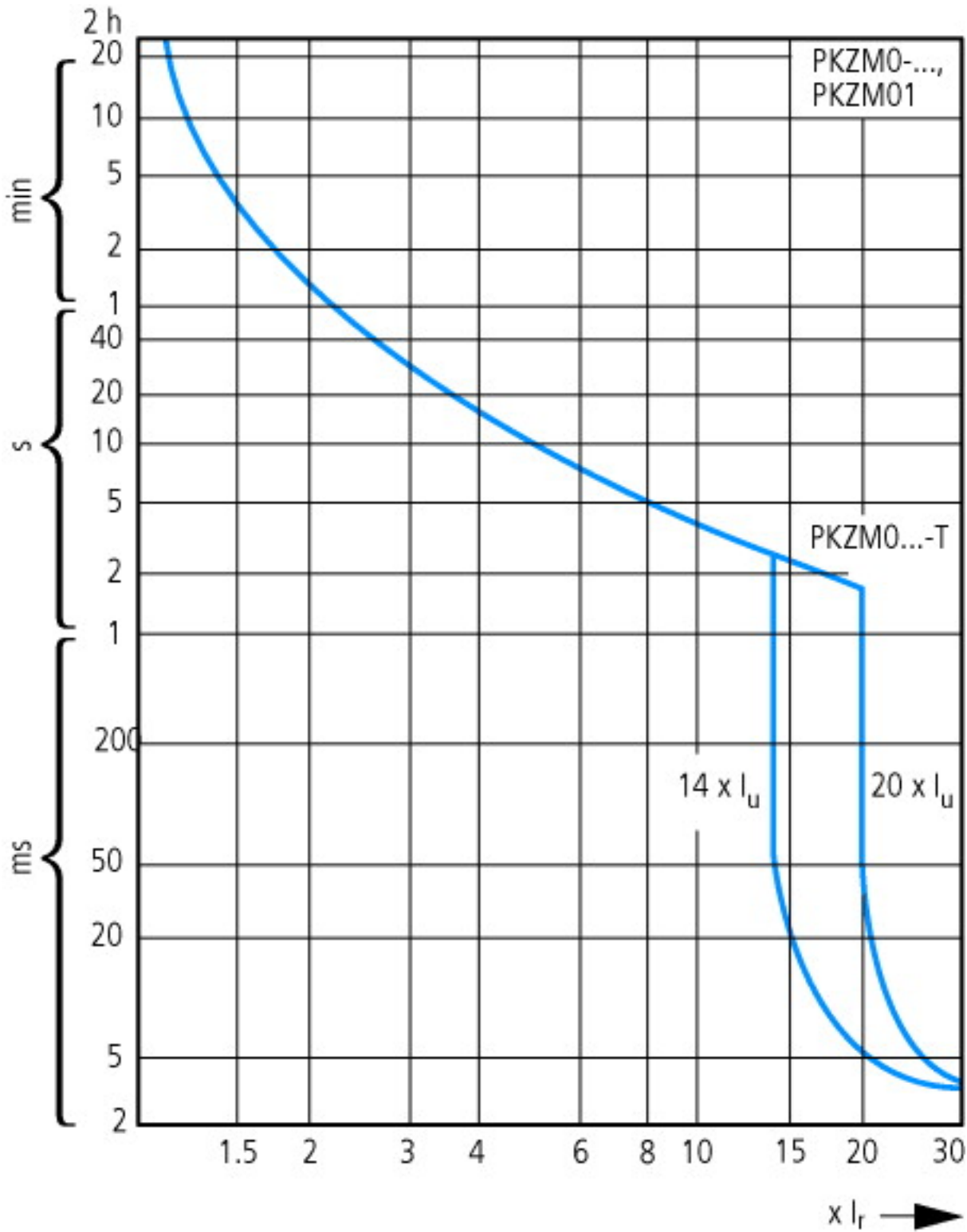
No

Number of poles

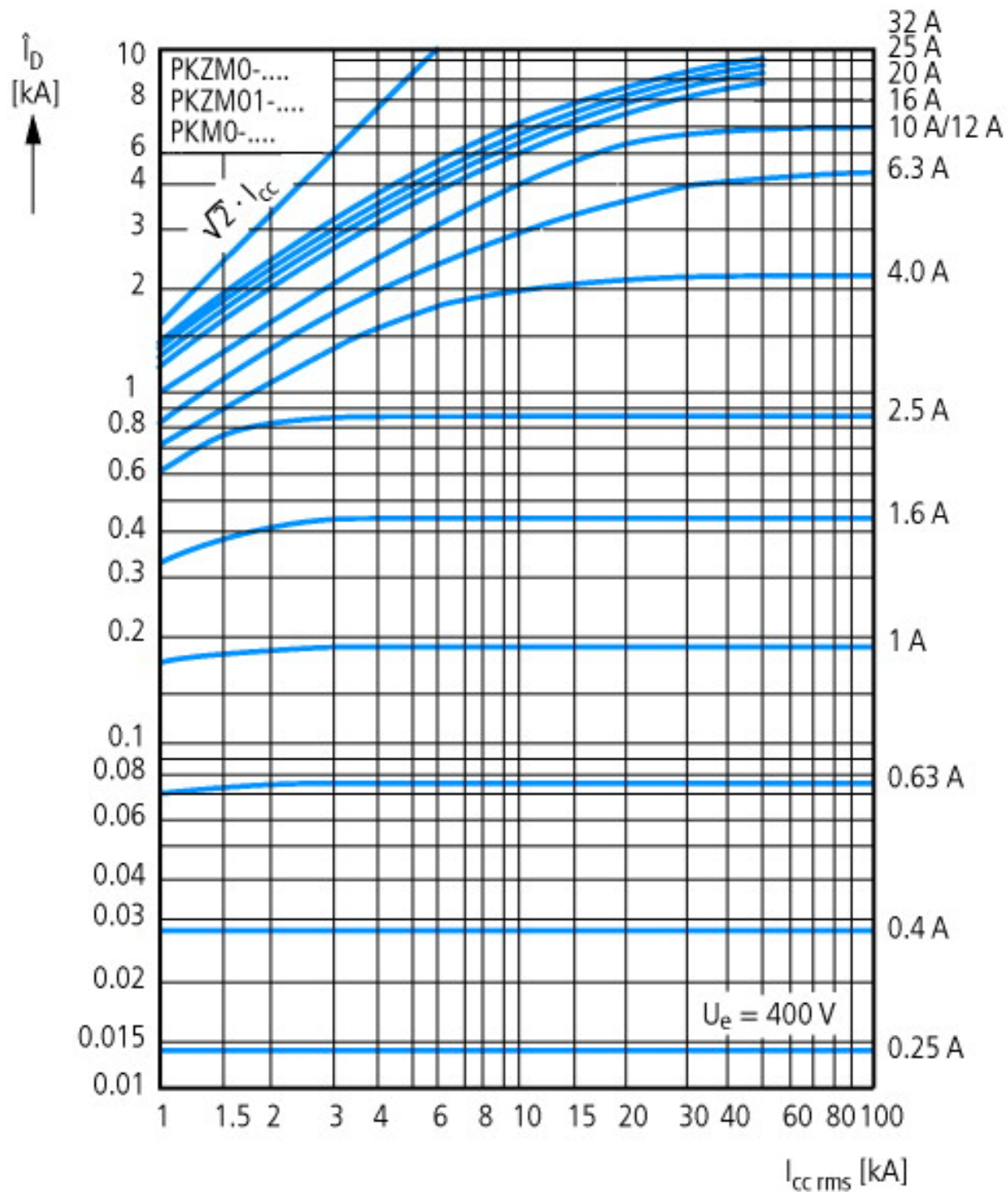
3

Characteristics

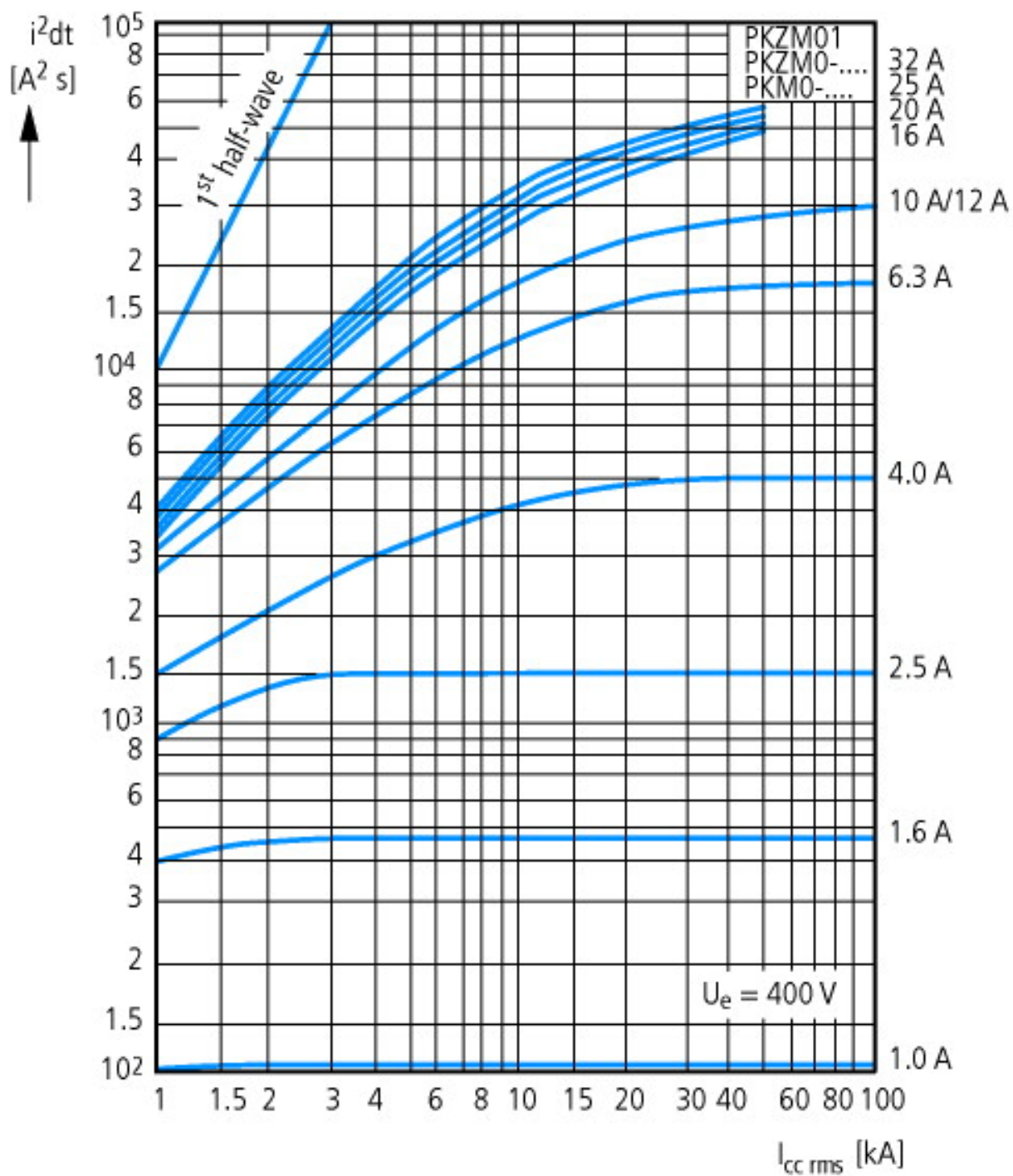
Characteristic curves



Motor-protective circuit-breaker tripping characteristic (high-capacity) compact starter, PKZM0-...T (not for PKM0-...), PKZM01

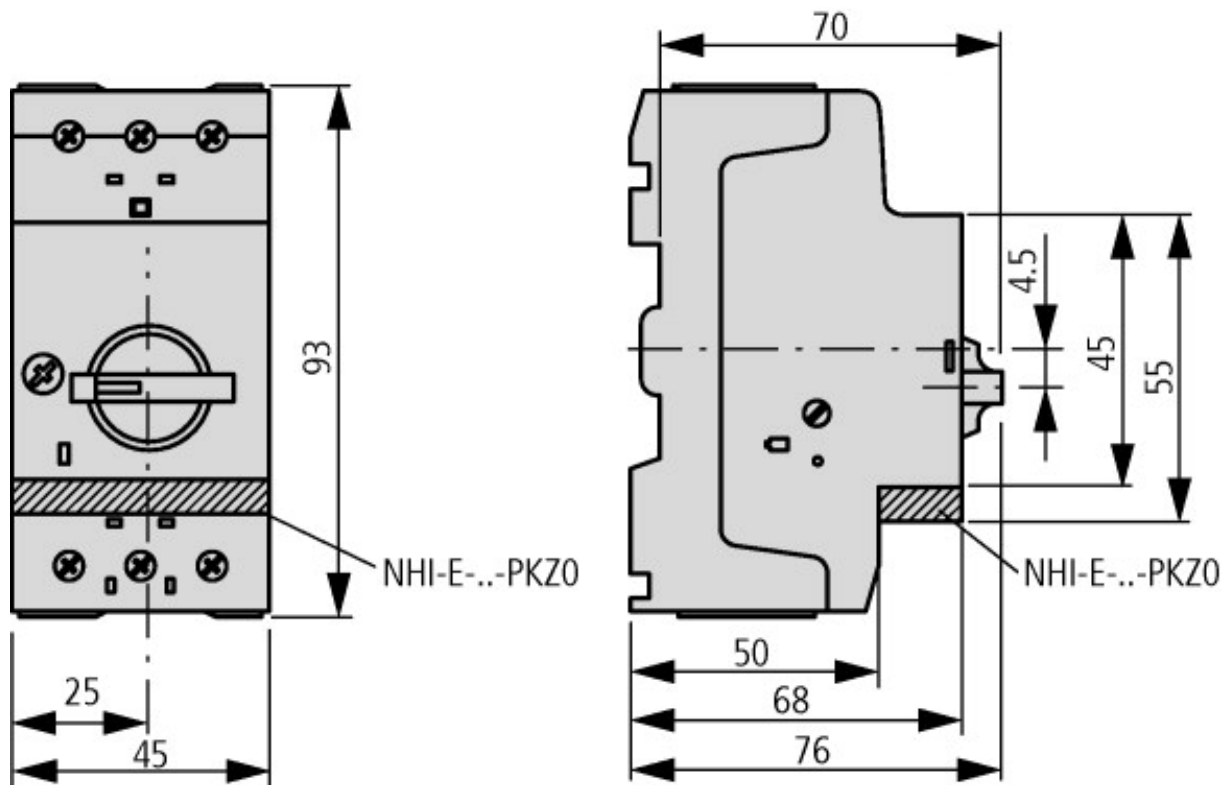


Let-through current

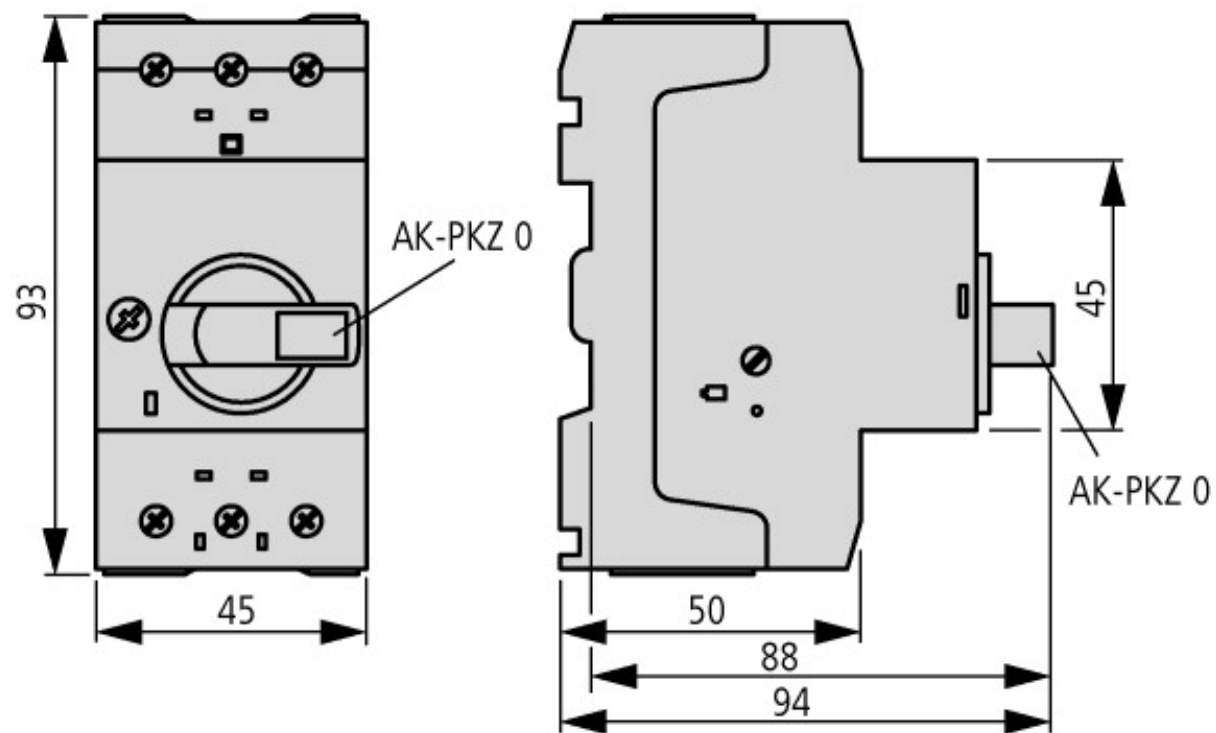


Let-through energy

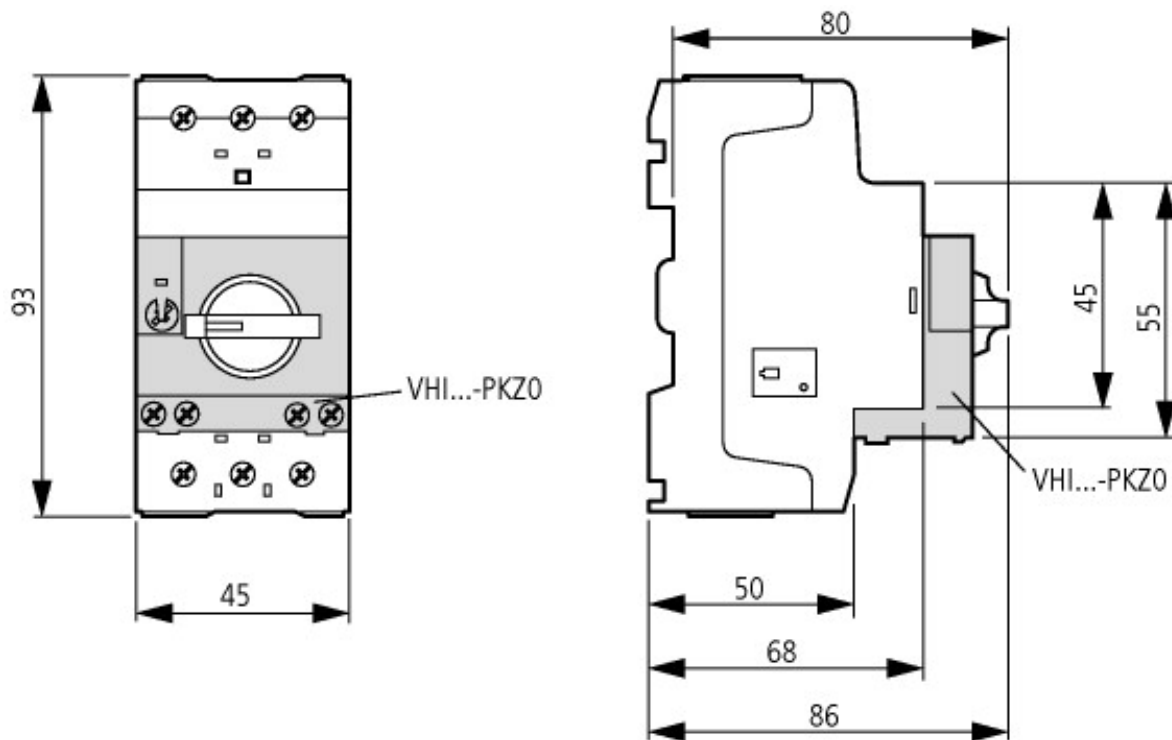
Dimensions



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/IL03407011Z2014_02.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