



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



Powering Business Worldwide™

Part no. PKZM0-6,3-T
Article no. 088915

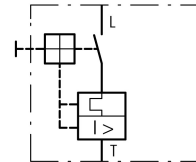
Catalog No. XTPT6P3BC1NL

Delivery programme

Product range

Basic function
Connection technique
Contact sequence

PKZM0...T transformer-protective circuit-breakers up to 25 A
Transformer protection
Screw terminals



Setting range

Overload releases I_r A 4 - 6.3



Short-circuit releases



max. I_{rm} A 141

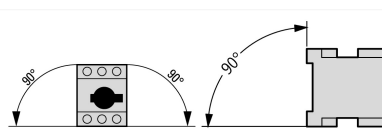
Notes

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.

Approvals

Specially designed for North America 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	g °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
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			
DC			→ Engineering
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			$\frac{\Delta I_u}{I_u}$ 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 ETIM 5.0

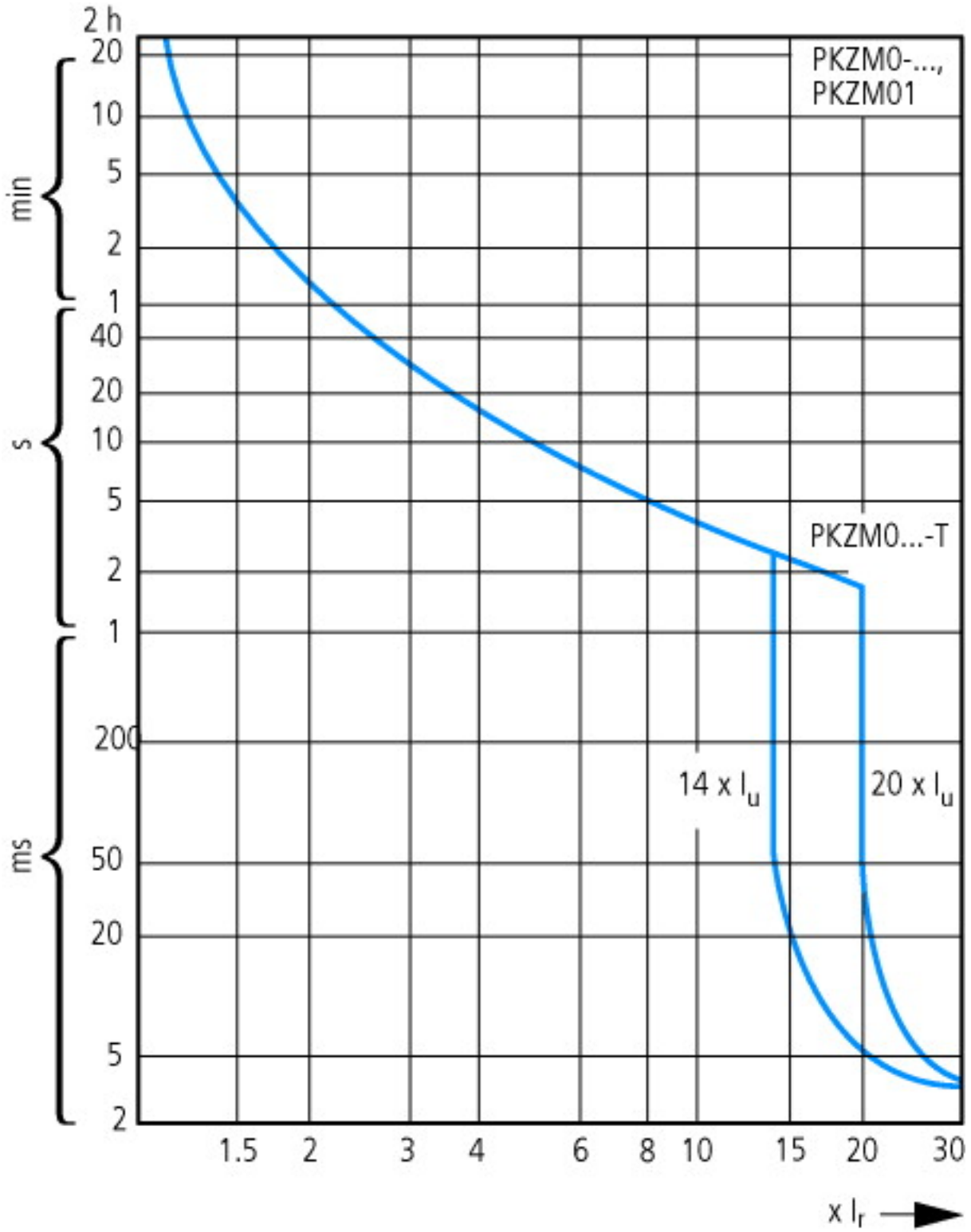
Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation prot. (EC000228)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Circuit breaker for power transformer, generator and system protection (ecl@ss8-27-37-04-09 [AJZ716009])

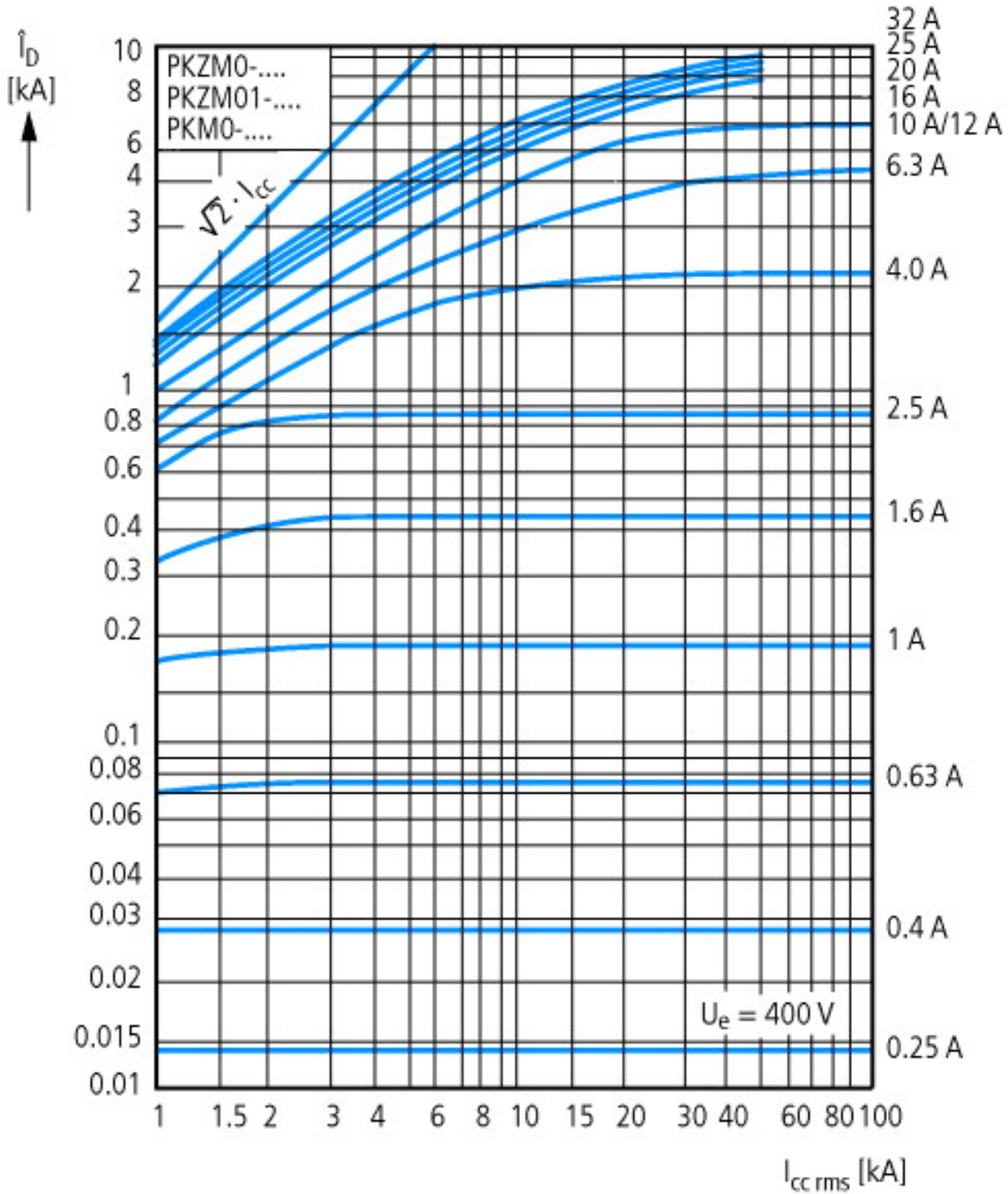
Rated permanent current I_u	A	6.3
Rated short-circuit breaking capacity I_{cu} at 400 V, 50 Hz	kA	150
Setting range overload protector	A	4 - 6.3
Adjustment range short-term delayed short-circuit release	A	0 - 0
Adjustment range undelayed short-circuit release	A	141 - 141
Integrated earth fault protection		No
Connection type main current circuit		Screw connection
Device construction		-
Suitable for DIN rail (top hat rail) mounting		Yes
Number of auxiliary contacts as normally closed contact		0
Number of auxiliary contacts as normally open contact		0
Number of auxiliary contacts as change-over contact		0
Switched-off indicator available		Yes
With under voltage release		No
Number of poles		3
Position of connection for main current circuit		Front connection
Type of control element		Turn button (knob)
Motor drive optional		No
Motor drive integrated		Yes
Degree of protection (IP)		IP20

Characteristics

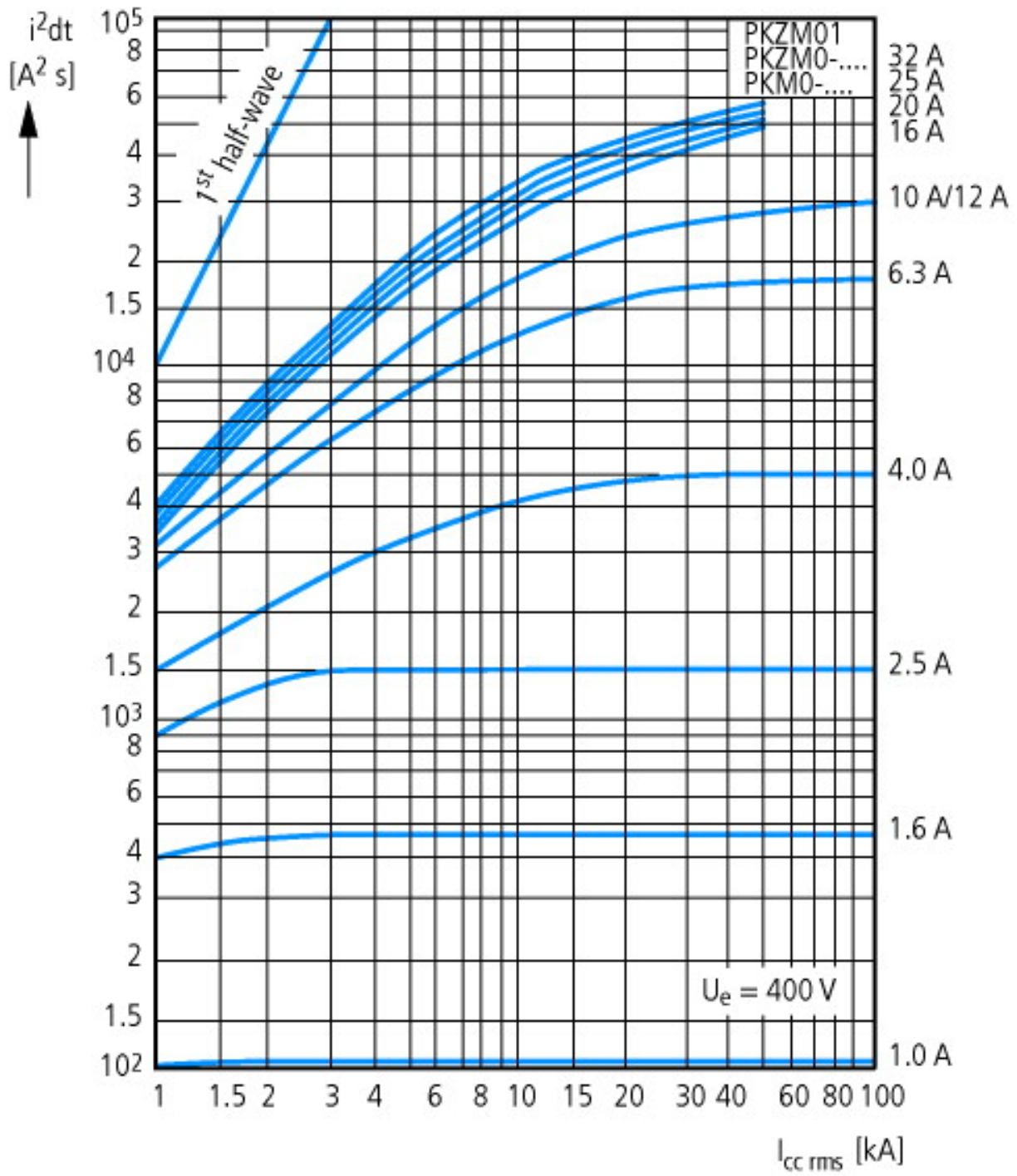
Characteristic curves



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



Let-through current



Let-through energy

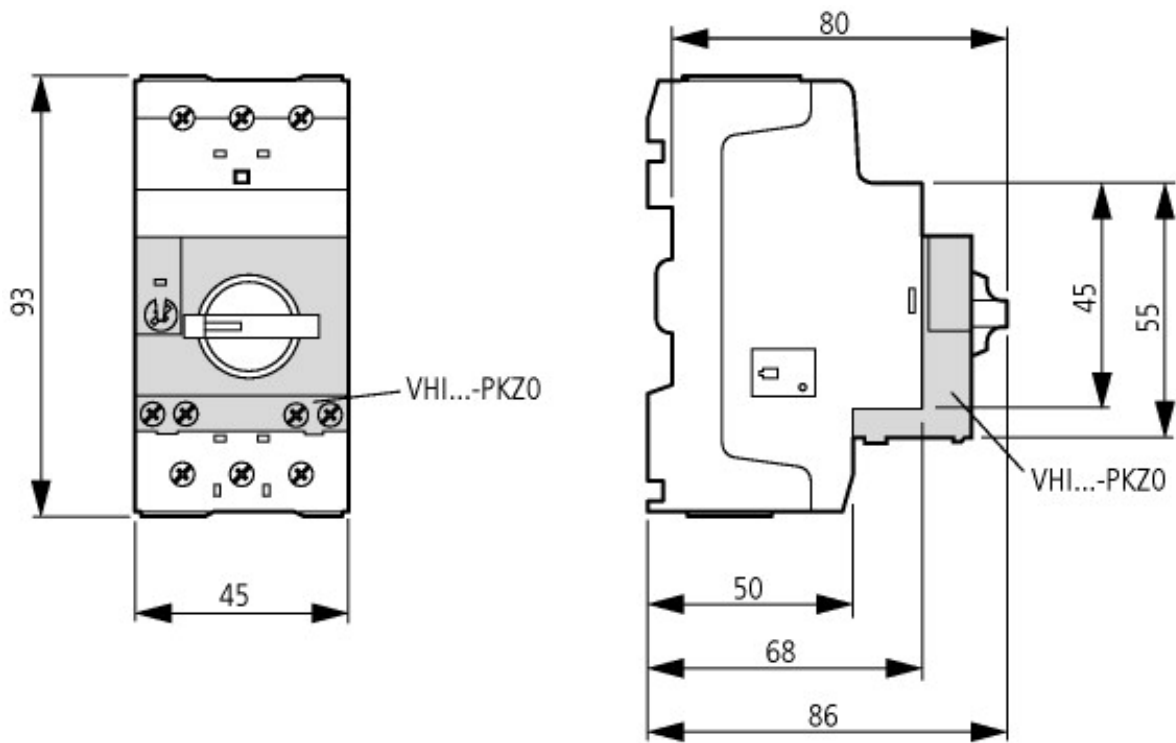
Dimensions



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