



Motor-protective circuit-breaker, 3p, +control option 8-32A

Part no. PKE65/XTUW-32
Catalog No. 138517
Alternate Catalog No. XTPE032DCSNL
EL-Nummer (Norway) 4355189



Powering Business Worldwide™

Delivery program

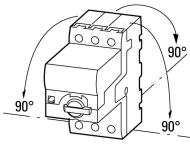
Product range	PKE motor-protective circuit-breaker with electronic wide-range overload protection up to 65 A				
Basic function	Motor protection Motor protection for heavy starting duty				
Single unit/Complete unit	Complete device with standard knob				
					
Notes	Also suitable for motors with efficiency class IE3. IE3-ready devices are identified by the logo on their packaging.				
Setting range of overload releases		I_r	A	8 - 32	
Function	With overload release				
Rated uninterrupted current = rated operational current		$I_u = I_e$	A	32	
Motor rating					
AC-3					
220 V 230 V 240 V		P	kW	7.5	
380 V 400 V 415 V		P	kW	15	
440 V		P	kW	15	
500 V		P	kW	18.5	
660 V 690 V		P	kW	30	
Motor output/rated motor current					
Motor rating	Rated motor current				
AC-3					
220 V	380 V		440 V	500 V	660 V
230 V	400 V				690 V
240 V	415 V				
P	I	I	I	I	I
kW	A	A	A	A	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

Technical data

General

Standards		IEC/EN 60947, VDE 0660, UL, CSA
Climatic proofing		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature		
Storage	°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 when actuated from front (EN 50274)		Finger and back-of-hand proof
Mechanical shock resistance half-sinusoidal shock 10 ms to IEC 60068-2-27	g	15
Altitude	m	Max. 2000
Terminal capacity main cable		
Screw terminals		
Solid	mm ²	1 x (0.75 - 16) 2 x (0.75 - 16)
Flexible with ferrule to DIN 46228	mm ²	1 x (0.75 - 35) 2 x (0.75 - 25)
ein- oder mehrdrähtig	AWG	14 - 2
Stripping length	mm	14
Specified tightening torque for terminal screws		
Main cable	Nm	3.3
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	5.2
Lifespan, mechanical	Operations	x 10 ⁶	0.05
Lifespan, electrical (AC-3 at 400 V)			
Lifespan, electrical	Operations	x 10 ⁶	0.05
Max. operating frequency		Ops/h	60
Motor switching capacity			
AC-3 (up to 690V)	A		32
AC-4 cycle operation			
Minimum current flow times	ms		500 (Class 5) 700 (Class 10) 900 (Class 15) 1000 (Class 20)
Minimum cut-out periods	ms		500
Note	ms		In AC-4 cycle operation, going below the minimum current flow time can cause overheating of the load (motor). For all combinations with an SWD activation, you need not adhere to the minimum current flow times and minimum cut-out periods.

Trip blocks

Temperature compensation			
to IEC/EN 60947, VDE 0660	°C		- 5 ... 40
Operating range	°C		- 25 ... 55
Setting range of overload releases	x I _u		0.25 - 1
short-circuit release			Basic device, fixed: 15.5 x I _u Trip block, fixed: 15.5 x I _r delayed approx. 60 ms
Short-circuit release tolerance			± 20%
Phase-failure sensitivity			IEC/EN 60947-4-1, VDE 0660 Part 102

Rating data for approved types

Switching capacity		
Maximum motor rating		
Three-phase		

200 V 208 V	HP	7.5
230 V 240 V	HP	7.5
460 V 480 V	HP	20
575 V 600 V	HP	25
Single-phase		
115 V 120 V	HP	2
230 V 240 V	HP	3
General use	A	32
Short Circuit Current Rating, group protection	SCCR	
600 V High Fault		
SCCR (fuse)	kA	100
max. Fuse	A	200 Class J

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I _n	A	32
Heat dissipation per pole, current-dependent	P _{vid}	W	1.7
Equipment heat dissipation, current-dependent	P _{vid}	W	5.2
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	55
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
10.10 Temperature rise			The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

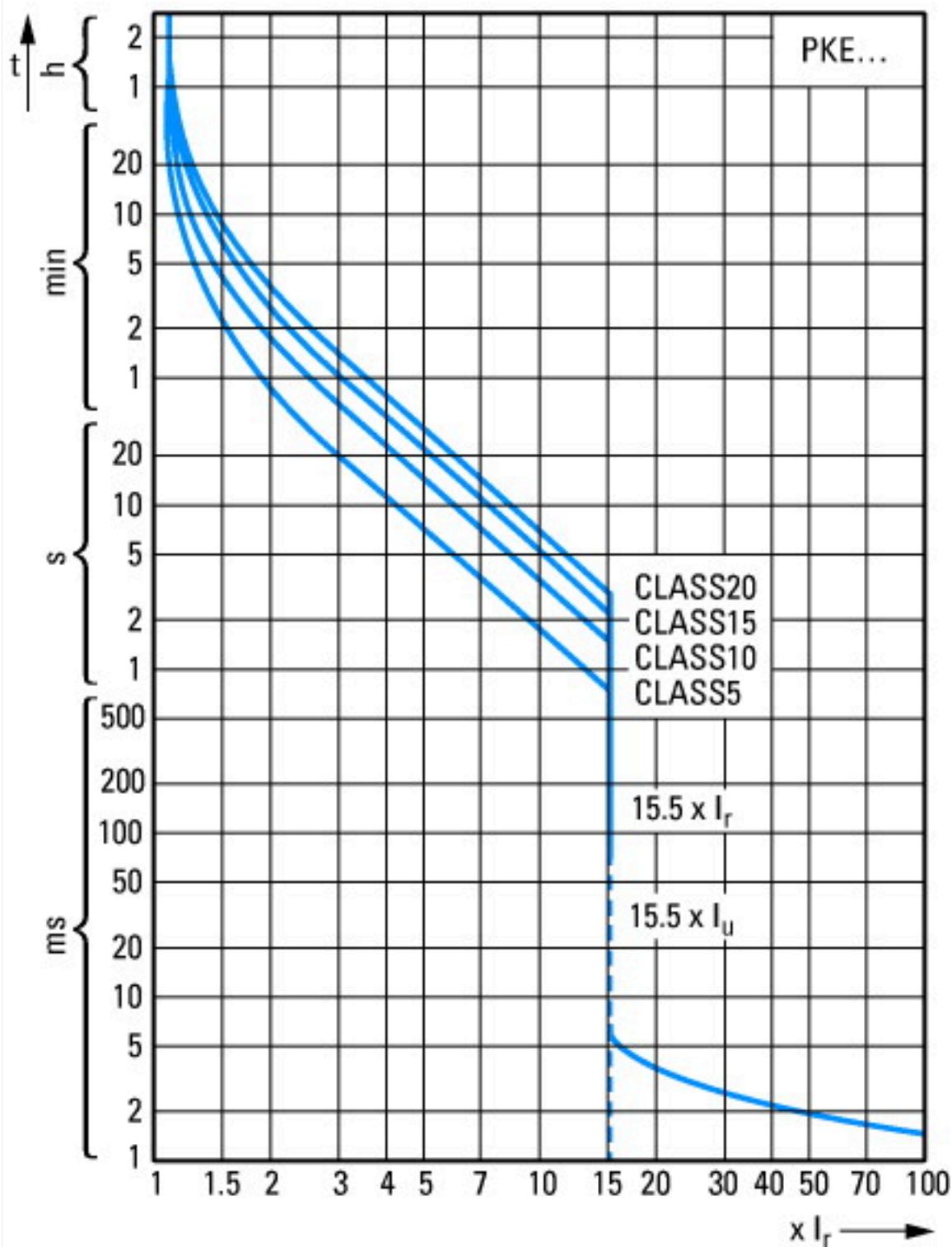
Technical data ETIM 7.0

Overload release current setting	A	8 - 32
Adjustment range undelayed short-circuit release	A	496 - 496
With thermal protection		Yes
Phase failure sensitive		Yes
Switch off technique		Electronic
Rated operating voltage	V	690 - 690
Rated permanent current I_{u}	A	32
Rated operation power at AC-3, 230 V	kW	7.5
Rated operation power at AC-3, 400 V	kW	15
Type of electrical connection of main circuit		Screw connection
Type of control element		Turn button
Device construction		Built-in device fixed built-in technique
With integrated auxiliary switch		No
With integrated under voltage release		No
Number of poles		3
Rated short-circuit breaking capacity I_{cu} at 400 V, AC	kA	0
Degree of protection (IP)		IP20
Height	mm	162
Width	mm	55
Depth	mm	187

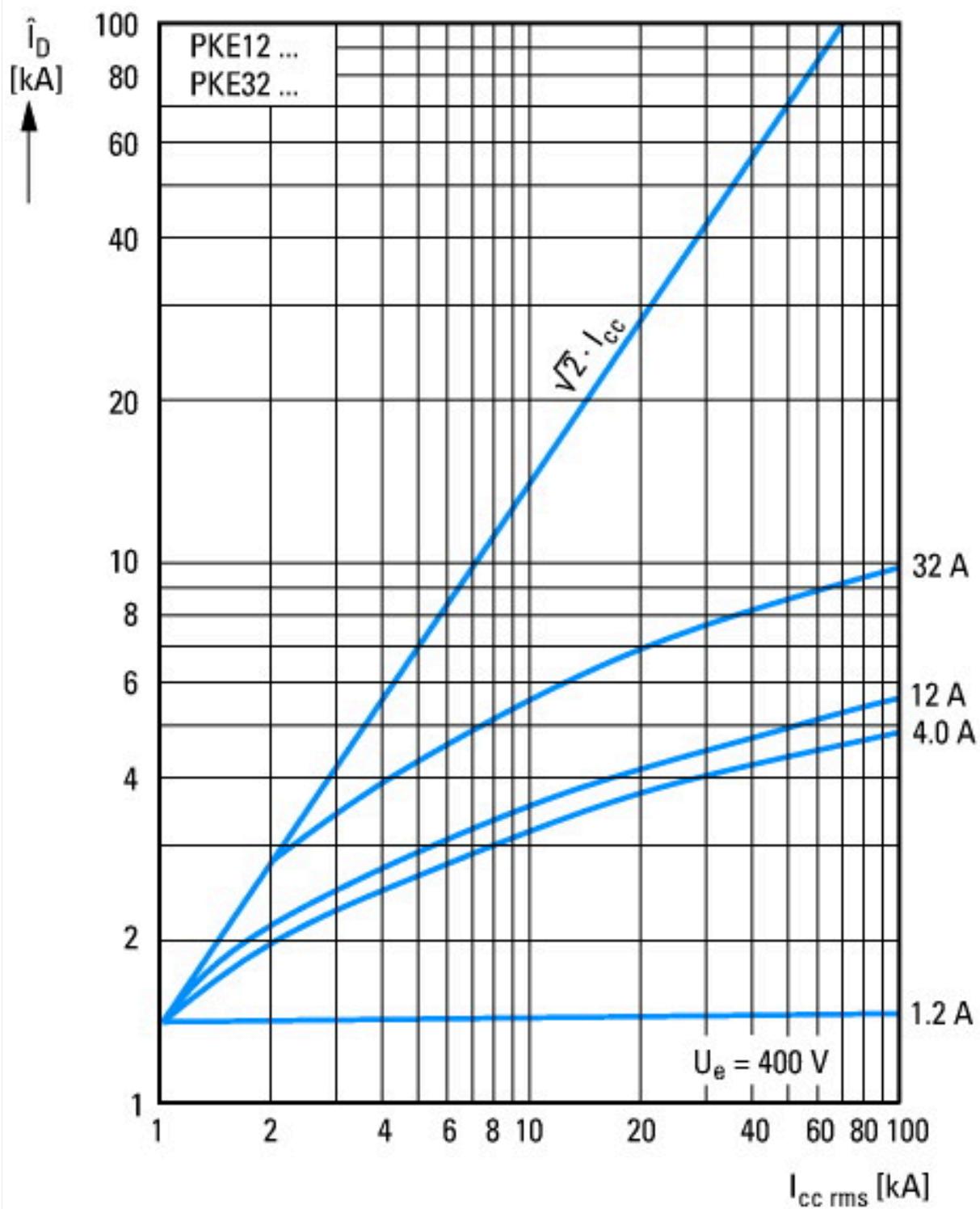
Approvals

Product Standards		IEC/EN 60947-4-1; UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14; CE marking
UL File No.		E36332
UL Category Control No.		NLRV
CSA File No.		165628
CSA Class No.		3211-05
North America Certification		UL listed, CSA certified
Specially designed for North America		No

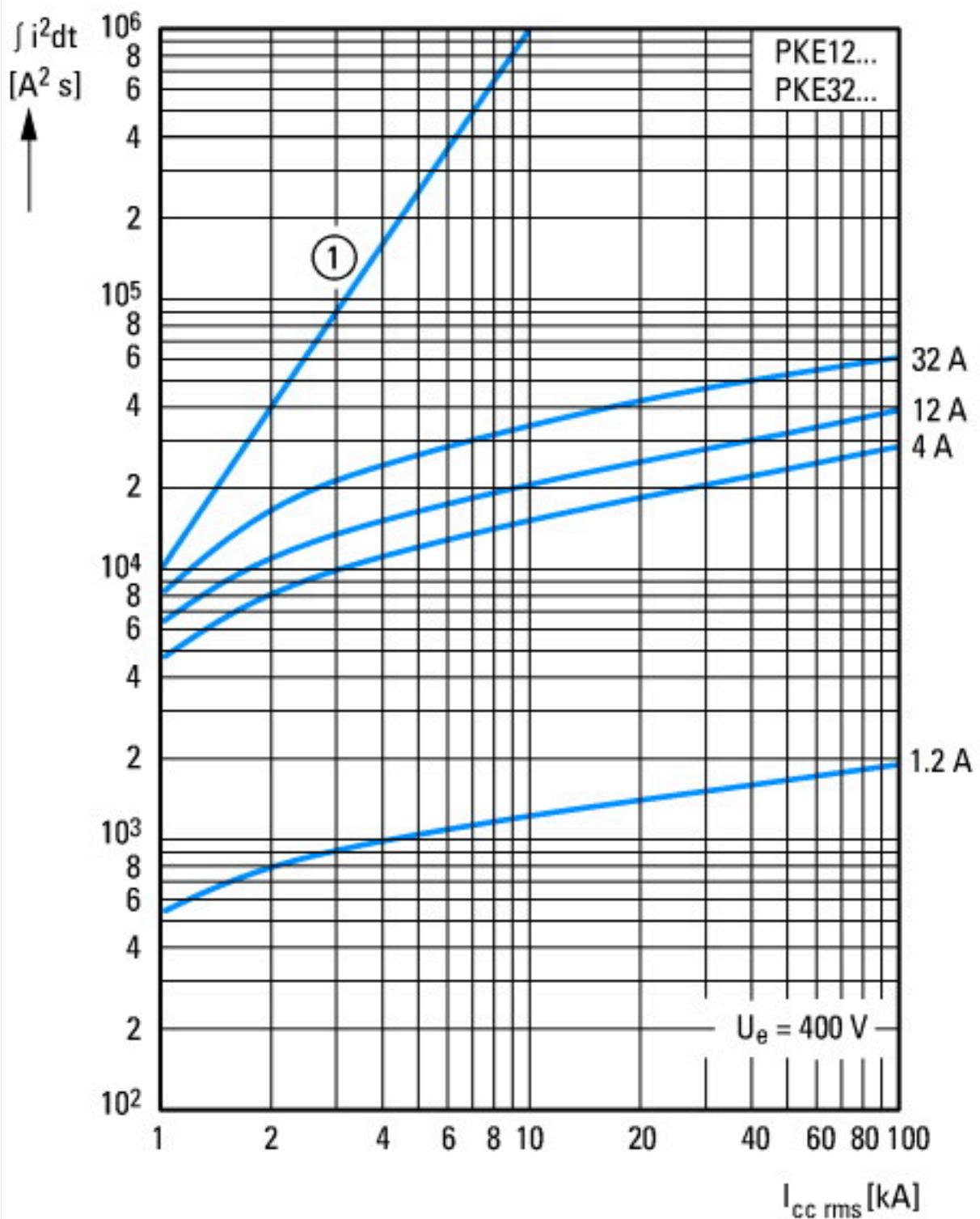
Characteristics



Tripping characteristics

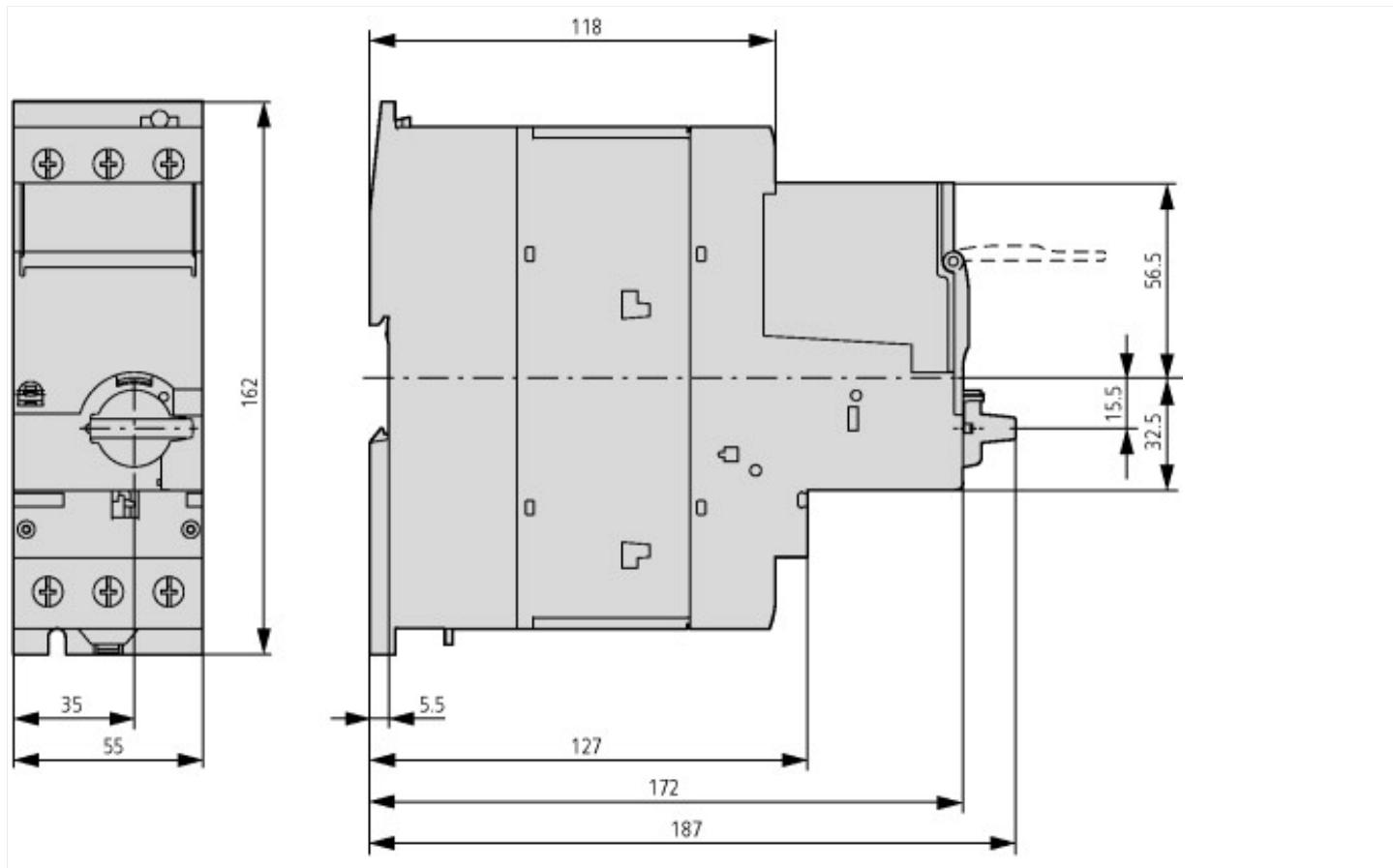


Let-through current



① 1 half-cycle
 Let-through energy

Dimensions



Assets (links)

Declaration of CE Conformity

00002852

Instruction Leaflets

IL03402019Z2018_03

Manuals

MN03402004Z_DE_EN (German)

MN03402004Z_DE_EN (English)