PKE32 basic device

Part no. PKE32

Article no. 121722

Powering Business Worldwide™

Program

Single unit/Complete unit			Element
Setting range of useable overload releases	I_r	CSA	8 - 32
Setting range of overload releases	I_r	A	8–32
Function			Without overload releases

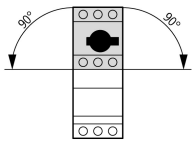
Motor output/rated motor current

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]	I [A]	I [A]
2.2	8.7				
3	11.5				
4	14.8	8.5			
5.5	19.6	11.3	10.2	9	
7.5	26.4	15.2	13.8	12.1	8.8
11		21.7	19.8	17.4	12.6
15		29.3	26.6	23.4	17
18.5				28.9	20.9
22					23.8
30					32

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	32
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	32

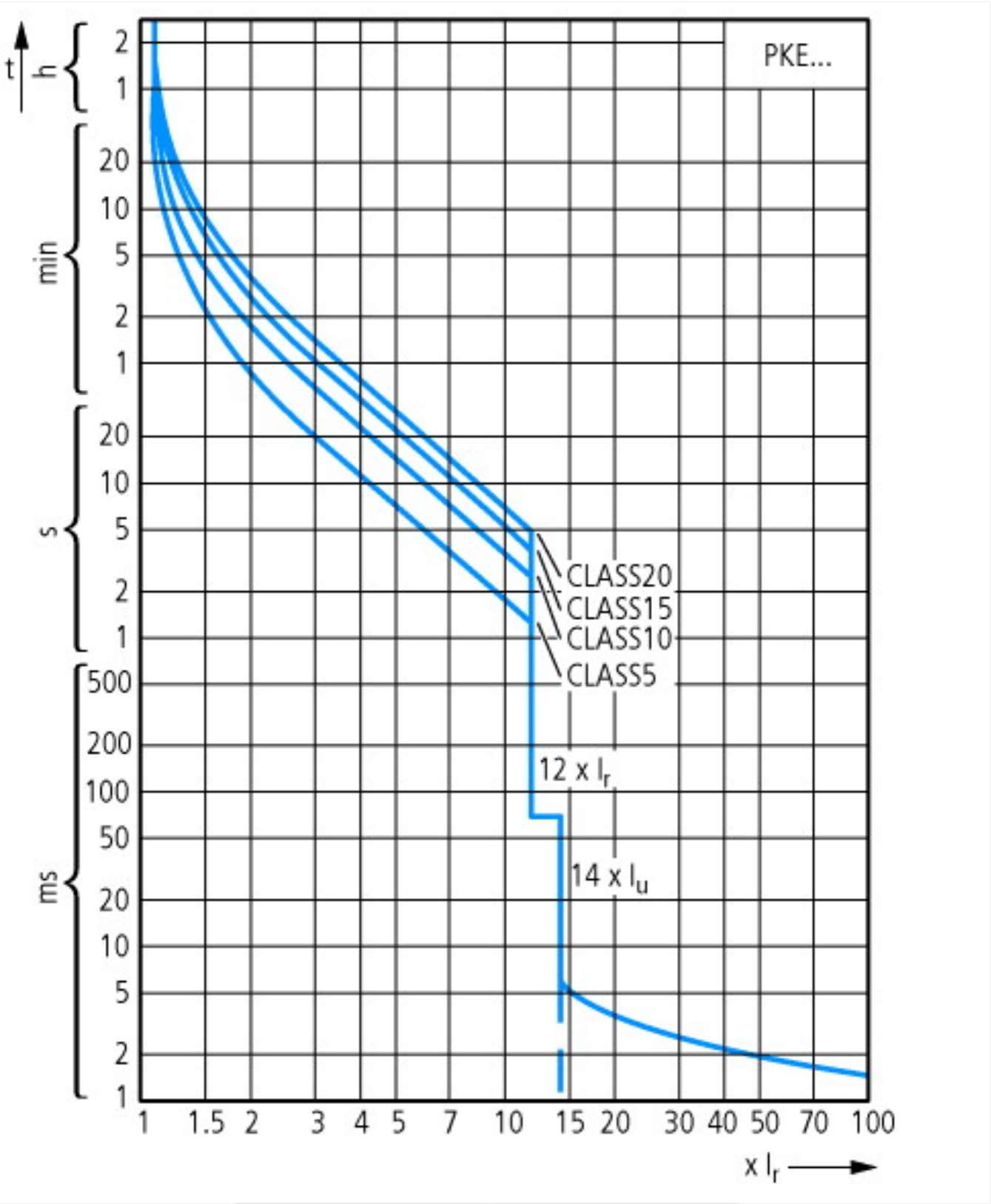
Trip blocks

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
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	0
With integrated auxiliary switch			No
Rated permanent current Iu		A	32
With integrated under voltage release			No
Number of poles			3
Degree of protection (IP)			IP20
Connection type main current circuit			Screw connection

Characteristics

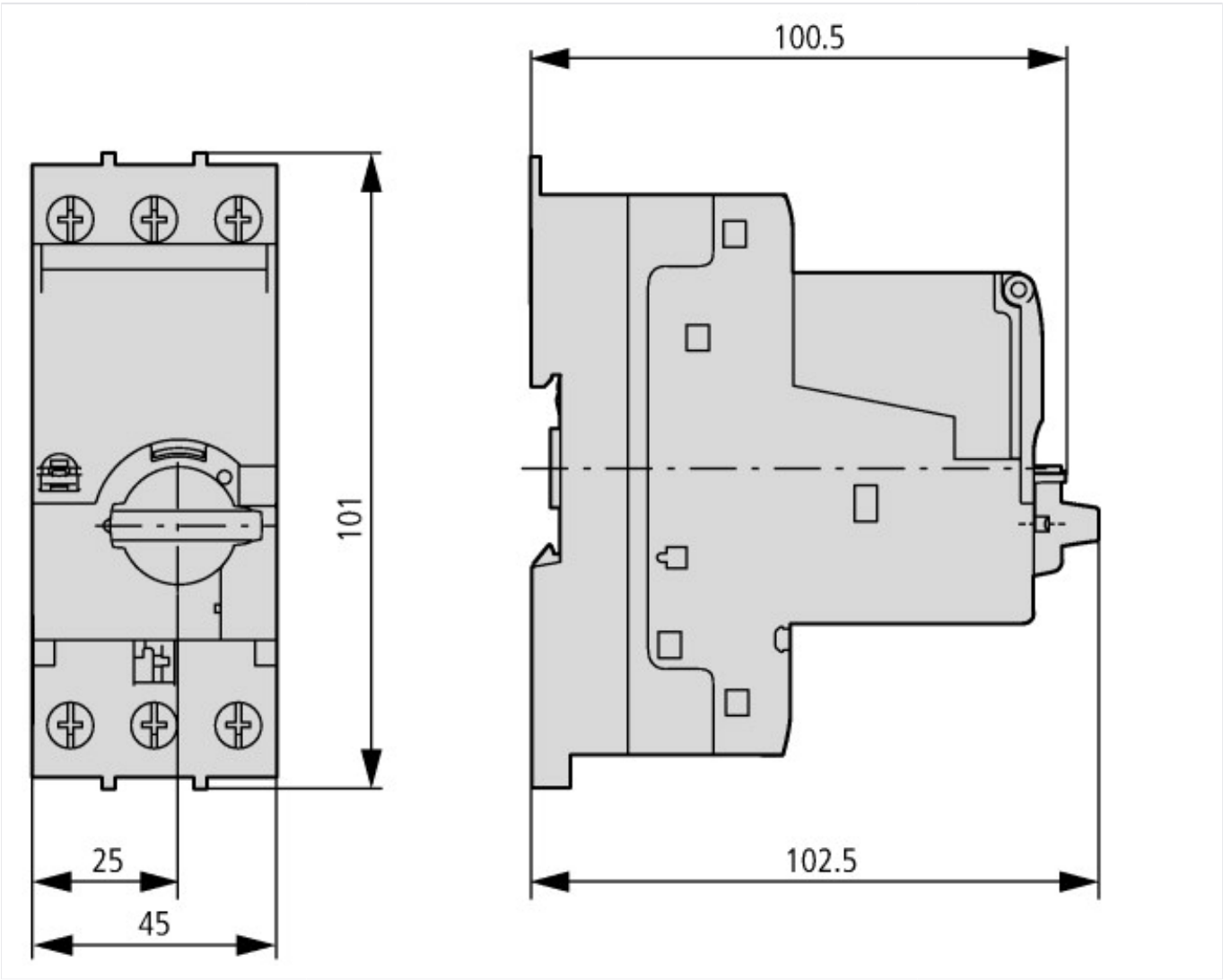


Tripping characteristic curves, wide-range circuit breaker PKE

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

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