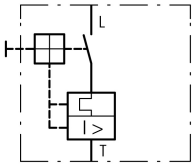
Motor-prot.circuit breaker PKZM01-0,25

Part no. PKZM01-0,25

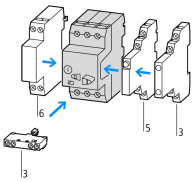
Article no. 278476

Powering Business Worldwide™

Program

Contact sequence			
220 - 240 V			
AC-3			
380 V 400 V 415 V	P	kW	0.06
440 V	P	kW	0.06
Rated uninterrupted current	I_u	A	0.25
Setting range			
Overload releases	I_r	A	0.16 - 0.25
Short-circuit releases			
max.	I_{rm}	A	3.5

Notes



Accessories

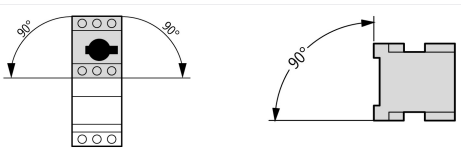
	Page
3 Standard auxiliary contact	→ 072896
5 Trip-indicating auxiliary contact	→ 072898
6 Shunt release, undervoltage release	→ 073187

Single-phasing sensitivity according to IEC/EN 60947-4-1, VDE 0660 Part 102.
Can be snap-fitted to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height

Approbationen

UL approval	Yes
CSA approval	Yes
Product Standards	UL 508; CSA-C22.2 No. 14; IEC60947-4-1; CE marking
UL File No.	E36332
UL CCN	NLRV
CSA File No.	12528
CSA Class No.	3211-05
NA Certification	UL listed, CSA certified
Specially designed for NA	No
Suitable for	Branch circuit: Manual type E if used with terminal, or suitable for group installations

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	- 25 - 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			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
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	16 or current setting of the overcurrent release
Rated frequency	f	Hz	40 - 60
Rated frequency		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	25
Short-circuit rating			
AC			
			→ Engineering
DC			
Short-circuit rating		kA	60
Short-circuit rating			60
Motor switching capacity		kA_{rms}	
AC-3 (up to 690 V)		A	16
DC-5 (up to 250 V)		A	16 (3 contacts in series)

Trip blocks

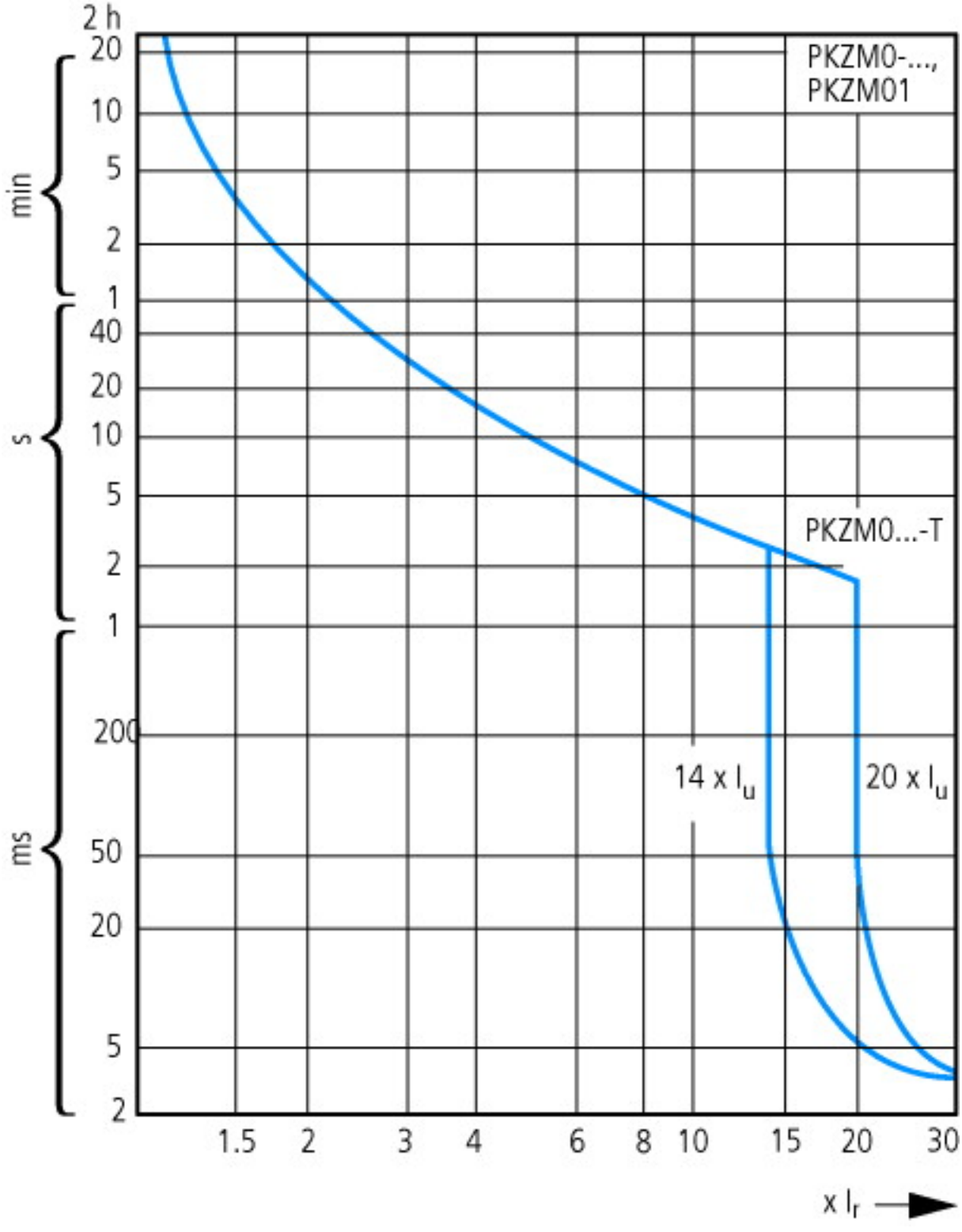
Temperature compensation			
to IEC/EN 60947, VDE 0660		°C	- 5 … 40
Operating range		°C	- 25 … 55
Temperature compensation residual error for T > 40 °C			0.25%/K
Setting range of overload releases		x I_u	0.6 - 1
Short-circuit release fixed		x I_u	14
Fixed short-circuit release			Basic device 14 x I_u
Short-circuit release tolerance			± 20%
Phase-failure sensitivity			IEC/EN 60947-4-1, VDE 0660 Part 102

Technical data according to ETIM 4.0

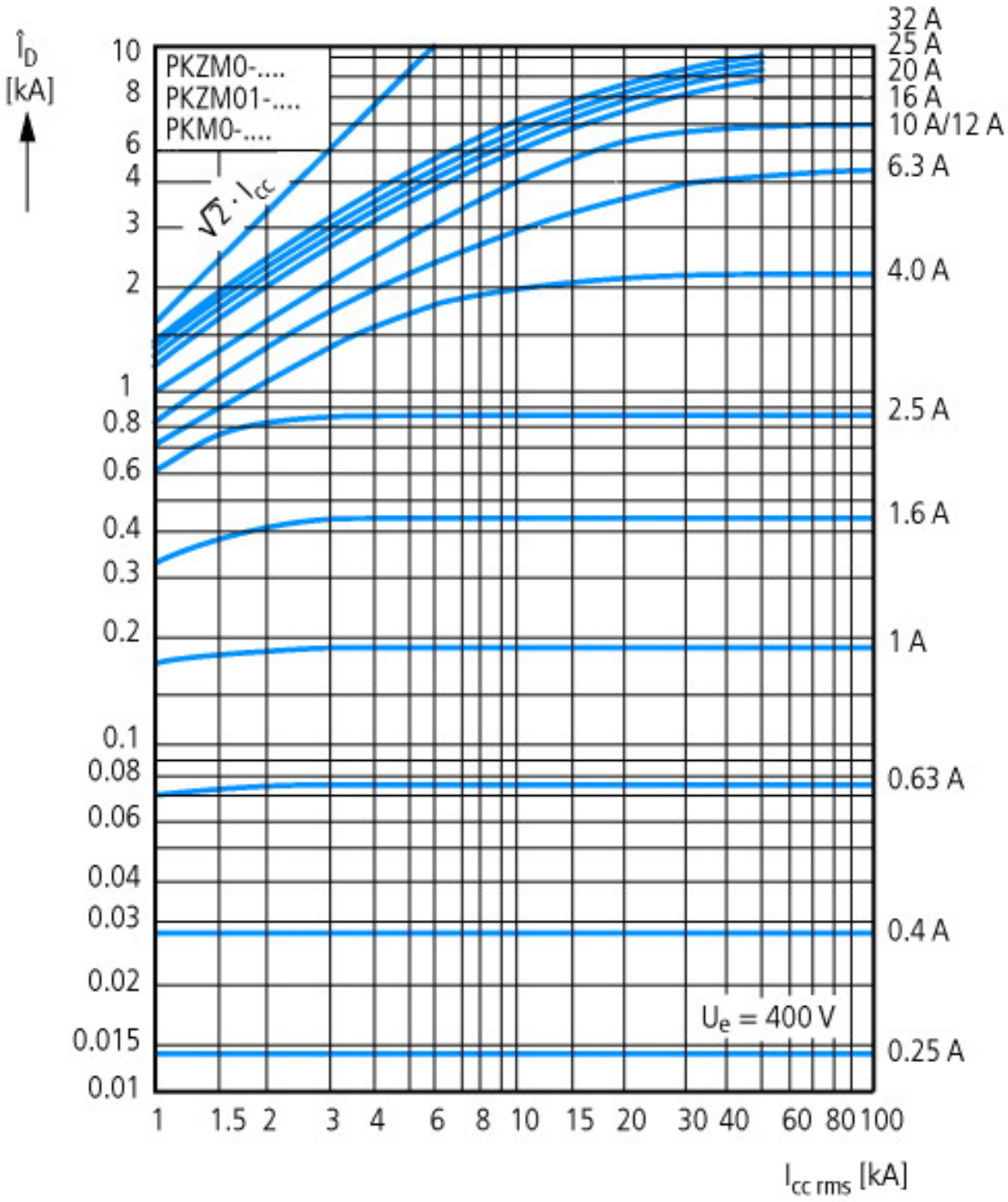
Rated operation power at AC-3, 400 V		kWh	0.06
With integrated auxiliary switch			No
Rated permanent current Iu		A	0.25
With integrated under voltage release			No

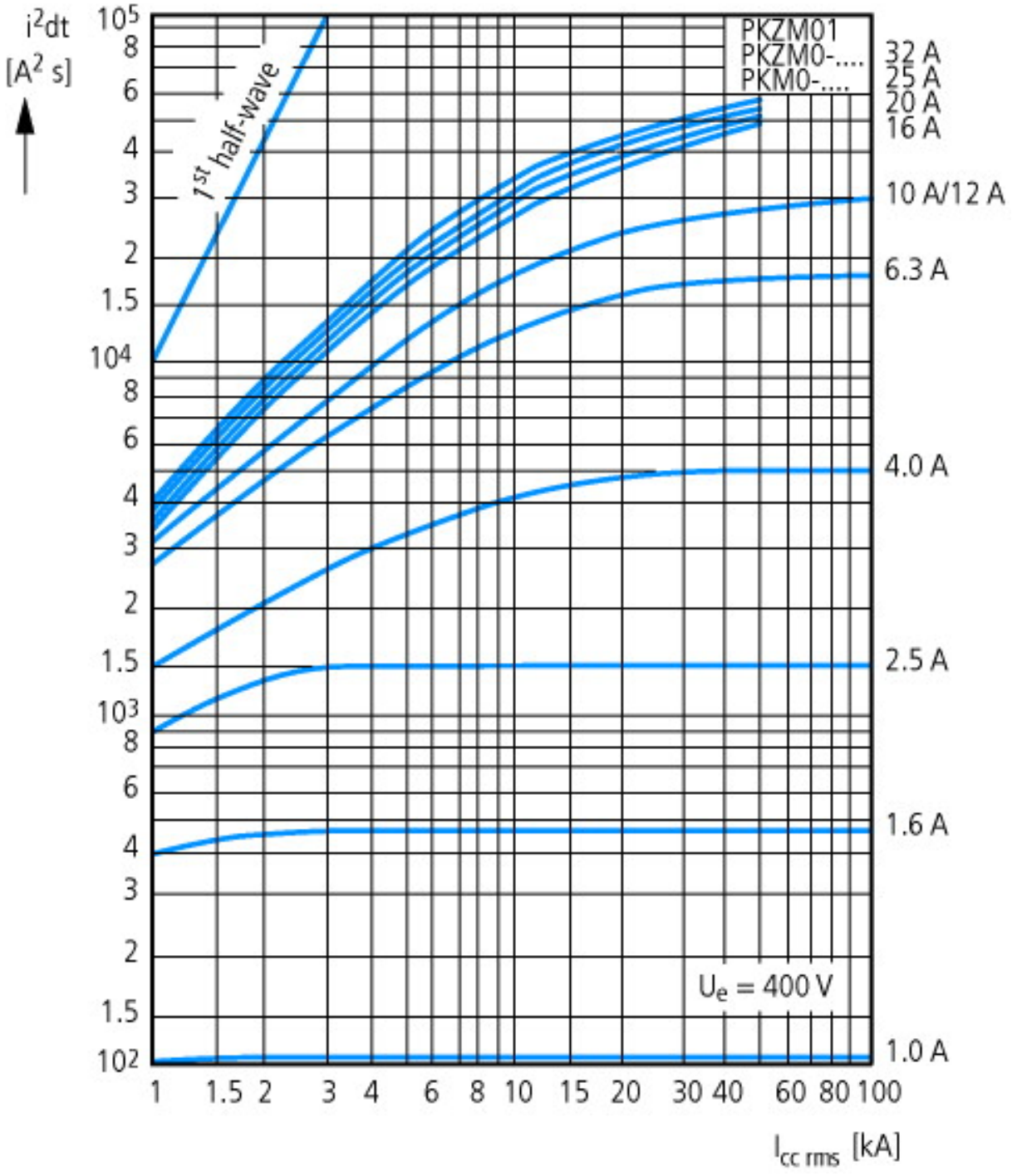
Number of poles			3
Degree of protection (IP)			IP20
Connection type main current circuit			Screw connection

Characteristics



Motor-protective circuit-breaker tripping characteristic (high-capacity) compact starter, PKZM0-…T (not for PKM0-…), PKZM01


$\hat{I}_D$ [kA]
PKZM0-....
PKZM01-....
PKM0-....
$\sqrt{2} \cdot I_{cc}$
32 A
25 A
20 A
16 A
10 A/12 A
6.3 A
4.0 A
2.5 A
1.6 A
1 A
0.63 A
0.4 A
0.25 A
U_e = 400 V
10
8
6
4
3
2
1
0.8
0.6
0.4
0.3
0.2
0.1
0.08
0.06
0.04
0.03
0.02
0.015
0.01
1 1.5 2 3 4 6 8 10 15 20 30 40 60 80 100
$I_{cc\ rms}$ [kA]

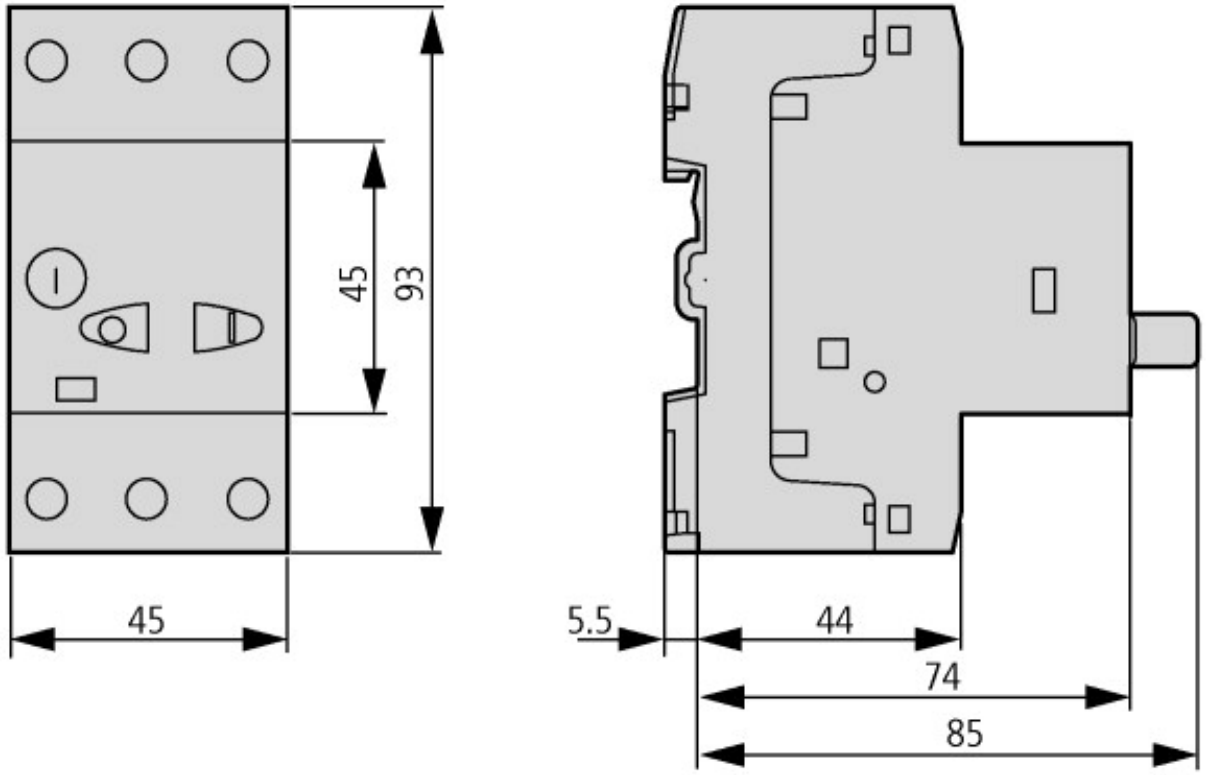


Let-through characteristics

CAD-Data

Product standards CAD data: http://eaton-moeller.partcommunity.com

Dimensions



Additional product information (links)

IL03407010Z (IL03407010Z) Motor-protective circuit-breaker	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407010Z2010_08.pdf
IL03407011Z (IL03407011Z) Motor-protective circuit-breaker	ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03407011Z2010_08.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