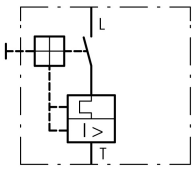
TRANSF. PROTECTION PKZM0-..T

Part no. PKZM0-2,5-T

Article no. 088913

Powering Business Worldwide™

Program

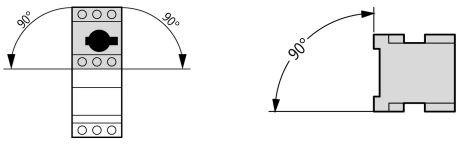
Product range			PKZM0...T transformer-protective circuit-breakers up to 25 A
Basic function			Transformer protection
Connection technique			Screw terminals
Contact sequence			
Rated uninterrupted current	I_u	A	2.5
Setting range			
Overload releases	I_r	A	1.6 - 2.5
Short-circuit releases			
max.	I_{rm}	A	50

Notes
For the protection of transformers with a high inrush current
can be snap-fitted to IEC/EN 60715 top-hat rail with 7.,5 or 15 mm height
Phase failure sensitivity to IEC/EN 60947-4-1, VDE 0660 part 102.

Approbationen

UL approval	No
CSA approval	No
Specially designed for NA	No

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	- 25 - 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
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	25 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	25
DC-5 (up to 250 V)		A	25 (3 contacts in series)

Trip blocks

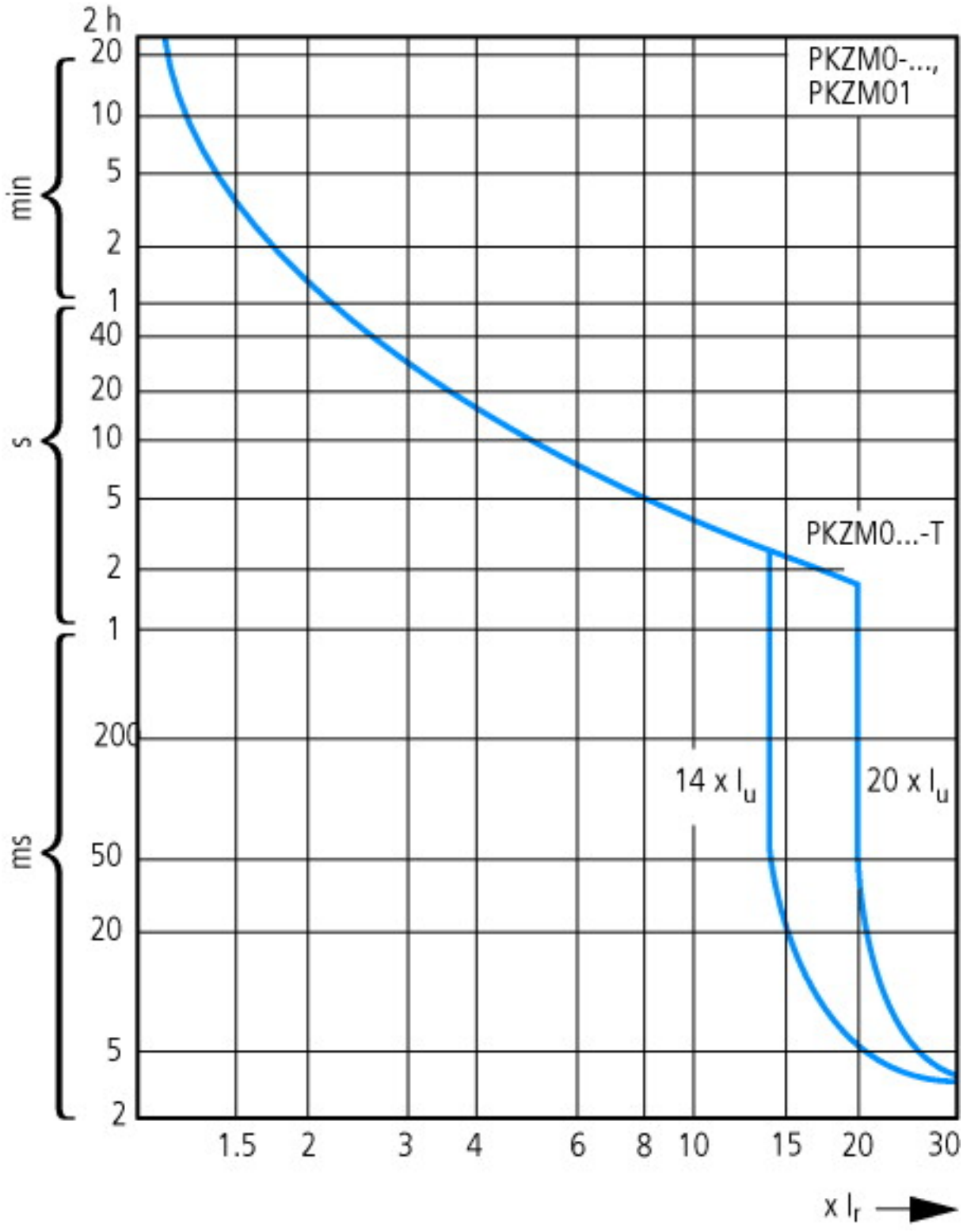
Temperature compensation			
to IEC/EN 60947, VDE 0660		°C	- 5 … 40
Operating range		°C	- 25 … 55
Temperature compensation residual error for T > 40 °C			0.25%/K
Setting range of overload releases		x I_u	0.6 - 1
Short-circuit release fixed		x I_u	20
Fixed short-circuit release			Basic device 20 x I_u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

Technical data according to ETIM 4.0

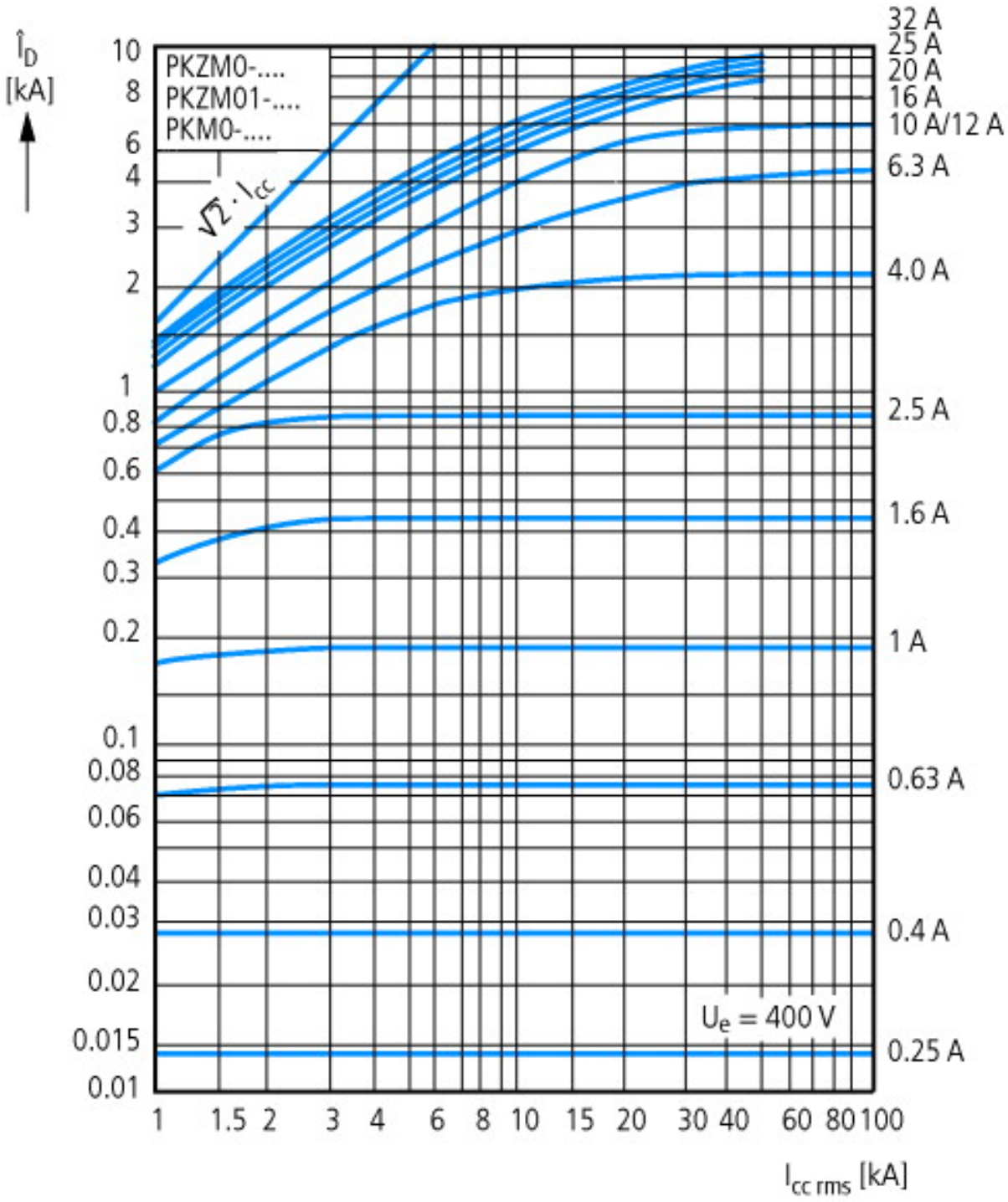
Number of poles			3
Rated uninterrupted current Iu		A	2.5
Number of auxiliary contacts as N/Cs			0
Number of auxiliary contacts as N/Os			0
Device construction			-
With under voltage release			No
Motor operator optional			No
Integrated earth fault protection			No
Suitable for DIN rail (top hat rail) mounting			YES
Setting range non-delayed short-circuit release		A	50
Setting range short-term delayed short-circuit release		A	0
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz		kA	150
Switched-off indicator available			YES
Type of control element			Rotary head
Connection type main current circuit			Screw connection
Motor operator integrated			YES

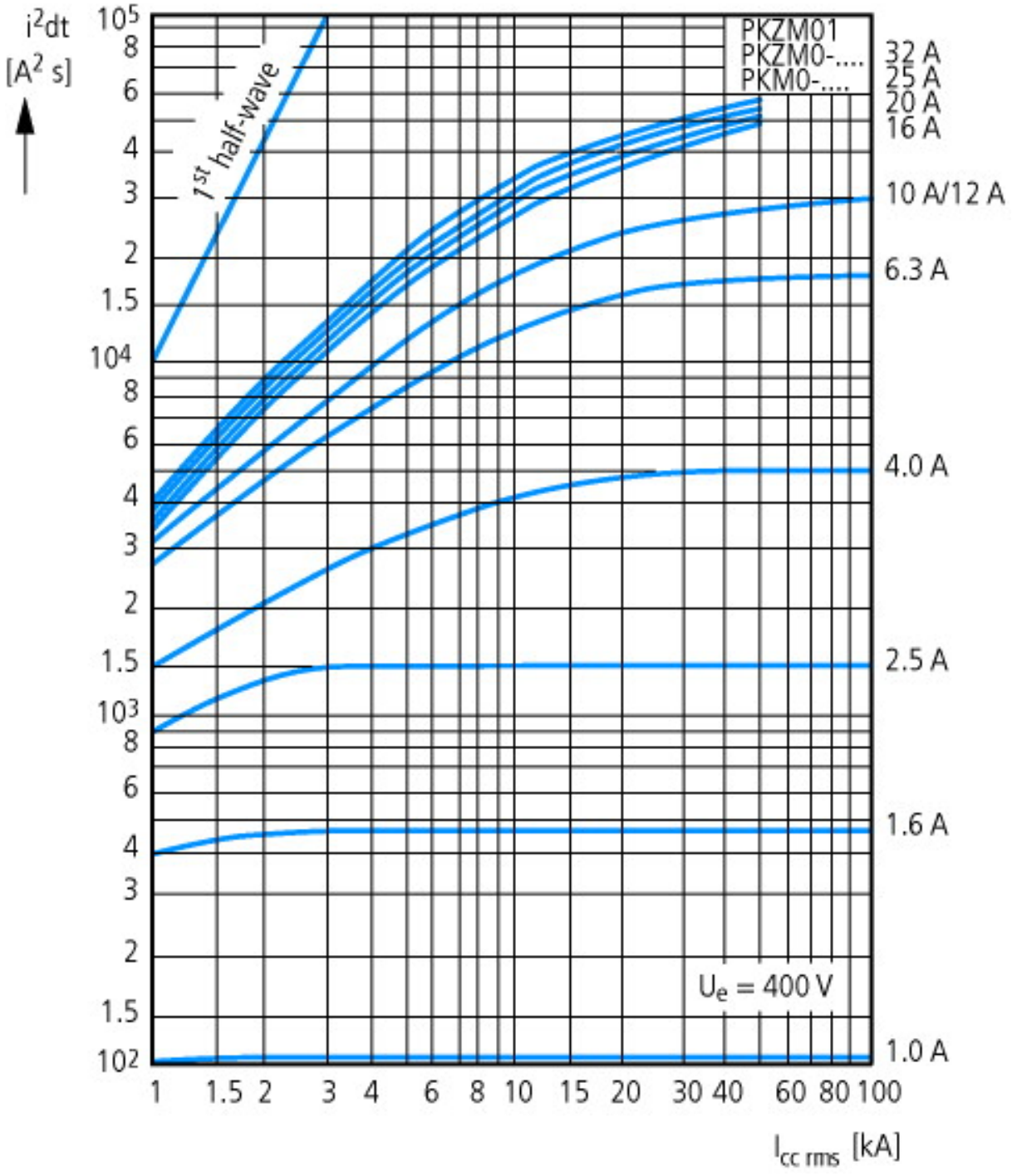
Position of connection for main circuit			-
Protection type (IP)			IP20
Number of auxiliary contacts as changeover contact			0
Setting range of overload releases		A	2.5

Characteristics



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


$\hat{I}_D$ [kA]
PKZM0-....
PKZM01-....
PKM0-....
$\sqrt{2} \cdot I_{cc}$
32 A
25 A
20 A
16 A
10 A/12 A
6.3 A
4.0 A
2.5 A
1.6 A
1 A
0.63 A
0.4 A
0.25 A
U_e = 400 V
10
8
6
4
3
2
1
0.8
0.6
0.4
0.3
0.2
0.1
0.08
0.06
0.04
0.03
0.02
0.015
0.01
1 1.5 2 3 4 6 8 10 15 20 30 40 60 80 100
$I_{cc\ rms}$ [kA]

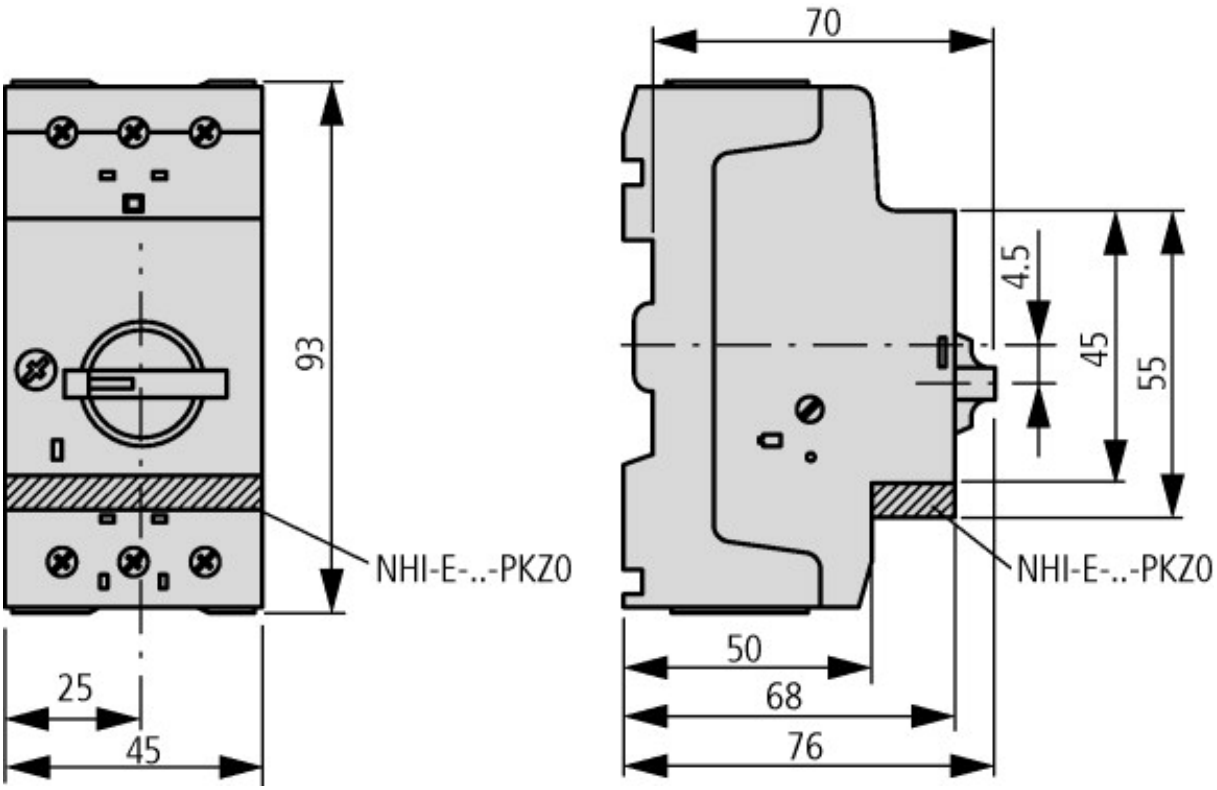


Let-through characteristics

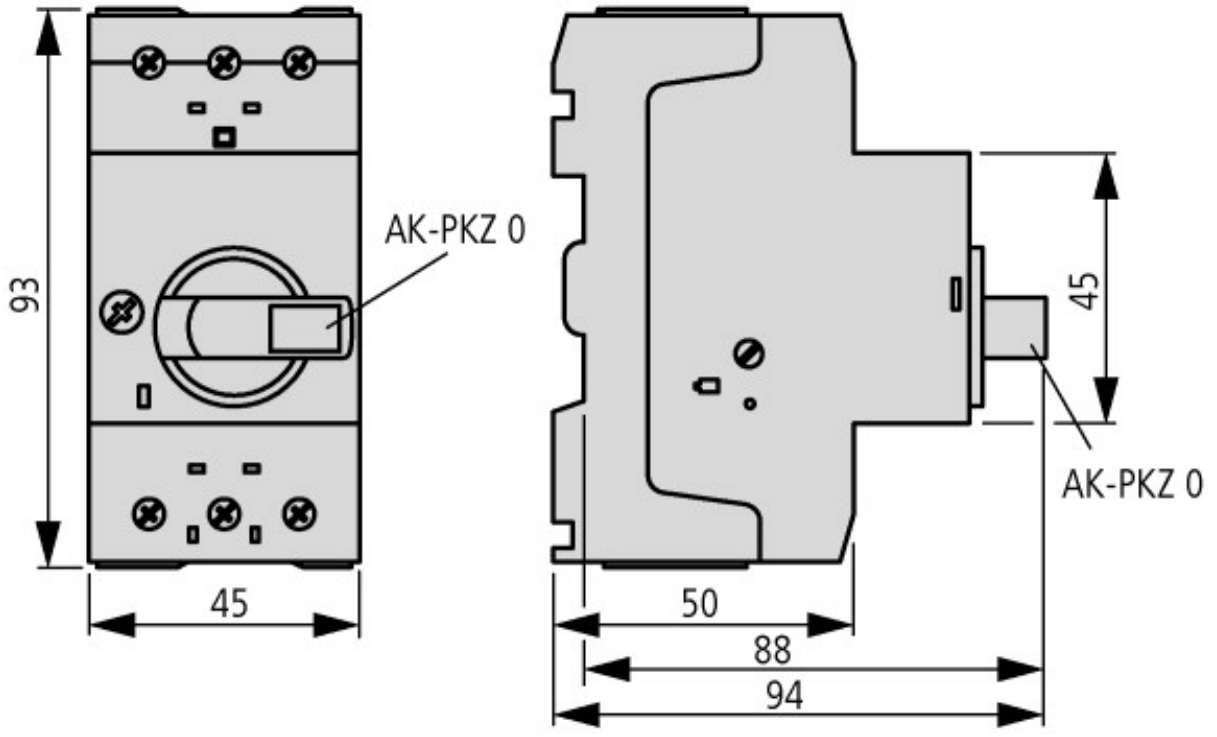
CAD-Data

Product standards CAD data: http://eaton-moeller.partcommunity.com

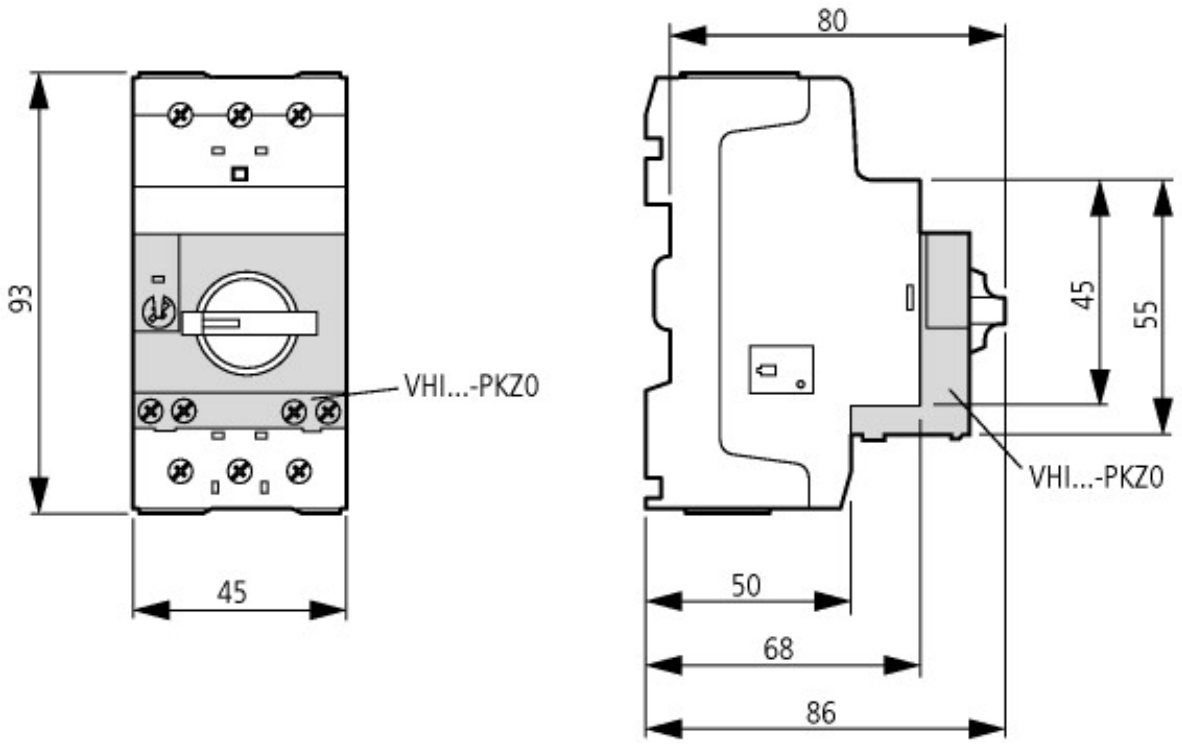
Dimensions



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