



PKE12 + trip block Standard 3-12A

Part no. PKE12/XTU-12

Article no. 121733

Program

Single unit/Complete unit			Complete unit
Setting range of overload releases	I_r	A	3–12
Function			With overload release
Motor rating			
AC-3			
220/230 V	P	kW	3
400 V	P	kW	5.5
690 V	P	kW	7.5
Motor output/rated motor current			
Motor power	AC-3 rated motor current		
	220, 230 240 V	380, 400, 415 V	440 V
	I [A]	I [A]	I [A]
P [kW]			
0.75	3.2		
1.1	4.6		
1.5	6.3	3.6	3.3
2.2	8.7	5	4.6
3	11.5	6.6	6
4		8.5	7.7
5.5		11.3	10.2
7.5			
			500 V
			I [A]
			660, 690 V
			I [A]
			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 _e	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

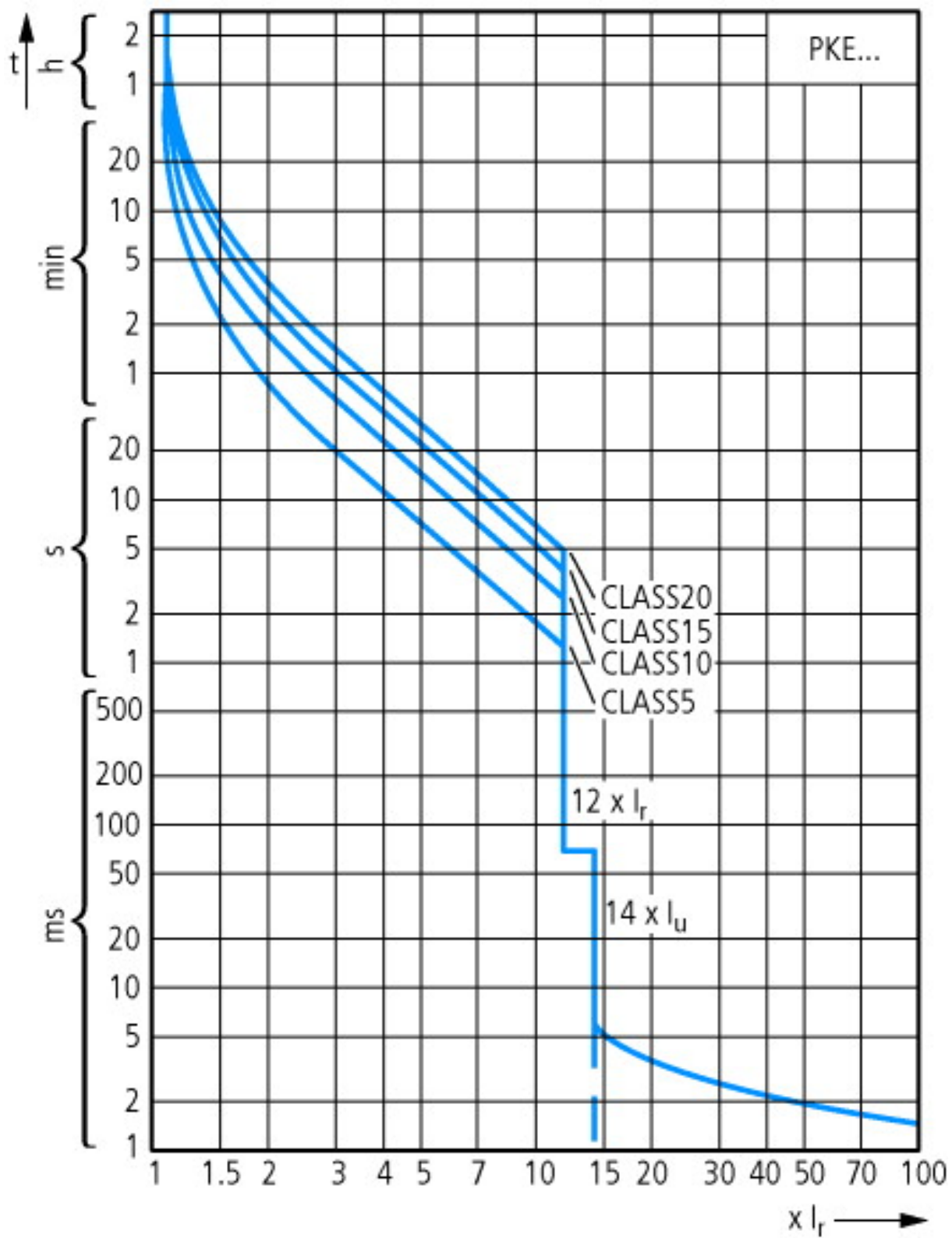
Trip blocks

Temperature compensation		°C	-5 – 40 (to IEC/EN 60947, VDE 0660) -25 – 55 (operating range)
Temperature compensation residual error for T > 40 °C			≤ 0.1%/K
Setting range of overload releases			0.25 - 1 x I _u
Fixed short-circuit release			Basic device 14 x I _u Trip block 12 x I _r delayed approx. 60 ms
Short-circuit release tolerance			± 20%
Phase-failure sensitivity			yes

Technical data according to ETIM 4.0

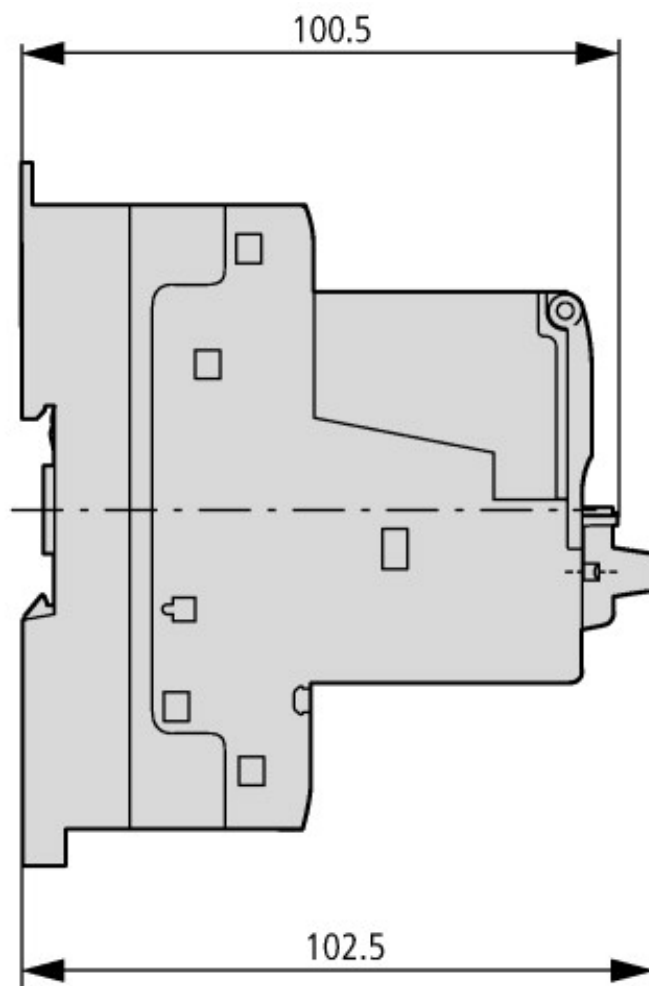
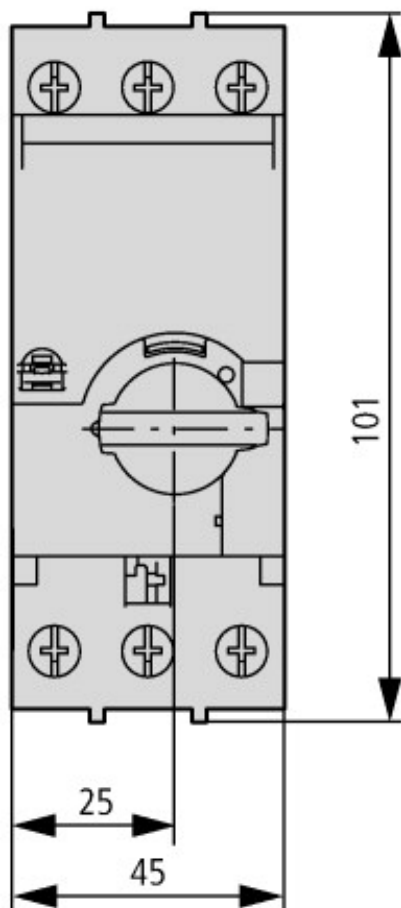
Rated operation power at AC-3, 400 V		kWh	5.5
With integrated auxiliary switch			No
Rated permanent current I _u		A	12
With integrated under voltage release			No
Number of poles			3
Degree of protection (IP)			IP20
Connection type main current circuit			Screw connection

Characteristics



Tripping characteristic curves, wide-range circuit breaker PKE

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