



PKE12 basic device



Powering Business Worldwide™

Part no. **PKE12**

Article no. **121721**

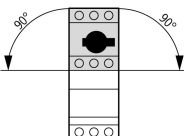
Program

Single unit/Complete unit			Element
Setting range of useable overload releases	I_r	CSA	0,3 - 12
Setting range of overload releases	I_r	A	0.3-12
Function			Without overload releases
Motor output/rated motor current			
Motor rating	AC-3 rated motor current		
	220, 230 240 V	380, 400, 415 V	440 V 500 V 660, 690 V
P [kW]	I [A]	I [A]	I [A]
0.75	3.2		
1.1	4.6		
1.5	6.3	3.6	3.3
2.2	8.7	5	4.6 4
3	11.5	6.6	6 5.3
4		8.5	7.7 6.8
5.5		11.3	10.2 9
7.5			
			3.8 4.9 6.5 8.8

Approbationen

UL approval	Yes
CSA approval	Yes
Product Standards	UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking
NA Certification	Request filed for UL and CSA
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	-20 - +80
Open	°C	-20 - +55
Enclosed	°C	-20 - +40
Mounting position		
Direction of incoming supply		as required
Degree of protection		
Device		IP20
Terminations		IP00
EN50274 busbar tag shroud		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
Terminal capacity springloaded terminals		
Solid	mm ²	1 x (1...2.5) 2 x (1...2.5)
Flexible with ferrule to DIN 46228	mm ²	1 x (1...2.5)

			2 x (1...2.5)
Solid or stranded		AWG	18...14
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_b	V AC	690
Rated uninterrupted current = rated operational current	$I_u = I_e$	A	12
Rated frequency	f	Hz	40 - 60
Current heat loss (3 pole at operating temperature)		W	6
Lifespan, mechanical	Operations	x 10^6	0.05
Lifespan, electrical (AC-3 at 400 V)	Operations	x 10^6	0.05
Maximum operating frequency		Ops./ h	
Max. operating frequency		Ops./ h	60
Motor switching capacity		kA_{rms}	
AC-3 (up to 690 V)		A	12

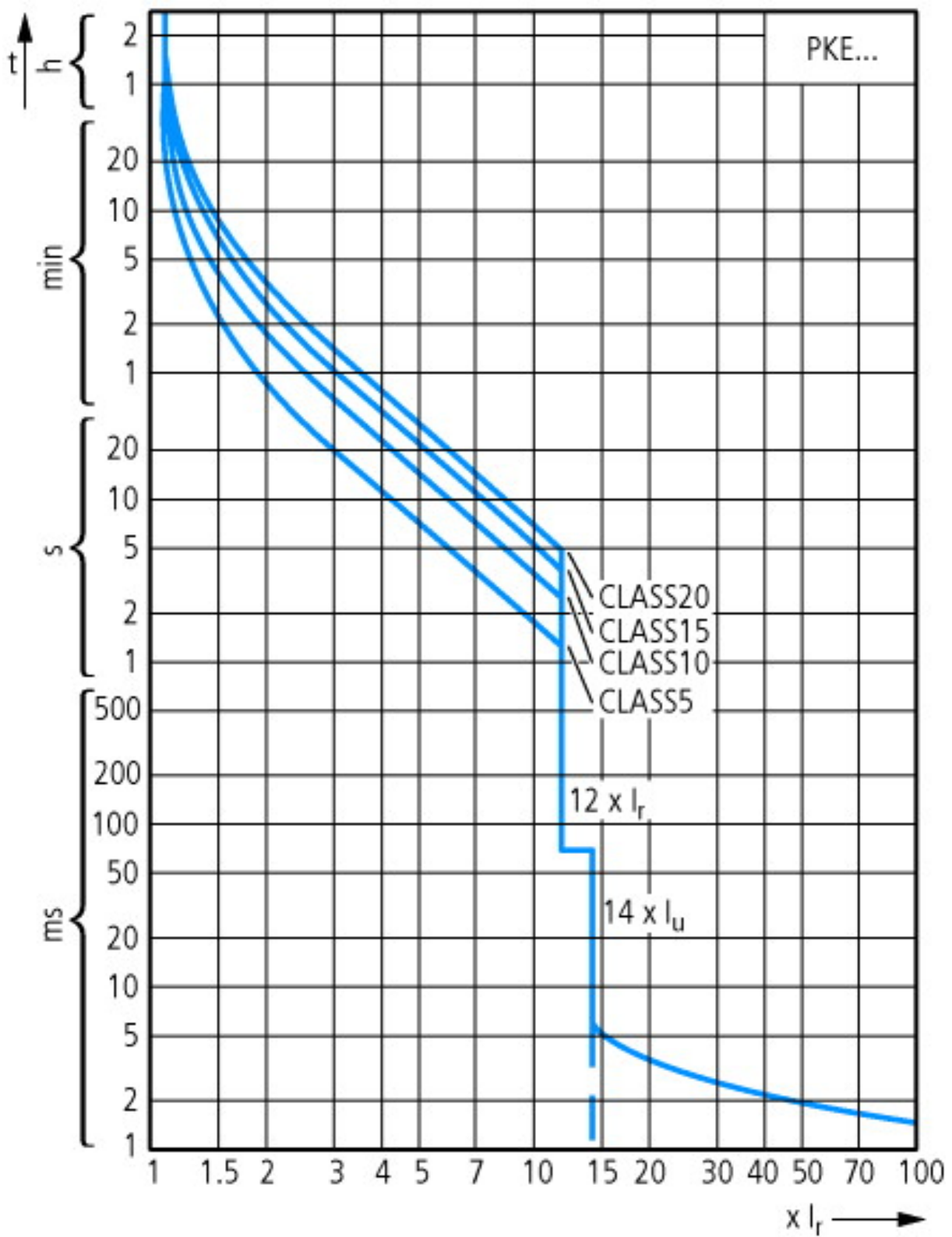
Trip blocks

Temperature compensation		°C	-5 – 40 (to IEC/EN 60947, VDE 0660) -25 – 55 (operating range)
Temperature compensation residual error for $T > 40$ °C			$\pm 0.1\%/K$
Setting range of overload releases			$0.25 - 1 \times I_u$
Fixed short-circuit release			Basic device $14 \times I_u$
Short-circuit release tolerance			$\pm 20\%$
Phase-failure sensitivity			yes

Technical data according to ETIM 4.0

Rated operation power at AC-3, 400 V		kWh	0
With integrated auxiliary switch			No
Rated permanent current I_u		A	12
With integrated under voltage release			No
Number of poles			3
Degree of protection (IP)			IP20
Connection type main current circuit			Screw connection

Characteristics



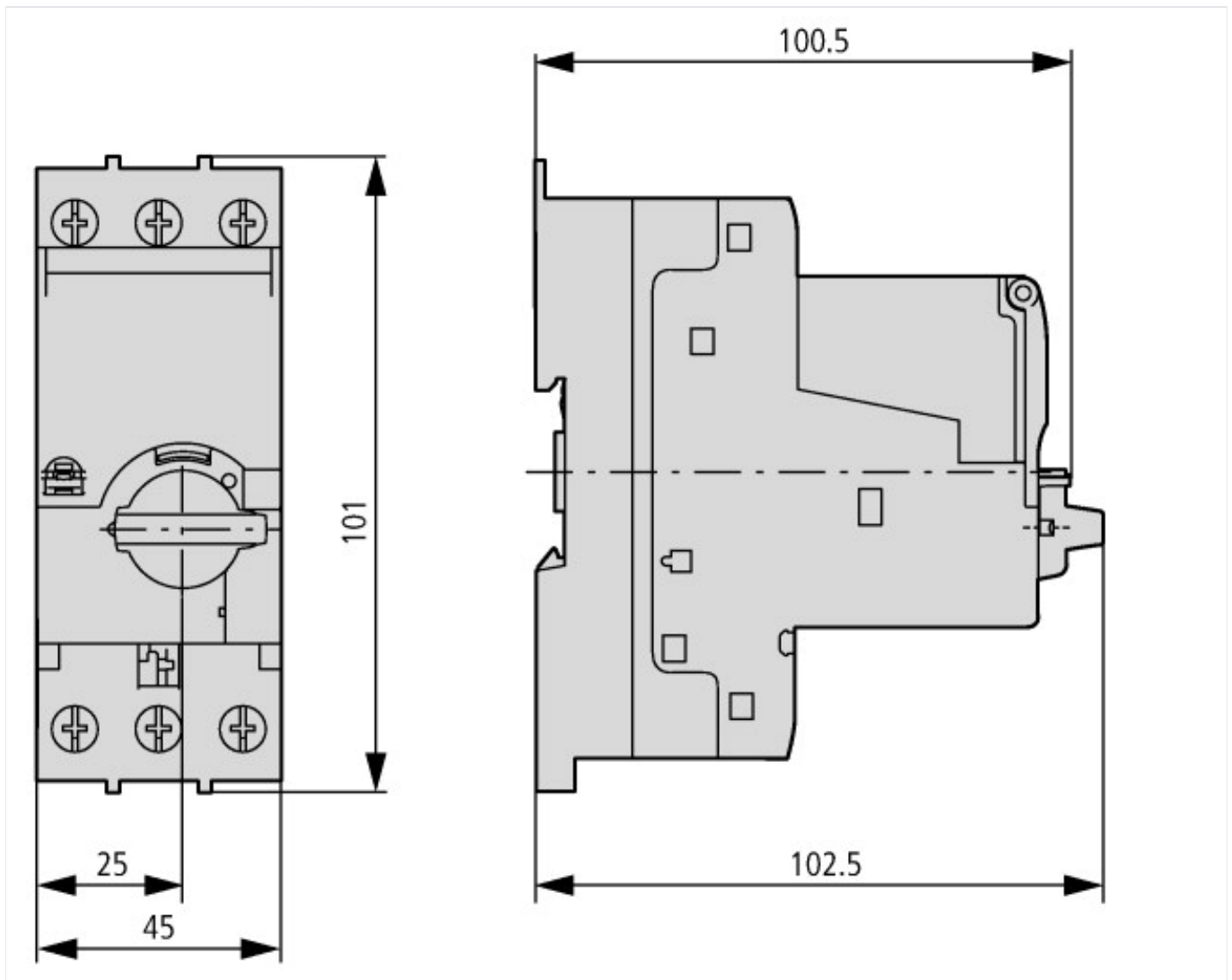
Tripping characteristic curves, wide-range circuit breaker PKE

CAD-Data

Product standards CAD data:

<http://eaton-moeller.partcommunity.com>

Dimensions



Additional product information (links)

AWA1210-2490 PKE motor protective circuit breakers with electronic wide-range overload protection	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/24901109.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