

## Trip block Advanced 1-4A



Powering Business Worldwide™

**Part no.**  
**Article no.**

**PKE-XTUA-4**  
**121728**

### Delivery programme

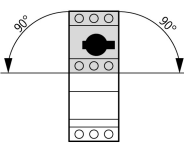
Accessories				Trip blocks
Setting range of overload releases	$I_r$	A		1 - 4
Expansions				With communication capability
Function				With overload release
Rated uninterrupted current	$I_u$	A		4
Motor rating				
AC-3				
220 V 230 V	P	kW		0.75
380 V 400 V	P	kW		1.5
440 V	P	kW		1.5
500 V	P	kW		2.2
660 V 690 V	P	kW		3
For use with				PKE12 basic device
Motor output/rated motor current				
<b>Motor power</b>	<b>AC-3 rated motor current</b>			
	220, 230 V	380, 400, 415 V	440 V	500 V
	240 V			660, 690 V
0.18	1.04			
0.25	1.4			
0.37	2	1.1	1.02	
0.55	2.7	1.5	1.39	1.2
0.75	3.2	1.9	1.68	1.5
1.1		2.6	2.41	2.1
1.5		3.6	3.28	2.9
2.2				4
3				

### Approvals

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

UL 508; CSA-C22.2 No. 14-10; IEC60947-4-1; CE marking  
E36332  
NLRV  
12528  
3211-05  
UL listed, CSA certified  
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	-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	25
Altitude		m	2000

Terminal capacity screw terminals		mm <sup>2</sup>	
Solid		mm <sup>2</sup>	1 x (1 - 6) 2 x (1 - 6)
Flexible with ferrule to DIN 46228		mm <sup>2</sup>	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	4
Rated frequency	f	Hz	40 - 60
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 <sub>rms</sub>	
AC-3 (up to 690 V)		A	4

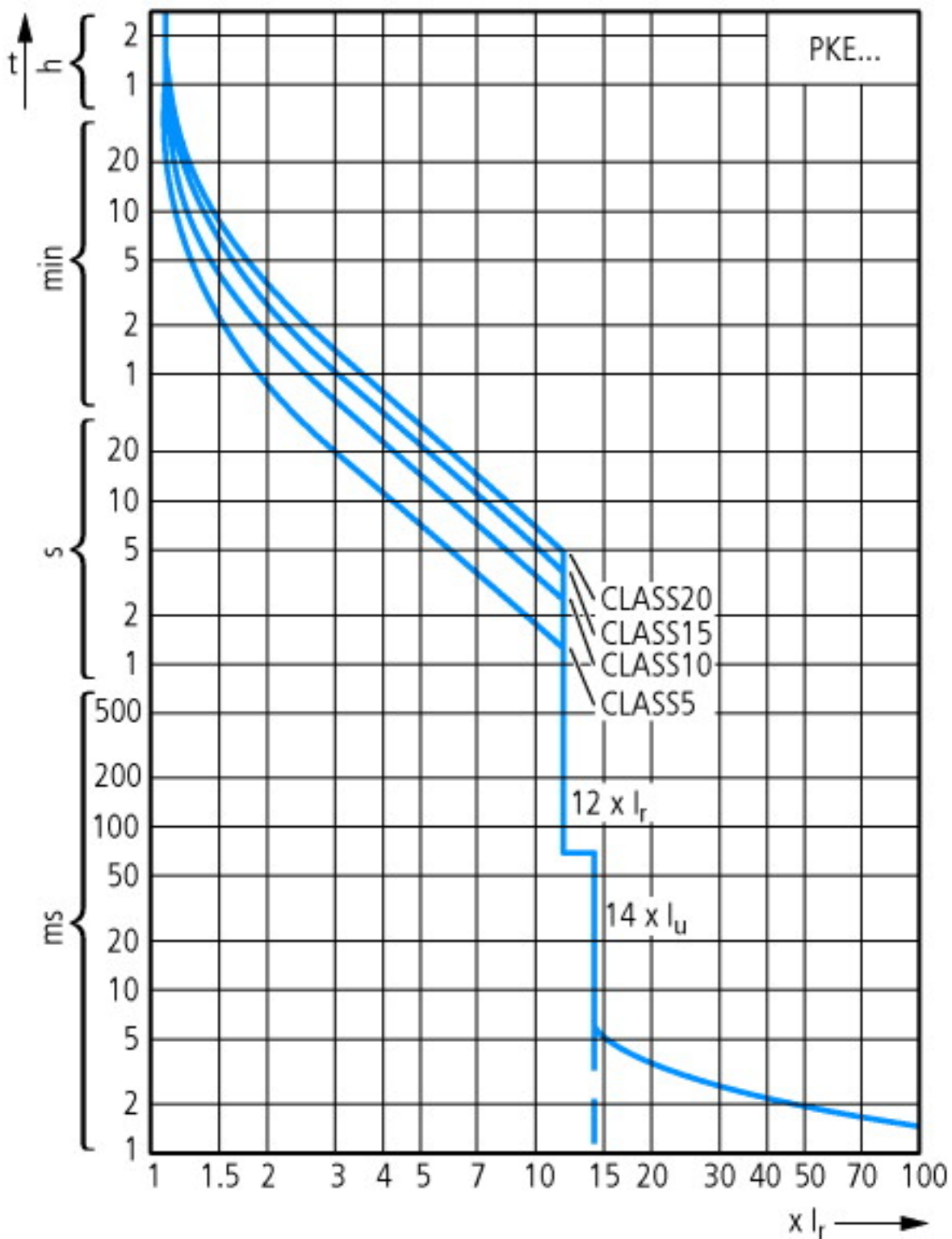
### Trip blocks

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 x $I_u$
Fixed short-circuit release			Trip block 12 x $I_r$ delayed approx. 60 ms
Short-circuit release tolerance			$\pm 20\%$
Phase-failure sensitivity			yes

### Technical data ETIM 4.0

Final value of non-delayed short-circuit release setting range		A	48
Initial value of non-delayed short-circuit release setting range		A	1
Setting range of overload releases		A	4
Short-circuit release function			Delayed
Number of poles			3
Rated uninterrupted current $I_u$		A	4

### Characteristics



Tripping characteristic curves, wide-range circuit breaker PKE

### Additional product information (links)

#### IL03402019Z (AWA1210-2490) PKE motor-protective circuit-breaker with wide-range overload protection

IL03402019Z (AWA1210-2490) PKE motor-protective circuit-breaker with wide-range overload protection

[ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL03402019Z2011\\_09.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402019Z2011_09.pdf)

#### IL03402023Z (AWA1210-2705) Trip block for solid-state motor-protective circuit-breaker

IL03402023Z (AWA1210-2705) Trip block for solid-state motor-protective circuit-breaker

[ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL03402023Z2011\\_08.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03402023Z2011_08.pdf)

#### MN03402004Z-DE/EN Motor-protective circuit-breaker PKE12 and PKE32; Overload monitoring of Ex e motors

MN03402004Z-DE/EN Motor-protective circuit-breaker PKE12 and PKE32; Overload monitoring of Ex e motors - Deutsch / English

[ftp://ftp.moeller.net/DOCUMENTATION/AWB\\_MANUALS/MN03402004Z\\_DE\\_EN.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN03402004Z_DE_EN.pdf)

Motor starters and "Special Purpose Ratings" for the North American market

[http://www.moeller.net/binary/ver\\_techpapers/ver953en.pdf](http://www.moeller.net/binary/ver_techpapers/ver953en.pdf)



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