



## PKZM4 motor-protective circuit-breaker

**Part no.** PKZM4-25

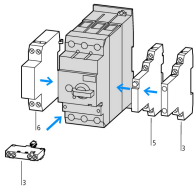
**Article no.** 222352



### Delivery programme

Connection technique			Screw terminals
220 – 240 V			
AC-3			
220 V 230 V 240 V	<i>P</i>	kW	5.5
380 V 400 V 415 V	<i>P</i>	kW	12.5
440 V	<i>P</i>	kW	12.5
500 V	<i>P</i>	kW	15
660 V 690 V	<i>P</i>	kW	22
Rated uninterrupted current	<i>I<sub>u</sub></i>	A	25
<b>Setting range</b>			
Overload releases	<i>I<sub>r</sub></i>	A	20 ... 25
Short-circuit releases			
max.	<i>I<sub>rm</sub></i>	A	350

### Notes



#### Accessories

3 Standard auxiliary contact  
 5 Trip-indicating auxiliary contact  
 6 Shunt releases, undervoltage releases  
 Single-phasing sensitivity to IEC/EN 60947-4-1  
 Can be snap fitted to an IEC/EN 60715 top-hat rail, height 7.5 or 15 mm

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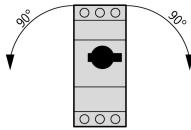
→ 072896  
 → 072898  
 → 073187

→ 266164



PTB 02 ATEX 3153, see manual

### General

Standards			UL 508 (on request) CSA C 22.2 No. 14 (on request)
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature		°C	
Storage		°C	- 25 - 70
Open		°C	- 25 ... 55
Enclosed		°C	- 25 ... 40
Mounting position			
Direction of incoming supply			As required
Degree of protection			
Device			IP 20
Terminations			IP00
Protection against direct contact			Finger and back-of-hand proof

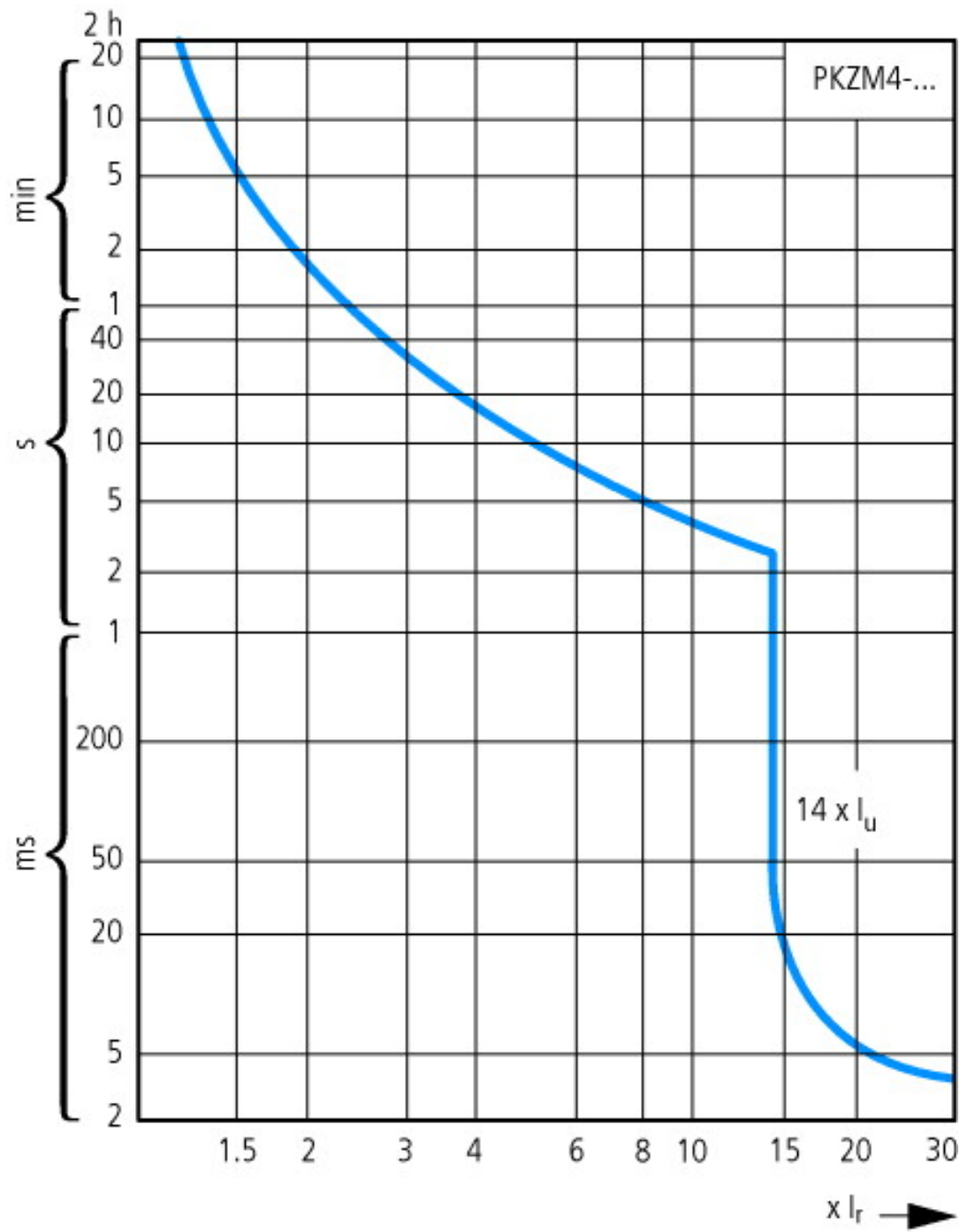
Mechanical shock resistance half-sinusoidal shock 10 ms to IEC 60068-2-27		g	15
Altitude		m	2000
Terminal capacities		mm <sup>2</sup>	
Solid		mm <sup>2</sup>	1 × (1 – 50) 2 × (1 – 35)
Flexible with ferrule		mm <sup>2</sup>	1 × (1 – 35) 2 × (1 – 35)
Solid or stranded		AWG	14 – 2
Specified tightening torque for terminal screws			
Main cable		Nm	3.3
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	65 open 63 enclosed
Rated frequency		Hz	40 – 60
Current heat loss (3 pole at operating temperature)		W	22
Lifespan, mechanical	Operations	× 10 <sup>6</sup>	0.03
Lifespan, electrical	Operations		30000
Maximum operating frequency		Ops./h	
Max. operating frequency		Ops/h	40
Motor switching capacity		kA <sub>rms</sub>	
AC–3		V	Max. 400, for higher voltages, please enquire
DC – 5		V	250/60 kA
DC-5 (up to 250 V)		A	63 (3 contacts in series)

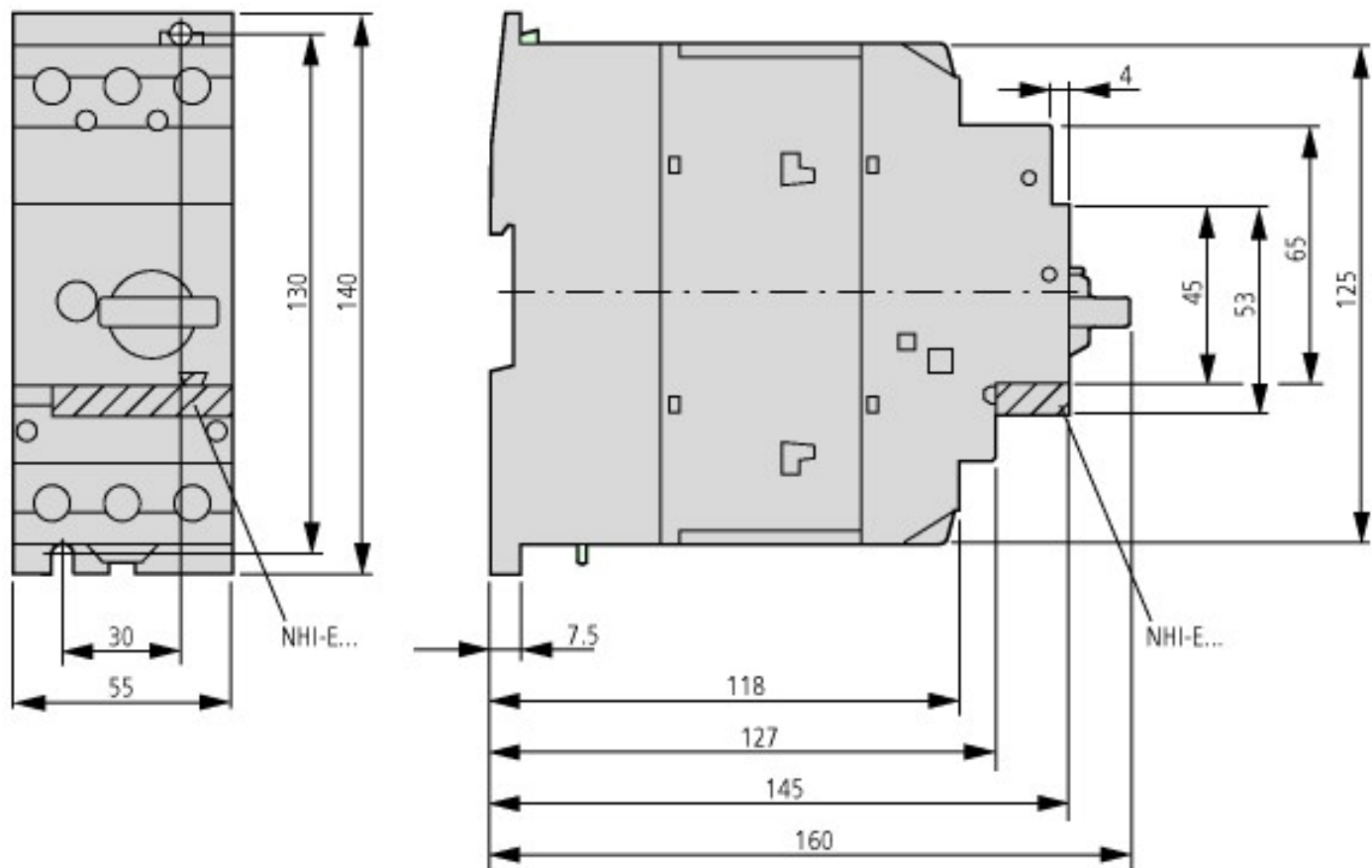
### Trip blocks

Temperature compensation			
to IEC/EN 60947, VDE 0660		°C	5 ... 40
Operating range		°C	25 ... 55
Temperature compensation residual error		%/K	$\leq$ 0.25
Setting range of overload releases		× $I_u$	0.6 – 1
Short-circuit release fixed		× $I_u$	14
Short-circuit release tolerance		%	± 20
Phase-failure sensitivity			IEC/EN 60947-4-1, VDE 0660 Part 102

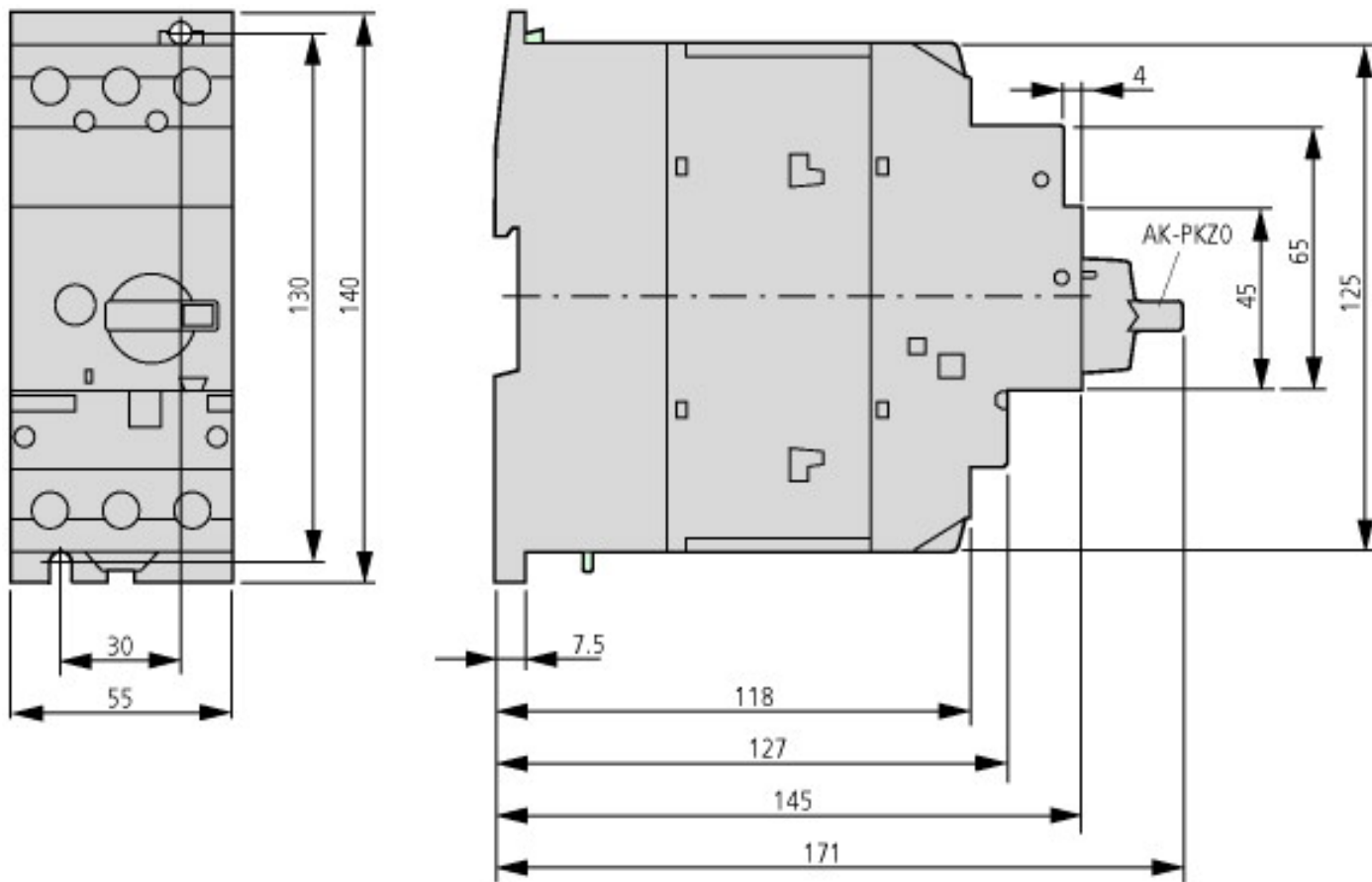


Motor-protective circuit-breaker tripping characteristic (high-capacity) compact starter, PKZM0-...T (not for PKM0-...), PKZM01

## Dimensions



Motor-protective circuit-breakers with lockable cover



PKZM4... +AK-PKZ0

### Additional product information (links)

#### Installation instructions

AWA121-1945 Motor-protective circuit-breakers, motor starters

[ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/19451109.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/19451109.pdf)

#### Manual

