



PKZM4 motor-protective circuit-breaker

Part no. PKZM4-58

Article no. 222394

Delivery programme

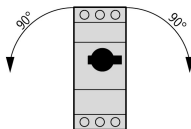
Product range				PKZM4 motor protective circuit-breakers up to 65 A
Basic function				Motor protection
Connection technique				Screw terminals
Contact sequence				
Max. motor rating				
AC-3				
220 V 230 V 240 V				
220 V 230 V	P	kW	17	
380 V 400 V 415 V				
380 V 400 V	P	kW	30	
440 V	P	kW	37	
500 V	P	kW	37	
660 V 690 V				
660 V 690 V	P	kW	55	
Rated uninterrupted current	I _u	A	58	
Setting range				
Overload releases	I _r	A	50 - 58	
Short-circuit releases				
max.	I _{rm}	A	812	
Notes Accessories 3 Standard auxiliary contact → 072896 5 Trip-indicating auxiliary contact → 072898 6 Shunt release, undervoltage release → 073187 Phase failure sensitivity to IEC/EN 60947-4-1, VDE 0660 part 102 Can be snap-fitted to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height → 266165 PTB 10 ATEX 3012, see manual				

Approvals

Product Standards
UL File No.
UL CCN
CSA File No.
CSA Class No.
NA Certification
Specially designed for NA
Suitable for

UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking
E36332
NLRV
12528
3211-05
UL listed, CSA certified
No
Branch circuit: Manual type E if used with terminal, or suitable for group installations

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	θ	°C	-40 - +80
Open		°C	-20 - +55
Enclosed		°C	-20 - +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	15
Altitude		m	2000
Terminal capacities		mm ²	
Solid		mm ²	1 x (1 - 50) 2 x (1 - 35)
Flexible with ferrule		mm ²	1 x (1 - 35) 2 x (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	f	Hz	40 - 60
Current heat loss (3 pole at operating temperature)		W	6
Lifespan, mechanical	Operations	x 10 ⁶	0.03
Lifespan, electrical	Operations		30000
Maximum operating frequency		Ops./ h	
Max. operating frequency		Ops./ h	40
Motor switching capacity		kA _{rms}	
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

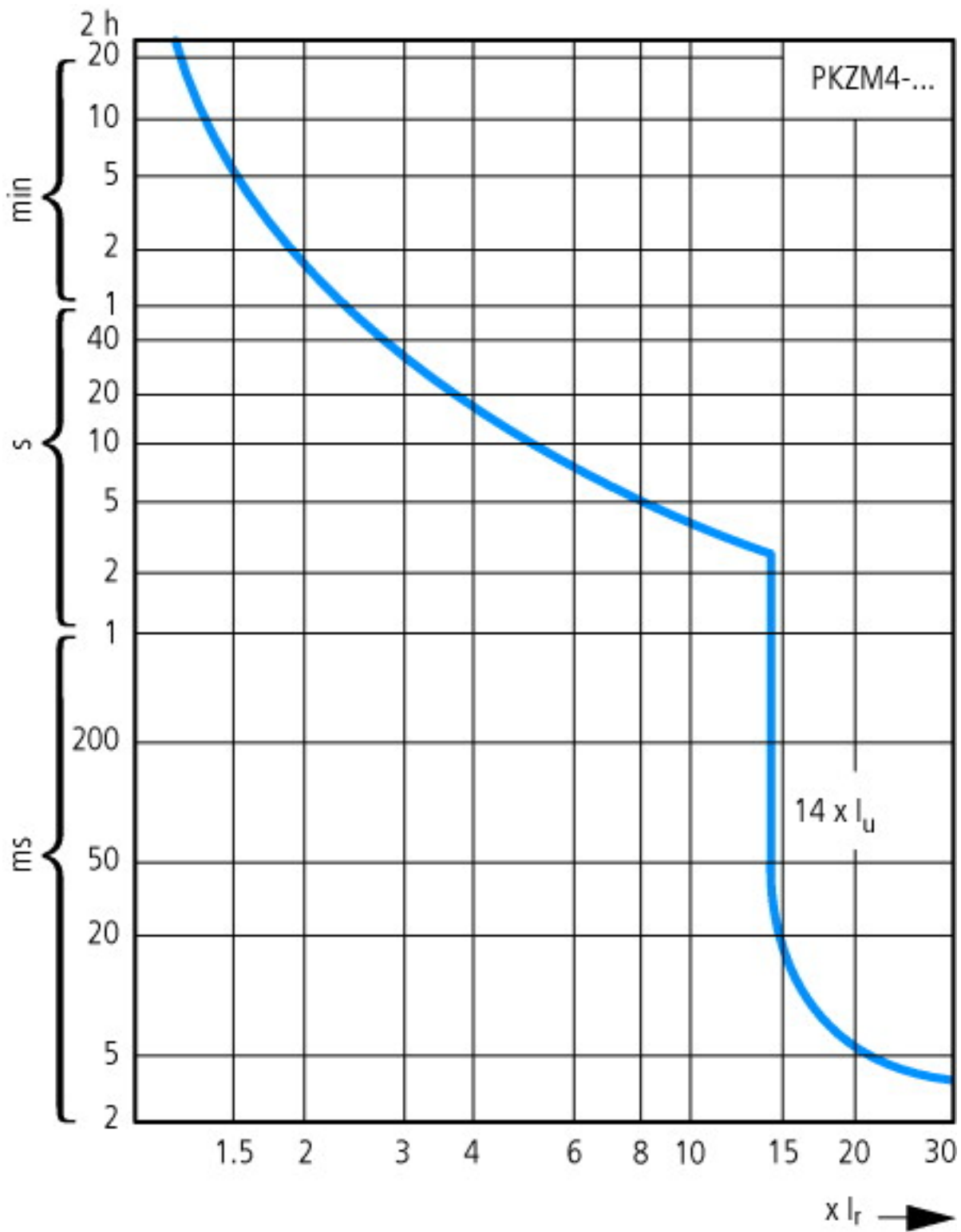
Temperature compensation		°C	-5 - +40 (to IEC/EN 60947, VDE 0660) -25 - +55 (operating range)
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Temperature compensation residual error for T > 40°			$\leq$ 0.25%/K
Setting range of overload releases			0.6 - 1 x I _U
Fixed short-circuit release			Basic device 14 x I _U
Short-circuit release tolerance			± 20%
Phase-failure sensitivity			IEC/EN 60947-1-1, VDE 0660 Part 102

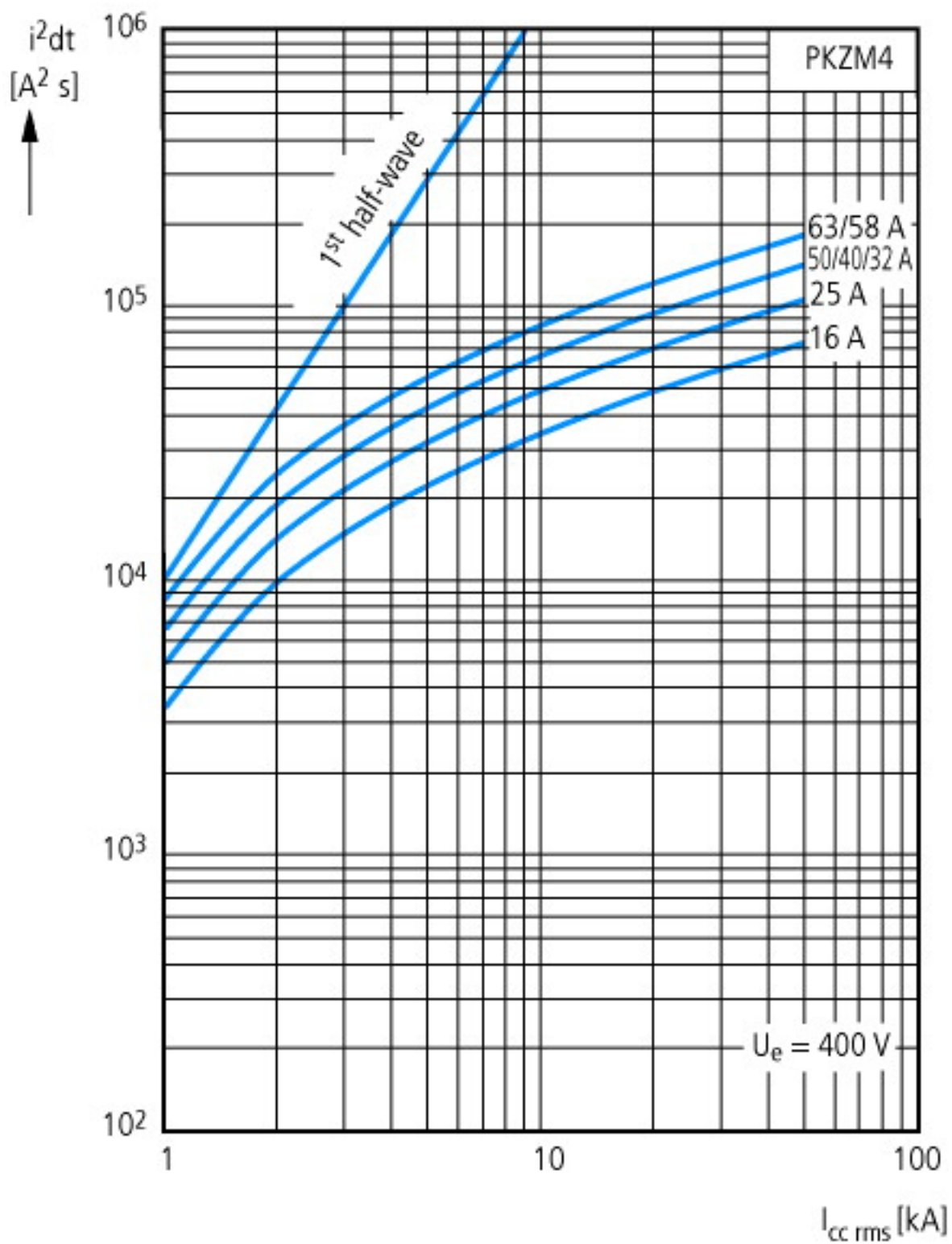
Technical data ETIM 4.0

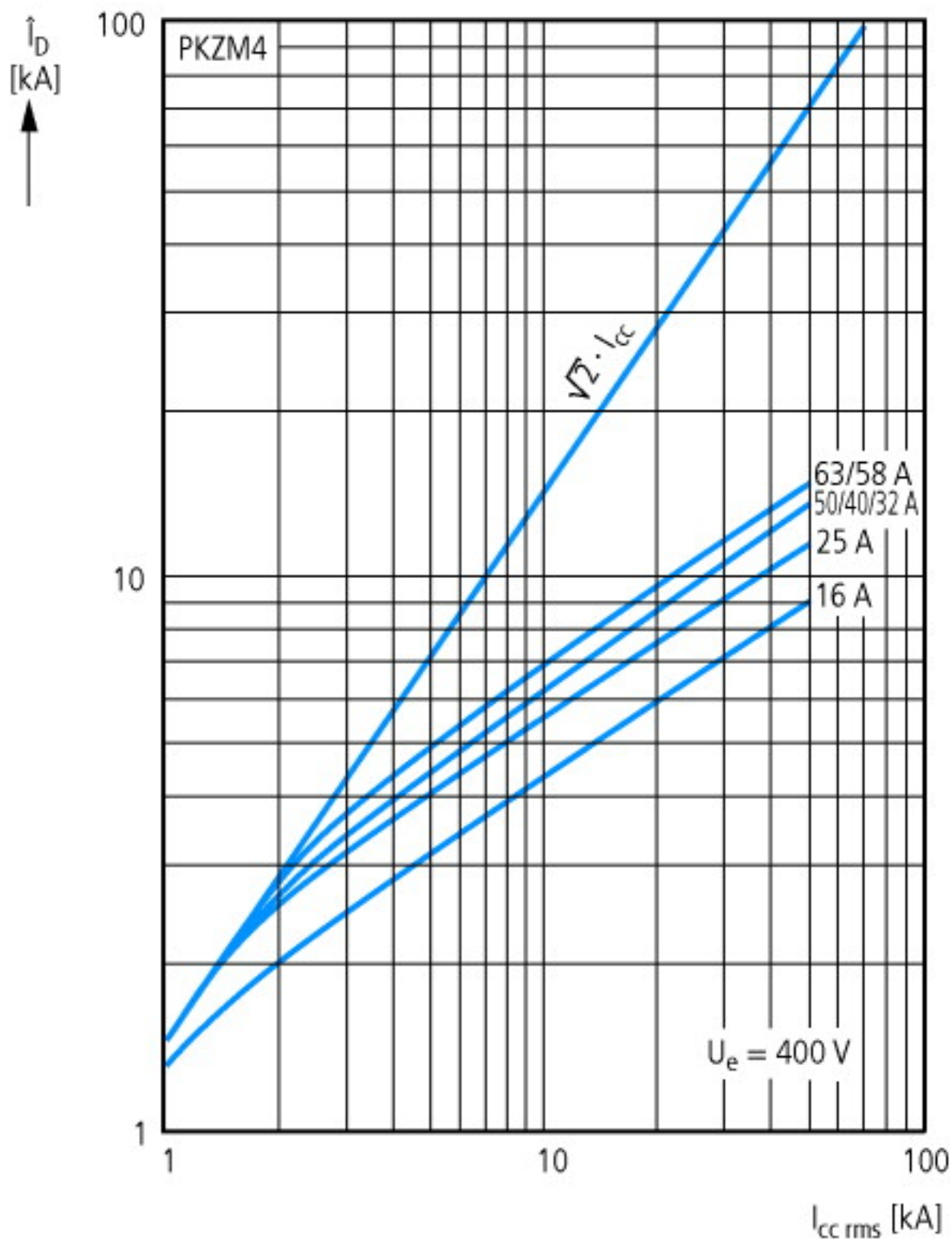
Rated operation power at AC-3, 400 V		kWh	30
With integrated auxiliary switch			No
Rated permanent current I _u		A	58
With integrated under voltage release			No
Number of poles			3
Degree of protection (IP)			IP20
Connection type main current circuit			Screw connection

Characteristics



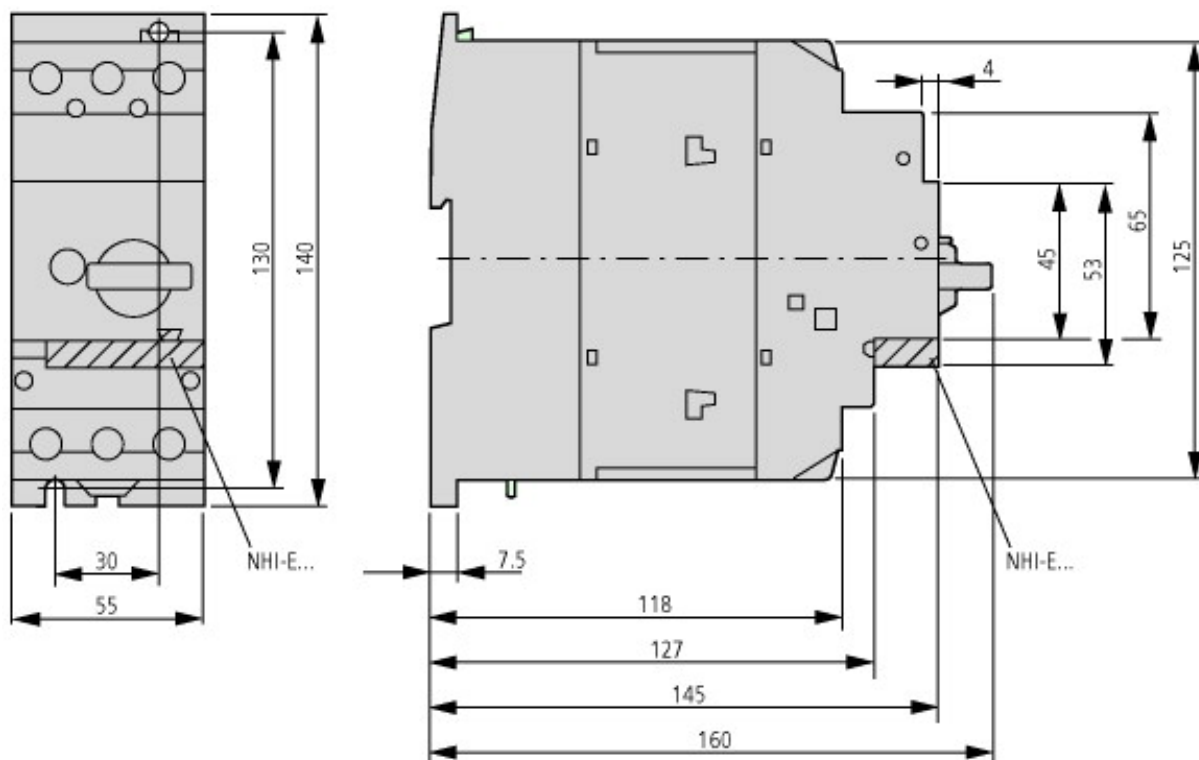
Tripping characteristics



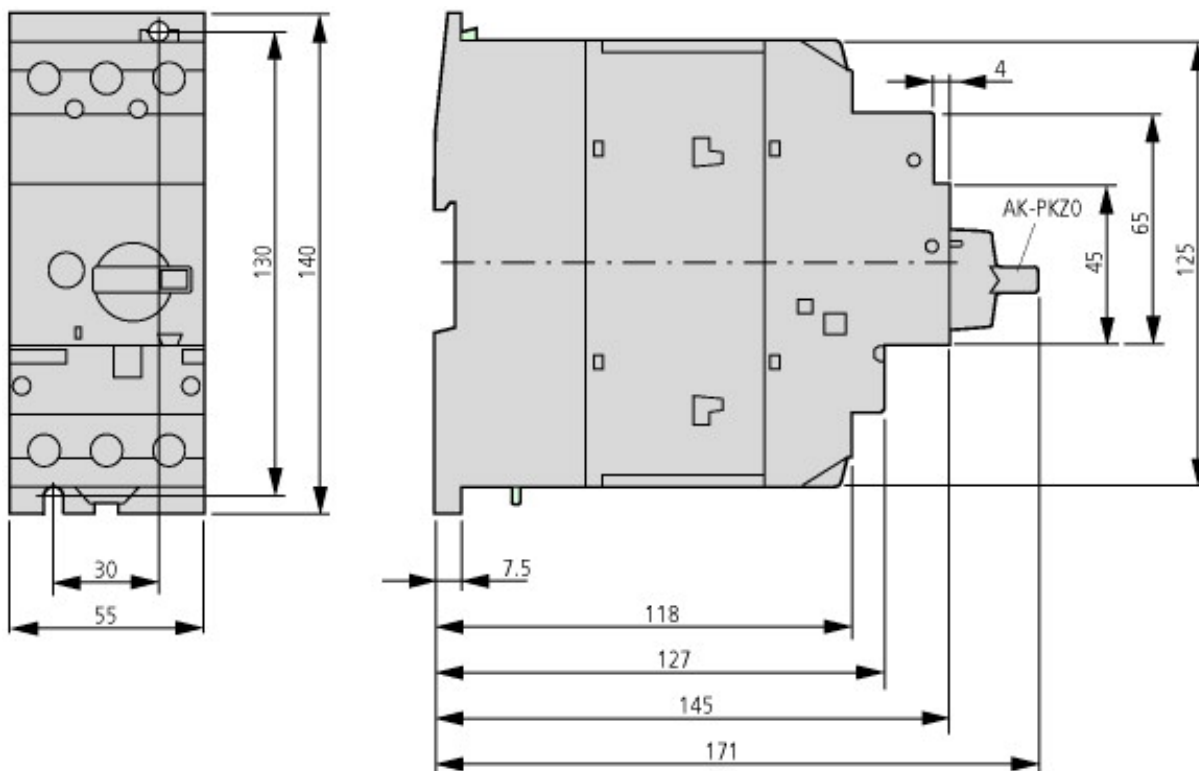


Let-through characteristics

Dimensions



Motor-protective circuit-breakers with lockable cover



PKZM4-... +AK-PKZO

Additional product information (links)

IL03407012Z (AWA1210-1859) Motor-protective circuit-breaker

IL03407012Z (AWA1210-1859) Motor-protective circuit-breaker

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407012Z2010_08.pdf

MN03402002Z-DE/EN (AWB1210-1457) PKZM4 motor-protective circuit-breakers, overload monitoring of Ex e motors

MN03402002Z-DE/EN (AWB1210-1457) PKZM4 motor-protective circuit-breakers, overload monitoring of Ex e motors - Deutsch / English

ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN03402002Z_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

