

KETO – The new generation NH-fuse-switch-disconnector

KETO-disconnectors can be combined regardless of the size. Different dimensions are adjusted to an uniform cover cutout with the available components for touch protection. Many functions are integrated across all construction sizes, e.g. four cover support levels at 32, 60, 70 and 90mm above top of busbar. This ensures an optimal system integration. Versions for baseplate mounting, busbar- and DIN rail mounting offer the suitable solution for each application.

Note: Product colour may vary depending on stock available.



KETO size 00

$I_e = 160A$

Overall width: 106mm

KETO size 1

$I_e = 250A$

Overall width: 184mm

KETO size 2

$I_e = 400A$

Overall width: 210mm

KETO size 000

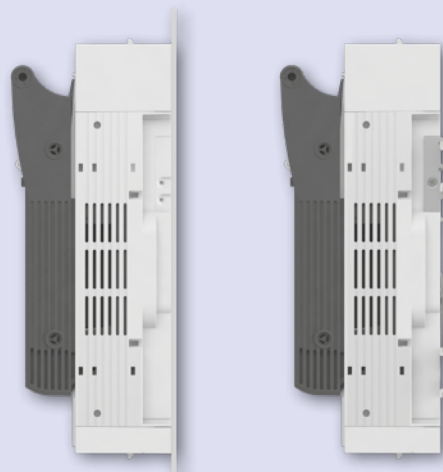
$I_e = 125A$

Overall width: 53mm



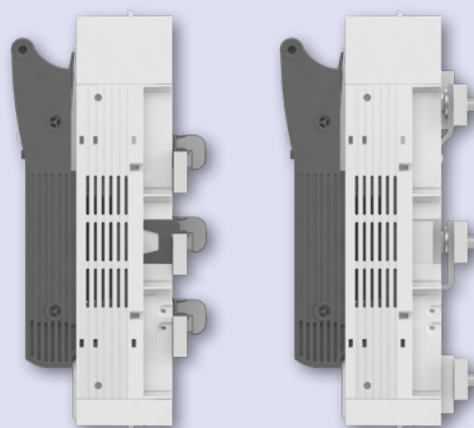


KETO size 3
 $I_n = 630A$
Overall width: 250mm



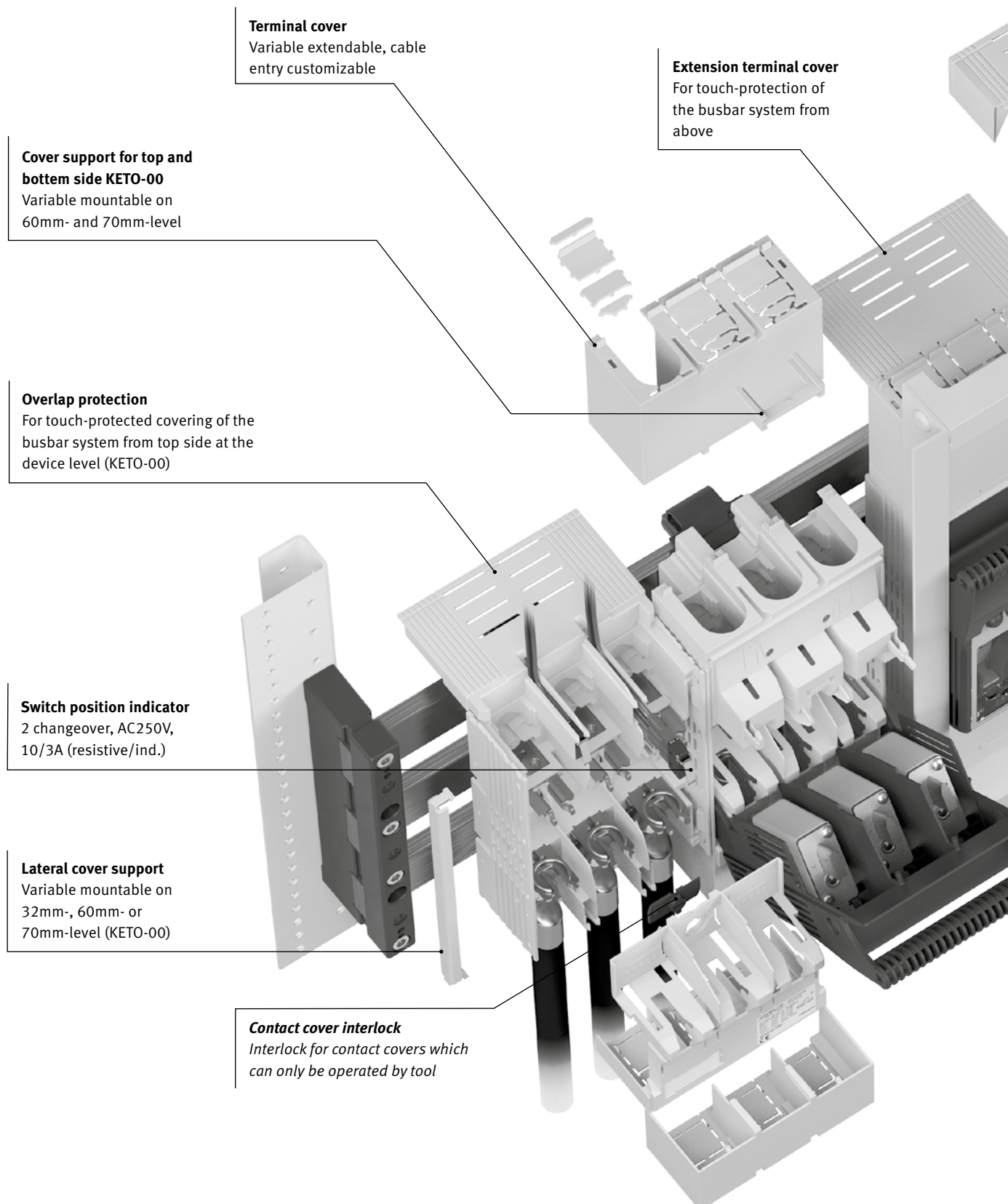
Baseplate mounting

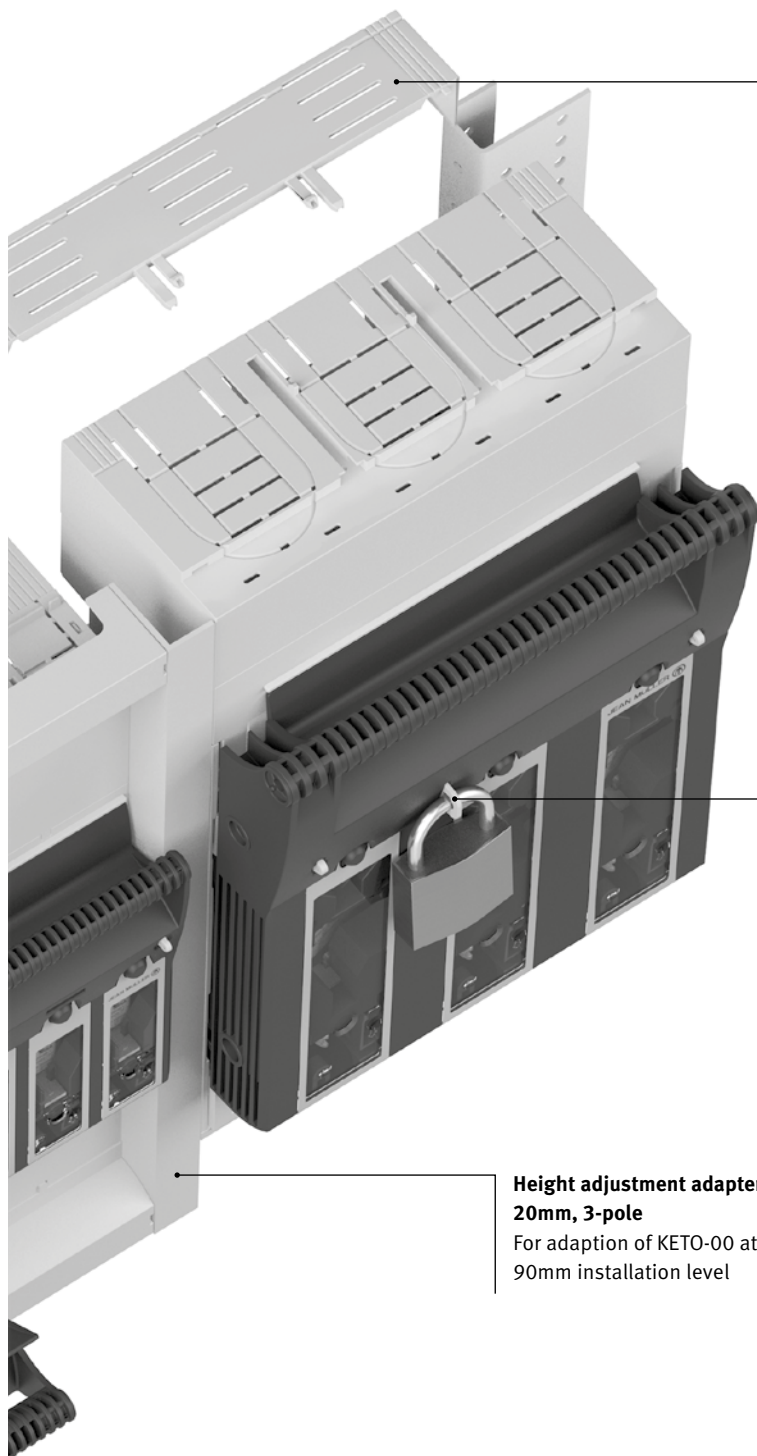
Multiple mounting hole pattern allow a variable installation and quick replacement. KETO-00 and KETO-1 can optionally be built on two parallel DIN-rails.



Busbar mounting

KETO-00 to KETO-3 are easy to fit onto busbar systems with 60mm centre distance – without any drilling.





Overlap protection

For touch-protected covering of the busbar system from top side at the device level (KETO-1, -2, -3)

**Lateral cover support
KETO-00**

Variable mountable on 32mm-, 60mm-, 70mm- or 90mm-level (KETO-1, -2, -3)

Locking device

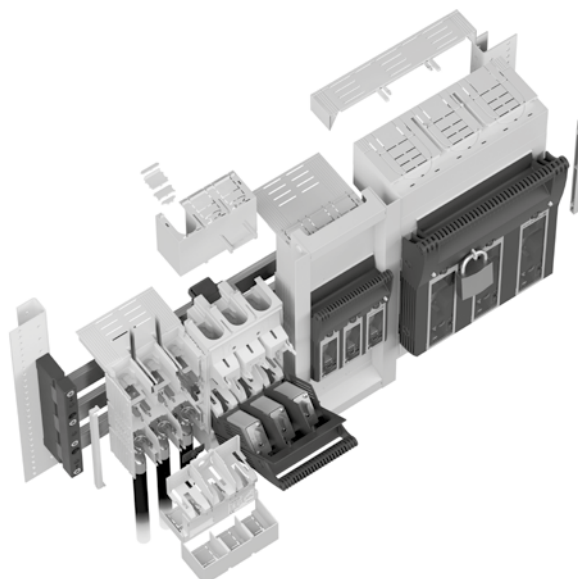
For holding of one padlock with max. 6mm shackle diameter

**Height adjustment adapter
20mm, 3-pole**

For adaption of KETO-00 at 90mm installation level

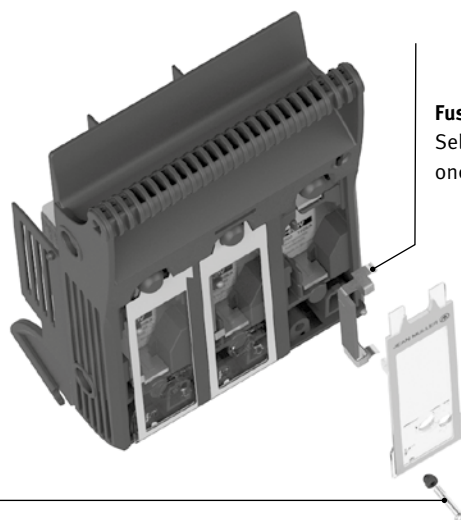
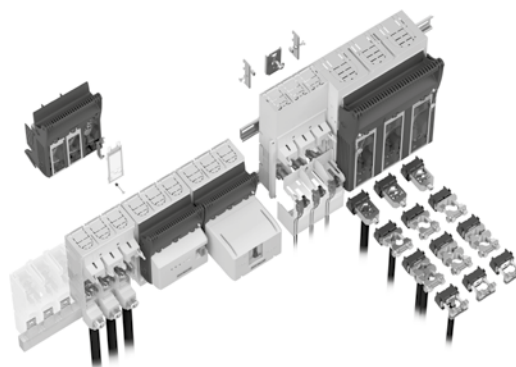
Focus on user safety

At KETO is safety always at the highest level. Even under voltage ensure features like overlap-protectors, status indicators, easy to use measuring access but also special touch protection covers at any time for maximum user safety.



Options for all conditions

Depending on the installation situation the specifications vary, options are required. Various types of terminals, four different clamping systems and many further equipment options – KETO is the solution for all installation conditions.



Fuse-monitoring ESligh

Selective fault indication – one red LED per phase

Power theft protection

For tamper-proof locking of the windows

Phase busbar 3-phase

Touch-protected feeding system for up to five KETO-00

Feeding clamp

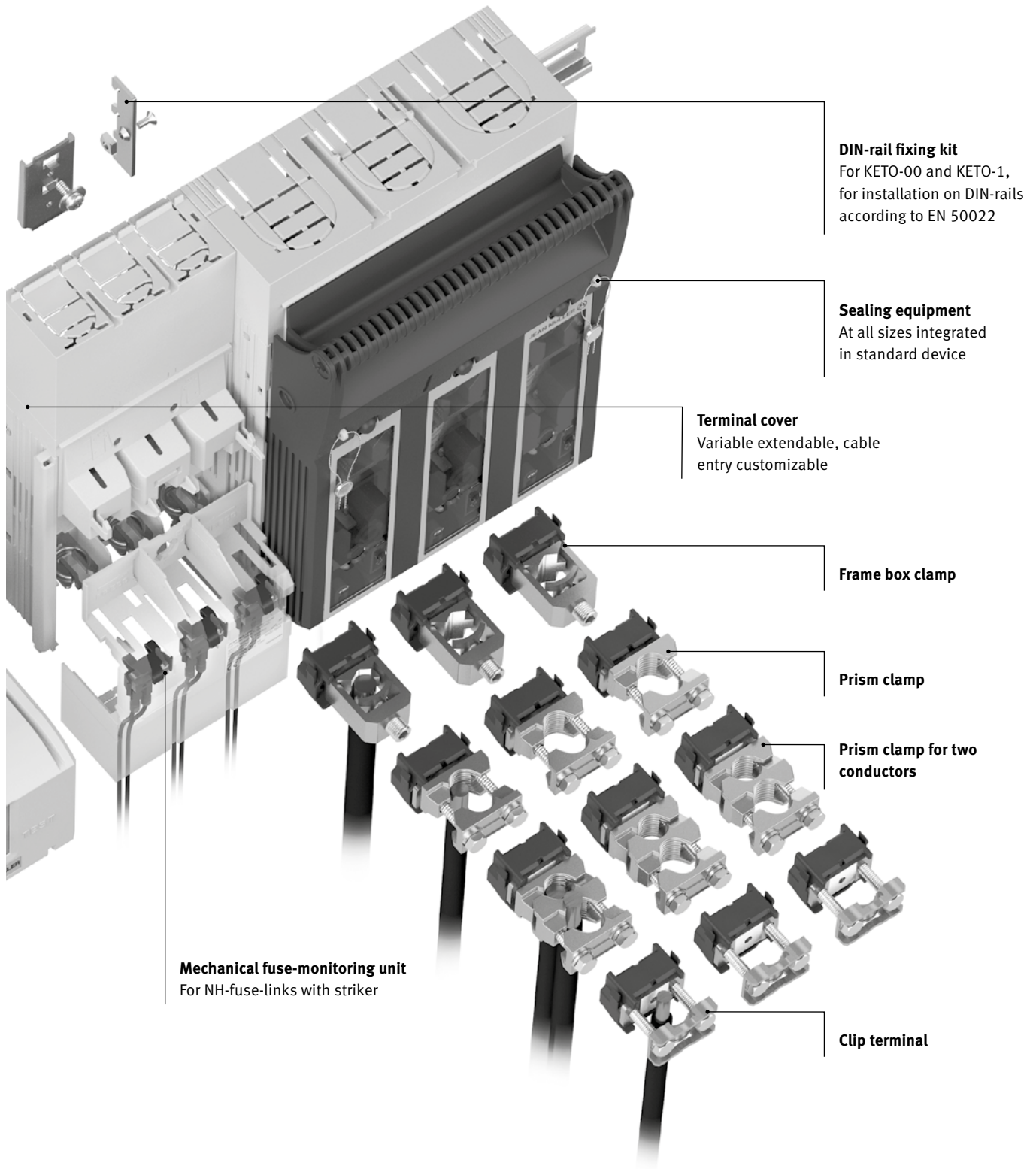
Touch-protected feeding clamps 25-95mm² for KETO-00, terminal M8

Electromechanical fuse-monitoring unit (AM)

Monitoring with motor-protection switch for special applications AC690V/DC150V

Electronic fuse-monitoring unit (ES10)

The allround-solution for AC400-500V, with stand-by indicator, fault simulation and selective fault indicator for fuse failure



The terminal clamps can be retrofitted for connection type "F" and can be found in the accessories section page 59.

KETO RANGE

With composite terminal covers

5-10mm thick 60mm spacing busbar system disconnects**1-pole horizontal fuse disconnects****Busbar mount Fixing via bolt**

Size	For Fuses	Current Rating (A)	Terminals	Connection Capacity (mm)	Part No.
00	DIN00 & DIN000	160	Flat terminal M8	max. 95	KETO-00-1/AOU/F

1-pole horizontal fuse disconnects**Busbar mount Fixing via bolt**

Size	For Fuses	Current Rating (A)	Terminals	Connection Capacity (mm)	Part No.
00	DIN00 & DIN000	160	Box clamp	max. 95	KETO-00-1/AOU/F/SK

5-10mm thick 60mm spacing busbar system disconnects

Top or bottom feed

3-pole horizontal fuse disconnects**Busbar mount Fixing via bolt**

Size	For Fuses	Current Rating (A)	Terminals	Connection Capacity (mm)	Part No.
000	DIN000	125	Box clamp	1.5-50Cu	KETO-000-3/60/AO/F50 BK Top feed
000	DIN000	125	Box clamp	1.5-50Cu	KETO-000-3/60/AU/25 BK Bottom feed
00	DIN00 & DIN000	160	Flat terminal M8	max. 95	KETO-00-3/60/AOU/F
00	DIN00 & DIN000	160	Box clamp	1.5-95 Al/Cu	KETO-00-3/AOU/R95
1	DIN1	250	Flat terminal M10	max. 150	KETO-1-3/AOU/F
1	DIN1	250	Box clamp	35-150 Al/Cu	KETO-1-3/AOU/R150
2	DIN2	400	Flat terminal M10	max. 240	KETO-2-3/AOU/F
2	DIN2	400	Box clamp	95-300 Al/Cu	KETO-2-3/AOU/R300
3	DIN 2 & 3	630	Flat terminal M10	max. 300	KETO-3-3/AOU/F
3	DIN 2 & 3	630	Box clamp	95-300 Al/Cu	KETO-3-3/AOU/R300

5-10mm thick 60mm spacing busbar system disconnects

Top or bottom feed

Dual feed 3-pole horizontal fuse disconnects**Busbar mount Fixing via bolt**

Size	For Fuses	Current Rating (A)	Terminals	Connection Capacity (mm)	Part No.
00	DIN00 & DIN000	160	Flat terminal M8	max. 95	KETO-3/60/AOU/F/EST
1	DIN1	250	Flat terminal M10	max. 150	KETO-1-3/60/AU/F/EST
2	DIN2	400	Flat terminal M10	max. 240	KETO-2-3/AO/F/EST
3	DIN 2 & 3	630	Flat terminal M10	max. 300	KETO-3-3/AO/F/EST

1-pole horizontal fuse disconnects

Base mount

Size	For Fuses	Current Rating (A)	Terminals	Connection Capacity (mm)	Part No.
00	DIN00 & DIN000	160	Flat terminal M8	max. 95	KETO-00-1/F
00	DIN00 & DIN000	160	Box clamp	1.5-95 Al/Cu	KETO-00-1/R95
1	DIN1	250	Flat terminal M10	max. 150	KETO-1-1/F
3	DIN 2 & 3	630	Flat terminal M10	max. 300	KETO-3-1/F

2-pole horizontal fuse disconnects

Base mount

Size	For Fuses	Current Rating (A)	Terminals	Connection Capacity (mm)	Part No.
00	DIN00 & DIN000	160	Flat terminal M8	max. 95	KETO-00-2/F
1	DIN1	250	Flat terminal M10	max. 150	KETO-1-2/F
3	DIN 2 & 3	630	Flat terminal M10	max. 300	KETO-3-2/F

3-pole horizontal fuse disconnects

Base mount

Size	For Fuses	Current Rating (A)	Terminals	Connection Capacity (mm)	Part No.
000	DIN000	125	Box clamp	1.5-50Cu	KETO-000-3/F50 BK
00	DIN00 & DIN000	160	Flat terminal M8	max. 95	KETO-00-3/F
00	DIN00 & DIN000	160	Box clamp	1.5-95 Al/Cu	KETO-00-3/R95
1	DIN1	250	Flat terminal M10	max. 150	KETO-1-3/F
1	DIN1	250	Box clamp	35-150 Al/Cu	KETO-1-3/R150
2	DIN2	400	Flat terminal M10	max. 240	KETO-2-3/F
2	DIN2	400	Box clamp	95-300 Al/Cu	KETO-2-3/R300
3	DIN 2 & 3	630	Flat terminal M10	max. 300	KETO-3-3/F
3	DIN 2 & 3	630	Box clamp	95-300 Al/Cu	KETO-3-3/R300

4-pole horizontal fuse disconnects

Base mount

Size	For Fuses	Current Rating (A)	Terminals	Connection Capacity (mm)	Part No.
00	DIN00 & DIN000	160	Flat terminal M8	max. 95	KETO-00-4/F
1	DIN1	250	Flat terminal M10	max. 150	KETO-1-4/F
3	DIN 2 & 3	630	Flat terminal M10	max. 300	KETO-3-4/F

Base mount only accessories - DIN rail fixing kits

Description	Part No.
For KETO-000	KETO-Z-000 Z Gr.000 3p
For KETO-00	KETO-Z-00 100-15MM
For KETO-1	KETO-Z-1 100-150MM
Ganging kits (For making pole & 4 pole units)	Part No.
For KETO-00	KETO-VBS-00/2+4P
For KETO-1, 2 & 3	KETO-VBS-123/2+4P

Description	Part No.
Extension terminal covers if extra touch protection required.	
3-pole for KETO-000-3, Bottom, 36mm long	KETO-AA-000-BTTM 36mm
3-pole for KETO-000-3, Bottom, 66mm long	KETO-AA-000-TOP 66mm
1-pole for KETO-00-1, Top & bottom, 36mm long	KETO-AA-00-1/36
1-pole for KETO-00-1, Top & bottom, 66mm long	KETO-AA-00-1/66
1-pole for KETO-1-1, Top & bottom, 42mm long	KETO-AA-1-1
1-pole for KETO-3-1, Top & bottom, 42mm long	KETO-AA-3-1
3-pole for KETO-00-3, Top & bottom, 36mm long	KETO-AA-00-3/36
3-pole for KETO-00-3, Top & bottom, 66mm long	KETO-AA-00-3/66
3-pole for KETO-1-3, Top & bottom, 42mm long	KETO-AA-1-3
3-pole for KETO-2-3, Top & bottom, 42mm long	KETO-AA-2-3
3-pole for KETO-3-3, Top & bottom, 42mm long	KETO-AA-3-3
Busbar series busbar covers if extra touch protection required.	
For KETO-00-3-AOU, Top & bottom, 32 long	KETO-UGS-00-3/32
For KETO-1-3-AOU, Top & bottom, 32 long	KETO-UGS-1-3/32
For KETO-2-3-AOU, Top & bottom, 32 long	KETO-UGS-2-3/32
For KETO-3-3-AOU, Top & bottom, 32 long	KETO-UGS-3-3/32
Integral contact/terminal cover interlock	
For KETO-00,1,2 & 3 3P (Interlocks to cover needs a tool to remove)	KETO-VKA-00123-3
Padlock device	
For KETO-00,1,2 & 3 3P (6mm hole, allows to padlock closed)	KETO-ASV-00123-3
Switch position indicator (Micro-switch)	
For KETO-00 1 Pole - 1 micro-switch per pack (part)	KETO-EV-00/1
For KETO-00 3 Pole - 1 micro-switch per pack (part)	KETO-EV-00/3
For KETO-1, 2 & 3 Pole - 1 micro-switch per pack (part)	KETO-EV-123
Fuse blow indicator (Micro-switch)	
For KETO-00 - 3 micro-switch per pack (part)	KETO-K-00
For KETO-1, 2 & 3 - 3 micro-switch per pack (part)	KETO-K-123
Phase combi bars for KETO-00-3	
2 way 35mm ³ 200Amp	KETO-PHS-00-3/2/35
2 way 50mm ² 200Amp	KETO-PHS-00-3/2/50
3 way 35mm ² 200Amp	KETO-PHS-00-3/3/35
3 way 50mm ² 200Amp	KETO-PHS-00-3/3/50
4 way 35mm ² 200Amp	KETO-PHS-00-3/4/35
4 way 50mm ² 200Amp	KETO-PHS-00-3/4/50
5 way 35mm ⁵ 200Amp	KETO-PHS-00-3/5/35
5 way 50mm ² 200Amp	KETO-PHS-00-3/5/50
Feed connection clamp terminal lug	
For KETO-00, M8 fixing hole, 25-95mm ² Cu/Al	KETO-ESK-00/95

Description	Part No.
Clip terminals to modify KETO with bolt connections	
For KETO-00, 1.5-70mm ² Cu	S00-Z
For KETO-1, 25-150mm ² Cu	S1
For KETO-2, 25-240mm ² Cu	S2
For KETO-3, 11x21mm Band Cu	S3
Prism clamp terminals to modify KETO with bolt connections	
For KETO-00, 10-70mm ² Al/Cu	P0070-Z
For KETO-1, 70-150mm ² Al/Cu	P1
For KETO-2, 120-240mm ² Al/Cu	P2
For KETO-3, 120-300mm ² Al/Cu	P3
Double Prism clamp terminals to modify KETO with bolt connections. Two cables	
For KETO-1, 2 x 70-150mm ² Al/Cu	P12
For KETO-2, 2 x 120-240mm ² Al/Cu	P22
For KETO-3, 2 x 120-300mm ² Al/Cu	P32
Frame (Box) clamp terminals to modify KETO with bolt connections	
For KETO-1, 35-150mm ² Al/Cu	KETO-R150
For KETO-2 & 3, 95-300mm ² Al/Cu	KETO-R300-2+3

Notes



TECHNICAL INFORMATION

NH fuse-switch-disconnectors KETO – Technical data

Type			Size		KETO-000 Baseplate mounting	KETO-000 Busbar mounting
Electrical characteristics	Rated operational voltage		U _e	V	690	
	Rated operational current		I _e	A	125	
	Conventional free air thermal current with fuses		I _{th}	A	125	
	Rated insulation voltage		U _i	V	800	
	Rated conditional short-circuit current		I _{cc}	kA _{eff}	80(500V)	
	Short-circuit making capacity with protected by fuses		-	kA	80	
	Short-time withstand with protected by fuses		-	kA	80	
	Utilization category		I _e	A	AC-23B(400 V/125A) AC-22B(500 V/125A) AC-21B(690 V/80A)	AC-22B(500 V/125A) AC-21B(690 V/80A)
	Rated impulse withstand voltage		U _{imp}	kV	6	
	Operating cycles with current		-	-	200	
	Total power loss at I _{th} (without TM)		P _v	W	10.5	12
Fuse-links	Size to DIN 43 620		-	-	000	
	Max. rated current		I _N	A	125	
	Max. permis. power loss per fuse-link		P _v	W	9	
Cable terminal	F50	Clamping cross-section	-	mm ²	1.5-50 Cu	
	F50	Tightening torque	-	Nm	4.5	
Type of protection	Front side, device fitted	Operational state	-	-	IP30	
		Front cover open	-	-	IP10	
Operating Conditions	Ambient temperature		T _u	°C	-25bis/to +70	
	Reduction factor	>35°C	-	-	0.9	1.0
		>55°C	-	-	0.8	0.95
	Rated operating mode		-	-	Continuous operation	
	Actuation		-	-	Dependent manual operation	
	Mounting position		-	-	Vertical, horizontal	
	Altitude		-	m	Up to 2000	
	Pollution degree		-	-	2	
Overvoltage category		-	-	III		

NH fuse-switch-disconnectors KETO – Technical data

Type			KETO-00 Baseplate mounting		KETO-00 Busbar mounting		
Electrical characteristics	According to standard		DIN EN 60947-3				
	For NH fuse-links acc. to DIN VDE 0636-2	Size	000/00				
	Rated operational voltage	U _e	V	AC690 DC440			
	Rated operational current ¹⁾	I _e	A	160			
	Conv. free air thermal current with fuse-links ¹⁾	I _{th}	A	160			
	Conv. free air thermal current with solid-links ¹⁾	I _{th}	A	210	On request		
	Rated frequency	f	Hz	50-60			
	Rated insulation voltage	U _i	V	AC800			
				1P	3P	1P	3P
	Total power loss at I _{th} (without fuse-links)	P _v	W	3	9	5	14
	Power loss at 80% I _{th} (without fuse-links) ²⁾	P _v	W	1.9	5.8	3	9
	Rated impulse withstand voltage	U _{imp}	kV	8			
	Utilization category ³⁾	-	-	AC-23B (400V/160A) AC-22B (500V/160A) AC-21B (690V/160A) DC-22B (250V/160A)			
	Rated conditional short-circuit current ^{3) 4)}	-	kA	120 (500V) 100 (690V)			
	Rated short-time withstand current	I _{cw}	kA	5/1s			
	Max. permis. power loss per fuse-link	P _a	W	12			

1) In case of mounting of several units in low voltage switchgear-combinations, please consider rated diversity factors acc. to DIN EN 61439.

2) Reference value for replacement of devices acc. to DIN EN 61439-1 clause 10.10.4.2.

3) It must be considered a minimum distance to earthed, conductive parts: Lateral: 20mm/Above: 50mm.

4) Type tested with NH fuse-links characteristic gG.

Type			KETO-00 Baseplate mounting			KETO-00 Busbar mounting
Cable terminal	Flat terminal		Bolt diameter	-	-	M8
	Clip terminal	S00-70	Clamping cross-section	-	mm²	○ : 1.5-70 Cu □ : 6 x 9 x 0.8 Cu
			Tightening torque	M _a	Nm	2.6
	Clamp	P00-70 P00-95	Clamping cross-section	-	mm²	10-70 Al/Cu 35-95 Al/Cu
			Tightening torque	M _a	Nm	2.6
	Clamp	R95	Clamping cross-section		mm²	1.5-95 Al/Cu (Al 95: max. 125A) ⁶⁾
			Tightening torque	M _a	Nm	4.5
Degree of protection	Front side Device fitted		Operating condition	-	-	IP20
			With clamp- and lateral cover	-	-	IP2XC
			Switching element open	-	-	IP10
Operating conditions	Ambient temperature ⁵⁾			T _{amb}	°C	-25 up to +70
	Rated operating mode			-	-	Uninterrupted duty
	Actuation			-	-	Dependent manual operation
	Mounting position			-	-	vertical /horizontal
	Altitude			-	m	Up to 2000
	Pollution degree			-	-	3
	Overvoltage category			-	-	III

Annotation: ○ = Round conductor □ = Strip conductor

5) 35°C Normal temperature, above 35°C up to 70°C with reduces operating current.

6) Pretread Al-conductors mechanically! Cleaning and greasing!

NH fuse-switch-disconnectors KETO – Technical data

Type				KETO-1 Baseplate mounting		KETO-1 Busbar mounting		
Electrical characteristics	According to standard			DIN EN 60947-3				
	For NH fuse-links acc. to DIN VDE 0636-2		Size		1			
	Rated operational voltage		U _e	V	AC690 DC440			
	Rated operational current ¹⁾		I _e	A	250			
	Conv. free air thermal current with fuse-links ¹⁾		I _{th}	A	250			
	Conv. free air thermal current with solid-links ¹⁾		I _{th}	A	325			
	Rated frequency		-	Hz	50-60			
	Rated insulation voltage		U _i	V	AC800			
				1P	3P	1P	3P	
	Total power loss at I _{th} (without fuse-links)		P _v	W	5	15	7	22
	Power loss at 80% I _{th} (without fuse-links) ²⁾		P _v	W	3.2	9.6	4.7	14.1
	Rated impulse withstand voltage		U _{imp}	kV	8			
	Utilization category ³⁾		-	-	AC-23B (400V/250A) AC-22B (500V/250A) AC-21B (690V/250A) DC-22B (250V/250A) 3P: DC-21B (440V/250A)			
	Rated conditional short-circuit current ^{3) 4)}		-	kA	120 (500V) 100 (690V)			
	Rated short-time withstand current		I _{cw}	kA	8.6/1s			
Max. permis. power loss per fuse-link		P _a	W	23				

1) In case of mounting of several units in low voltage switchgear-combinations, please consider rated diversity factors acc. to DIN EN 61439.

2) Reference value for replacement of devices acc. to DIN EN 61439-1 clause 10.10.4.2.

3) It must be considered a minimum distance to earthed, conductive parts: Lateral: 20mm/Above: 50mm.

4) Type tested with NH fuse-links characteristic gG.

Type			KETO-1 Baseplate mounting		KETO-1 Busbar mounting
Cable terminal	Flat terminal		Bolt diameter	-	M10
			Tightening torque	M_a	Nm
	Clip terminal	S1	Clamping cross-section	-	mm ²
					○ : 25-150 Cu □ : 6 x 16 x 0.8 Cu
	Clamp	P1	Tightening torque	M_a	Nm
					9.5
	Clamp	P1	Clamping cross-section	-	mm ²
					10-150 Al/Cu
		P12	Tightening torque	M_a	Nm
					4.5
Degree of protection	Front side Device fitted	Switching element open	Clamping cross-section	-	mm ²
					2 x (10-150) Al/Cu
			Tightening torque	M_a	Nm
Operating conditions			Clamping cross-section	-	mm ²
					35-150 Al/Cu
			Tightening torque	M_a	Nm
					12
			Operating condition	-	-
					IP20
			With clamp- and lateral cover	-	-
Operating conditions					IP2XC
			Switching element open	-	-
					IP10
			Ambient temperature ⁵⁾	T_{amb}	°C
					-25 up to +70
			Rated operating mode	-	-
					Uninterrupted duty
Operating conditions			Actuation	-	-
					Dependent manual operation
			Mounting position	-	-
					vertical /horizontal
			Altitude	-	m
					Up to 2000
			Pollution degree	-	-
Operating conditions					3
			Overvoltage category	-	-
					III

Annotation: ○ = Round conductor □ = Strip conductor

5) 35°C Normal temperature, above 35°C up to 70°C with reduces operating current.

NH fuse-switch-disconnectors KETO – Technical data

Type			KETO-2 Baseplate mounting	KETO-2 Busbar mounting
Electrical characteristics	According to standard		DIN EN 60947-3	
	For NH fuse-links acc. to DIN VDE 0636-2	Size	2	
	Rated operational voltage	U_e V	AC690 DC440	
	Rated operational current ¹⁾	I_e A	400	
	Conv. free air thermal current with fuse-links ¹⁾	I_{th} A	400	
	Conv. free air thermal current with solid-links ¹⁾	I_{th} A	520	
	Rated frequency	f Hz	50-60	
	Rated insulation voltage	U_i V	AC1000	
	Total power loss at I_{th} (without fuse-links)	P_v W	28	36
	Power loss at 80% I_{th} (without fuse-links) ²⁾	P_v W	17.9	23
	Rated impulse withstand voltage	U_{imp} kV	8	
	Utilization category ³⁾	-	AC-23B (400V/400A) AC-22B (500V/400A) AC-21B (690V/400A) DC-22B (440V/400A)	
	Rated conditional short-circuit current ^{3) 4)}	- kA	120 (500V) 100 (690V)	
	Rated short-time withstand current	I_{cw} kA	15/1s	
	Max. permis. power loss per fuse-link	P_a W	34	

1) In case of mounting of several units in low voltage switchgear-combinations, please consider rated diversity factors acc. to DIN EN 61439.

2) Reference value for replacement of devices acc. to DIN EN 61439-1 clause 10.10.4.2.

3) It must be considered a minimum distance to earthed, conductive parts: Lateral: 20mm/Above: 50mm.

4) Type tested with NH fuse-links characteristic gG.

Type					KETO-2 Baseplate mounting		KETO-2 Busbar mounting	
Cable terminal	Flat terminal		Bolt diameter	-	-	M10		
			Tightening torque	M _a	Nm	30-35		
	Clip terminal	S2	Clamping cross-section	-	mm ²	○ : 25-185 Cu □ : 10 x 16 x 0.8 Cu		
			Tightening torque	M _a	Nm	23		
	Clamp	P2	Clamping cross-section	-	mm ²	120-240 Al/Cu		
			Tightening torque	M _a	Nm	11		
	Clamp	P22	Clamping cross-section		mm ²	2 x (120-150) Al/Cu		
			Tightening torque	M _a	Nm	11		
		R300	Clamping cross-section		mm ²	95-300 Al/Cu		
			Tightening torque	M _a	Nm	20		
Degree of protection	Front side Device fitted		Operating condition	-	-	IP20		
			With clamp- and lateral cover	-	-	IP2XC		
			Switching element open	-	-	IP10		
Operating conditions	Ambient temperature ⁵⁾			T _{amb}	°C	-25 up to +70		
	Rated operating mode			-	-	Uninterrupted duty		
	Actuation			-	-	Dependent manual operation		
	Mounting position			-	-	vertical /horizontal		
	Altitude			-	m	Up to 2000		
	Pollution degree			-	-	3		
	Overvoltage category			-	-	III		

Annotation: ○ = Round conductor □ = Strip conductor

5) 35°C Normal temperature, above 35°C up to 70°C with reduces operating current.

NH fuse-switch-disconnectors KETO – Technical data

Type			KETO-3 Baseplate mounting		KETO-3 Busbar mounting		
Electrical characteristics	According to standard		DIN EN 60947-3				
	For NH fuse-links acc. to DIN VDE 0636-2	Size		3			
	Rated operational voltage	U _e	V	AC690 DC440			
	Rated operational current ¹⁾	I _e	A	630			
	Conv. free air thermal current with fuse-links ¹⁾	I _{th}	A	630			
	Conv. free air thermal current with solid-links ¹⁾	I _{th}	A	910	On request		
	Rated frequency	f	Hz	50-60			
	Rated insulation voltage	U _i	V	AC1000			
				1P	3P	1P	3P
	Total power loss at I _{th} (without fuse-links)	P _v	W	17	51	7	86
	Power loss at 80% I _{th} (without fuse-links) ²⁾	P _v	W	10.9	32.6	18.3	55
	Rated impulse withstand voltage	U _{imp}	kV	8			
	Utilization category ³⁾	-	-	AC-23B (400V/630A) AC-22B (500V/630A) AC-21B (690V/630A) DC-21B (250V/630A) 3P: DC-22B (440V/630A)			
	Rated conditional short-circuit current ^{3) 4)}	-	kA	120 (500V) 100 (690V)			
	Rated short-time withstand current	I _{cw}	kA	15kA/1s			
Max. permis. power loss per fuse-link	P _a	W	48				

1) In case of mounting of several units in low voltage switchgear-combinations, please consider rated diversity factors acc. to DIN EN 61439.

2) Reference value for replacement of devices acc. to DIN EN 61439-1 clause 10.10.4.2.

3) It must be considered a minimum distance to earthed, conductive parts: Lateral: 20mm/Above: 50mm.

4) Type tested with NH fuse-links characteristic gG.

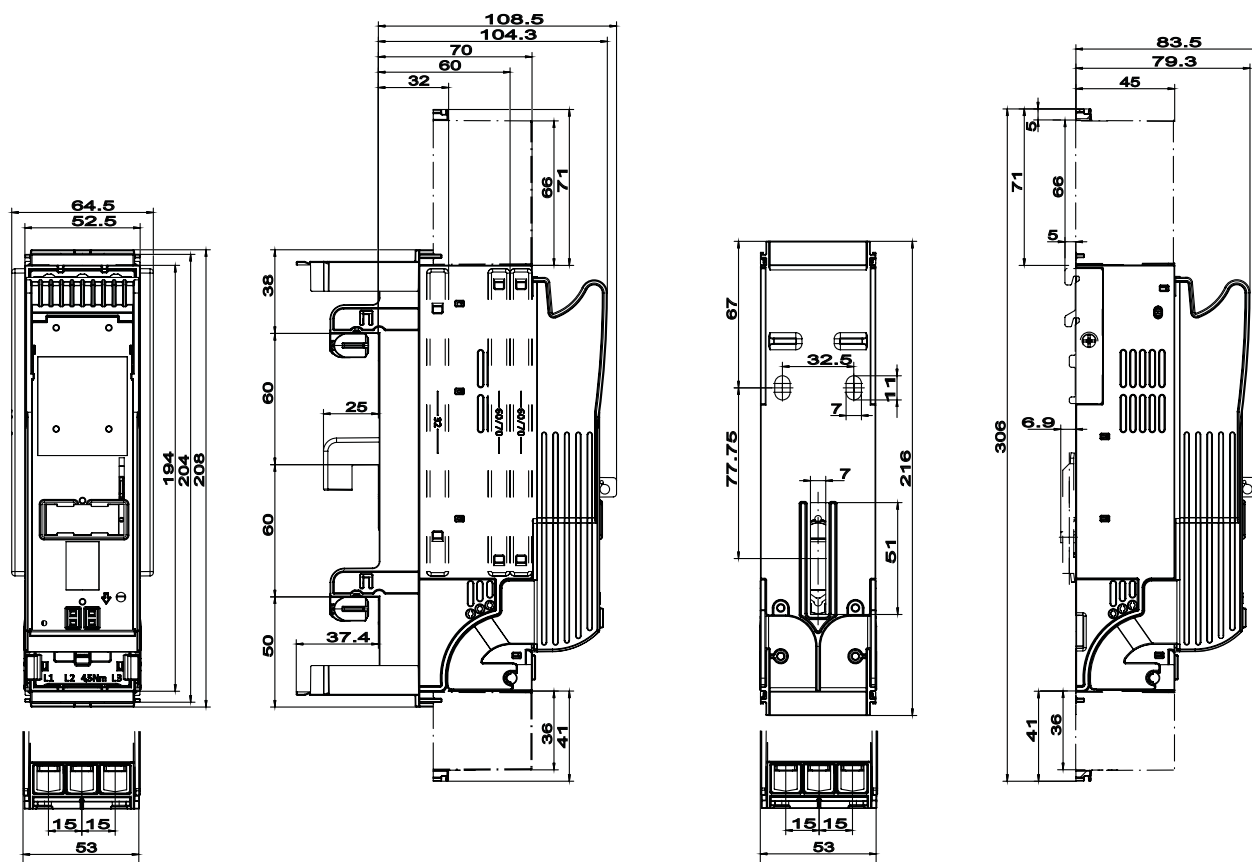
Type			KETO-3 Baseplate mounting			KETO-3 Busbar mounting
Cable terminal	Flat terminal		Bolt diameter	-	-	M10/12
			Tightening torque	M_a	Nm	30-35
	Clip terminal	S3	Clamping cross-section	-	mm ²	□ : 11 x 21 x 1 Cu
			Tightening torque	M_a	Nm	23
	Clamp	P3	Clamping cross-section	-	mm ²	120-300 Al/Cu
			Tightening torque	M_a	Nm	11
	Clamp	P32	Clamping cross-section		mm ²	2 x (120-240) Al/Cu
			Tightening torque	M_a	Nm	11
		R300	Clamping cross-section		mm ²	95-300 Al/Cu
			Tightening torque	M_a	Nm	20
Degree of protection	Front side Device fitted	Operating condition	-	-		IP20
		With clamp- and lateral cover	-	-		IP2XC
		Switching element open	-	-		IP10
Operating conditions	Ambient temperature ⁵⁾		T_{amb}	°C		-25 up to +70
	Rated operating mode		-	-		Uninterrupted duty
	Actuation		-	-		Dependent manual operation
	Mounting position		-	-		vertical /horizontal
	Altitude		-	m		Up to 2000
	Pollution degree		-	-		3
	Overvoltage category		-	-		III

Annotation: ○ = Round conductor □ = Strip conductor

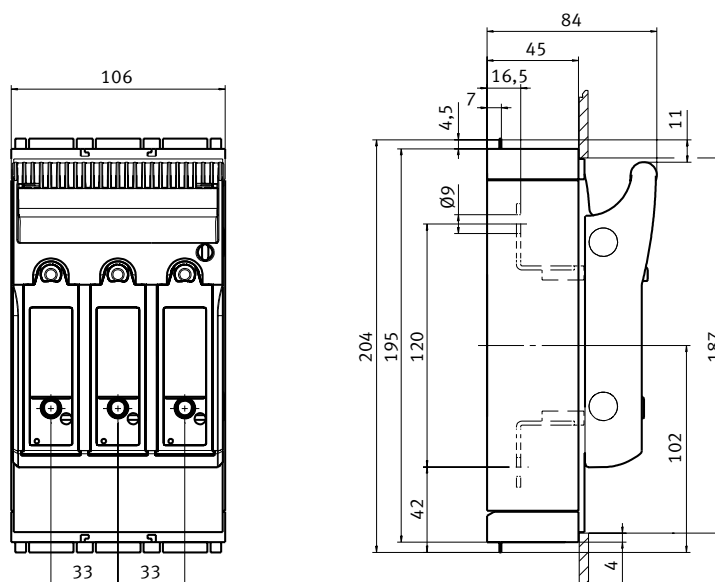
5) 35°C Normal temperature, above 35°C up to 70°C with reduces operating current.

DIMENSIONS

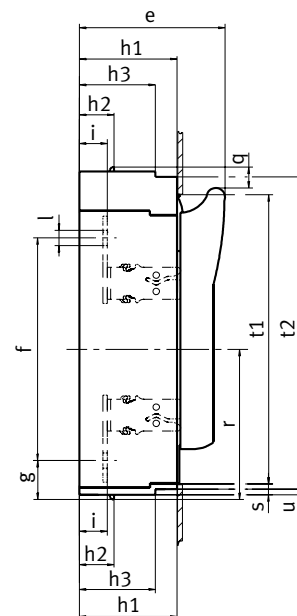
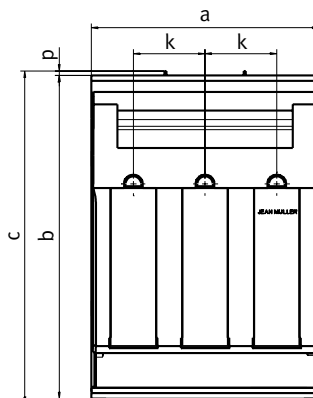
Part No.	Mounting type	Terminal side
KETO-000-3/60/AO/F50	Busbar	Top
KETO-000-3/60/AU/F50	Busbar	Bottom
KETO-000-3/F50	Baseplate	Top, bottom



Part No.	Part No.
KETO-00-3/F	KETO-00-3/F/ESL
KETO-00-3/R95	KETO-00-3/R95/ESL



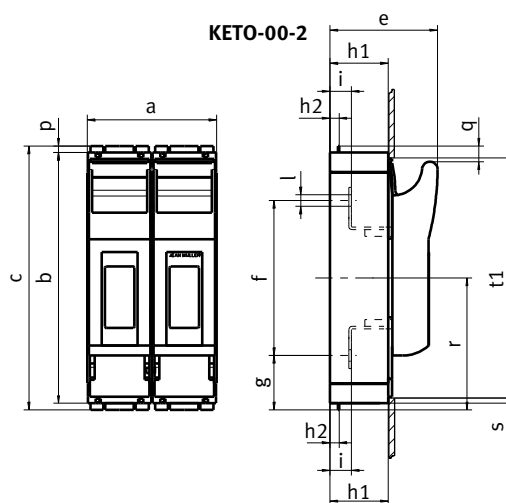
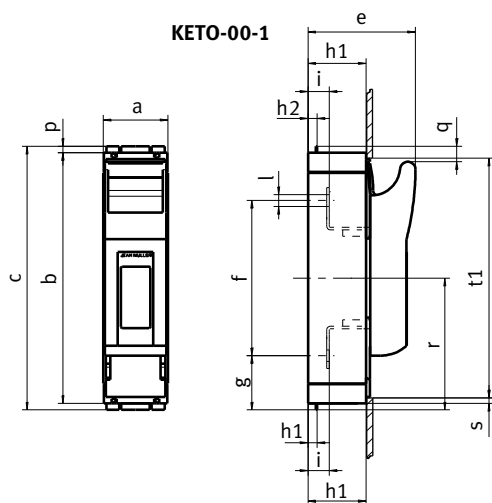
Part No.	Part No.
KETO-1-3/F/(ESL)	KETO-2-3/R300/(ESL)
KETO-1-3/R150/(ESL)	KETO-3-3/F/(ESL)
KETO-2-3/F/(ESL)	KETO-3-3/R300/(ESL)



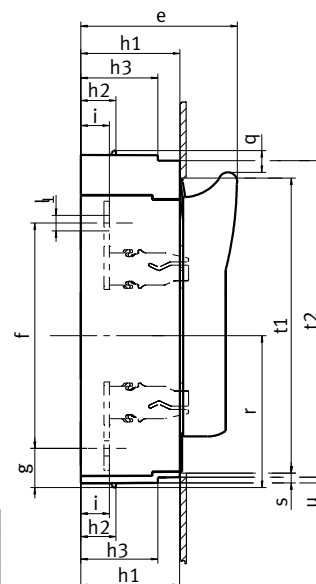
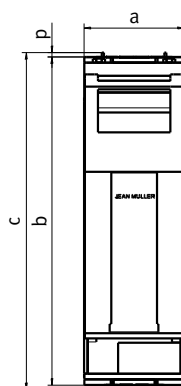
Type	a	b	c	e	f	g	h1	h2	h3	i	k	l	p	q	r	s	t1	t2	u
KETO-1-3	184	298	306	117	185	46	70	32	-	25	58	Ø10,5	4	19	138	5	272	-	-
KETO-2-3	210	298	306	134	205	36	90	32	70	26	66	Ø14	4	19	138	10	268	288	5
KETO-3-3	250	298	306	143	205	36	90	32	70	26	82	Ø14	4	19	138	10	268	288	5

Part No.
KETO-00-1/F
KETO-00-2/F
KETO-00-1/R95

Type	a	b	c	e	f	g	h1	h2	h3	i	l	p	q	r	s	t1
KETO-00-1	50	195	204	84	120	42	45	7	-	16,5	Ø9	4,5	12	102	5	187
KETO-00-2	100	195	204	84	120	42	45	7	-	16,5	Ø9	4,5	12	102	5	187

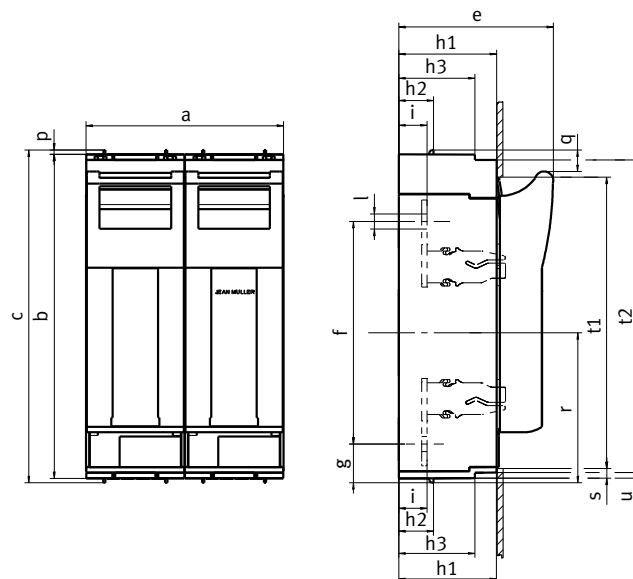


Part No.	Part No.
KETO-1-1/F	KETO-3-1/F



Type	a	b	c	e	f	g	h1	h2	h3	i	l	p	q	r	s	t1	t2	u
KETO-1-1	69	298	306	117	185	46	70	32	-	25	Ø10,5	4	19	138	5	272	-	-
KETO-3-1	91	298	306	143	205	36	90	32	70	26	Ø14	4	19	138	10	268	288	5

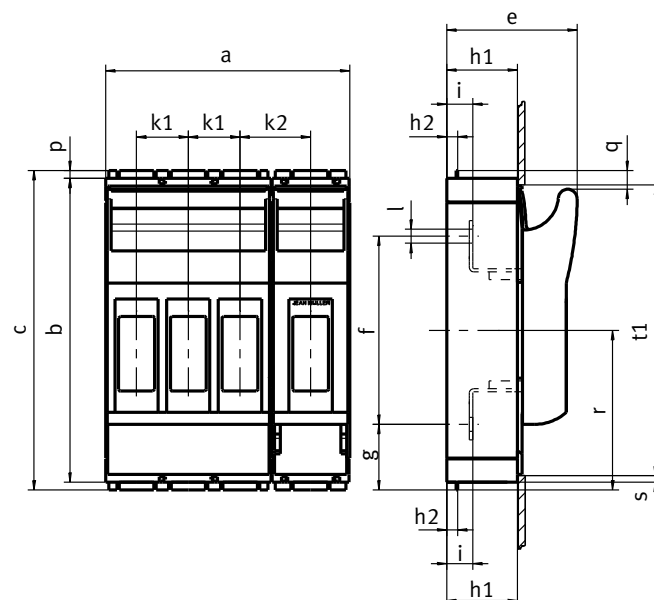
Part No.	Part No.
KETO-1-2/F	KETO-3-2/F



Type	a	b	c	e	f	g	h1	h2	h3	i	l	p	q	r	s	t1	t2	u
KETO-1-2	138	298	306	117	185	46	70	32	-	25	Ø10,5	4	19	138	5	272	-	-
KETO-3-2	182	298	306	143	205	36	90	32	70	26	Ø14	4	19	138	10	268	288	5

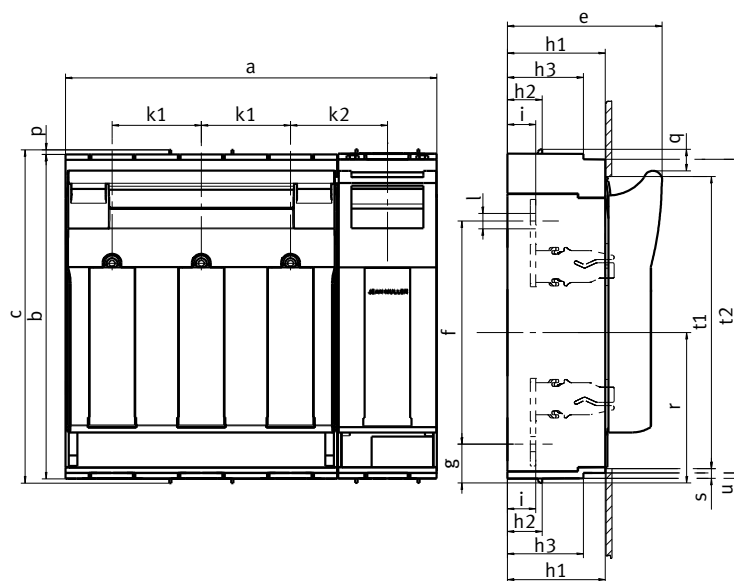
Part No.
KETO-00-4/F

Type	a	b	c	e	f	g	h1	h2	h3	k1	k2	i	l	p	q	r	s	t1	t2	u
KETO-00-4	156	195	204	84	120	42	45	7	-	33	45	16,5	Ø9	4,5	12	102	5	187	-	-

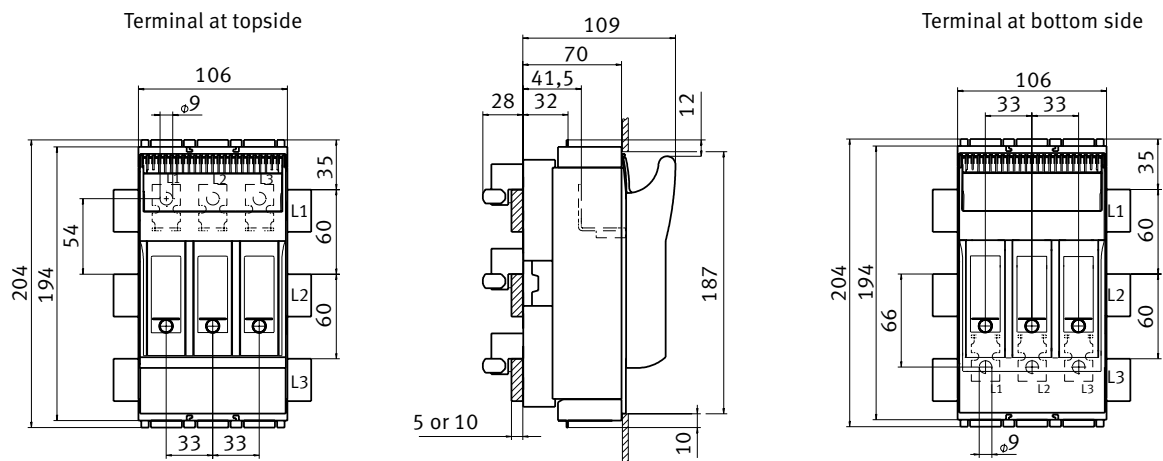


Part No.	Part No.
KETO-1-4/F	KETO-3-4/F

Type	a	b	c	e	f	g	h1	h2	h3	k1	k2	i	l	p	q	r	s	t1	t2	u
KETO-1-4	254	298	306	117	185	46	70	32	—	58	69	25	Ø10,5	4	19	138	5	272	—	—
KETO-3-4	341,5	298	306	143	205	36	90	32	70	82	89	26	Ø14	4	19	138	10	268	288	5

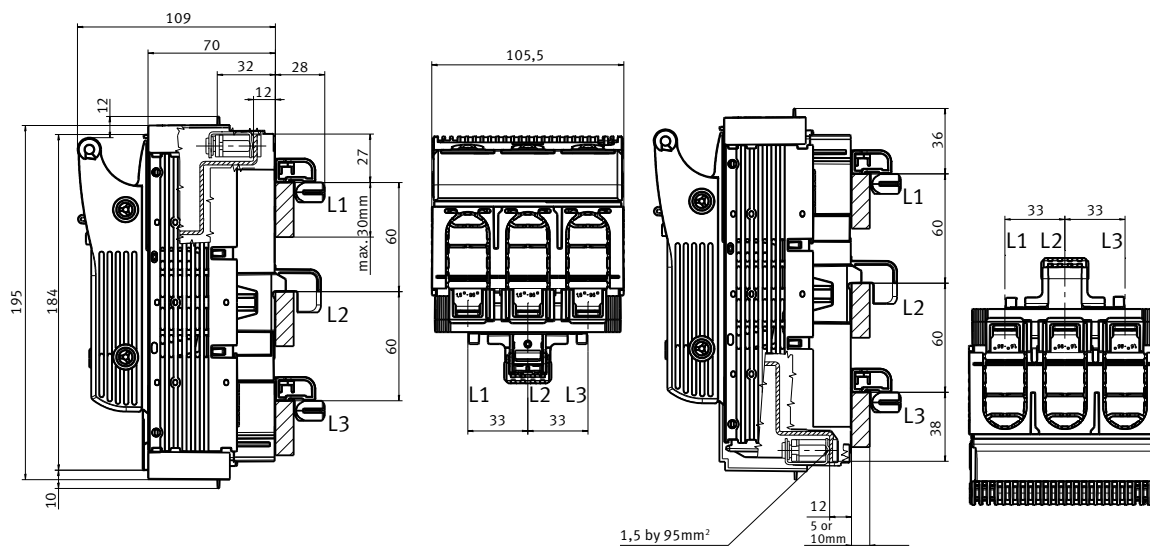


Part No.
KETO-00-3/60/AOU/F/(ESL, EST)
KETO-00-3/60/AOU/R95/(ESL, EST)



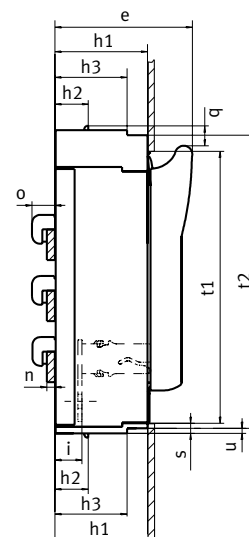
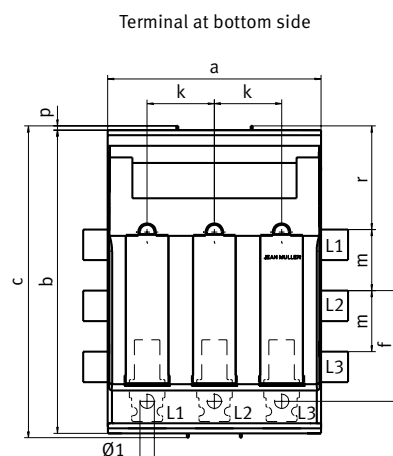
Part No.

KETO-00-3/60/AOU/R95T/(ESL)



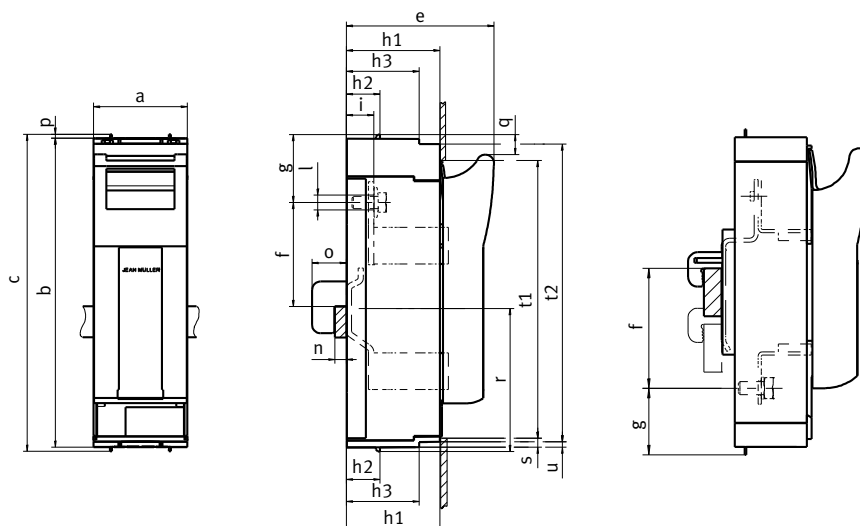
Part No.	Part No.
KETO-1-3/60/AOU/F/(ESL, EST)	KETO-2-3/60/AOU/R300/(ESL, EST)
KETO-1-3/60/AOU/R150/(ESL, EST)	KETO-3-3/60/AOU/F/(ESL, EST)
KETO-2-3/60/AOU/F/(ESL, EST)	KETO-3-3/60/AOU/R300/(ESL, EST)

Terminal at bottom side



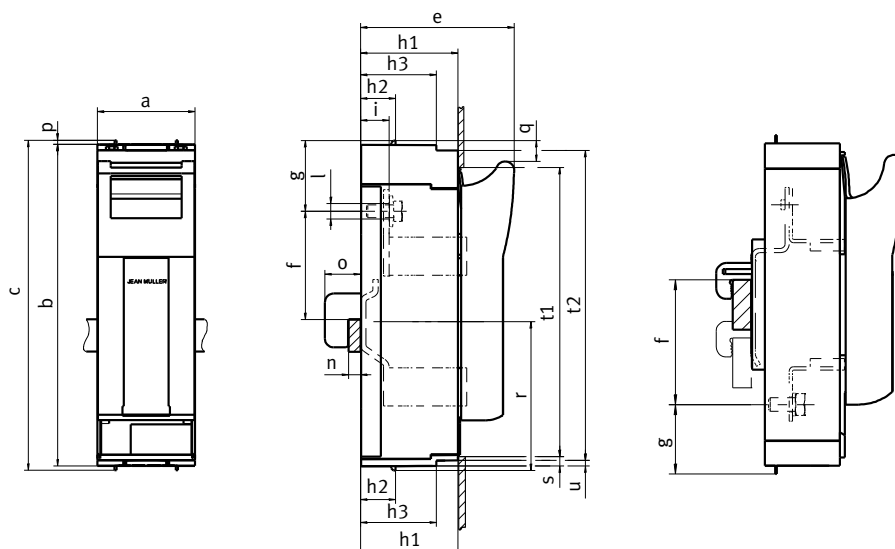
Type	a	b	c	e	f-Au	a-Ao	h1	h2	h3	i	k	l	m	n	o	p	q	r	s	t1	t2	u
KETO-1-3	184	298	306	117	98	87	70	32	-	25,5	58	Ø10,5	60	4-10	25	4	19	102	5	272	-	-
KETO-2-3	210	298	306	135	109	96	90	32	70	26,5	66	Ø14	60	4-10	25	4	19	102	10	268	289	5
KETO-3-3	250	298	306	143	109	96	90	32	70	26,5	82	Ø14	60	4-10	25	4	19	102	10	268	289	5

Part No.	Part No.
KETO-00-1/AOU/F	KETO-00-1/AOU/F/SK
KETO-00-1/AOU/R95	KETO-00-1/AOU/R95/SK



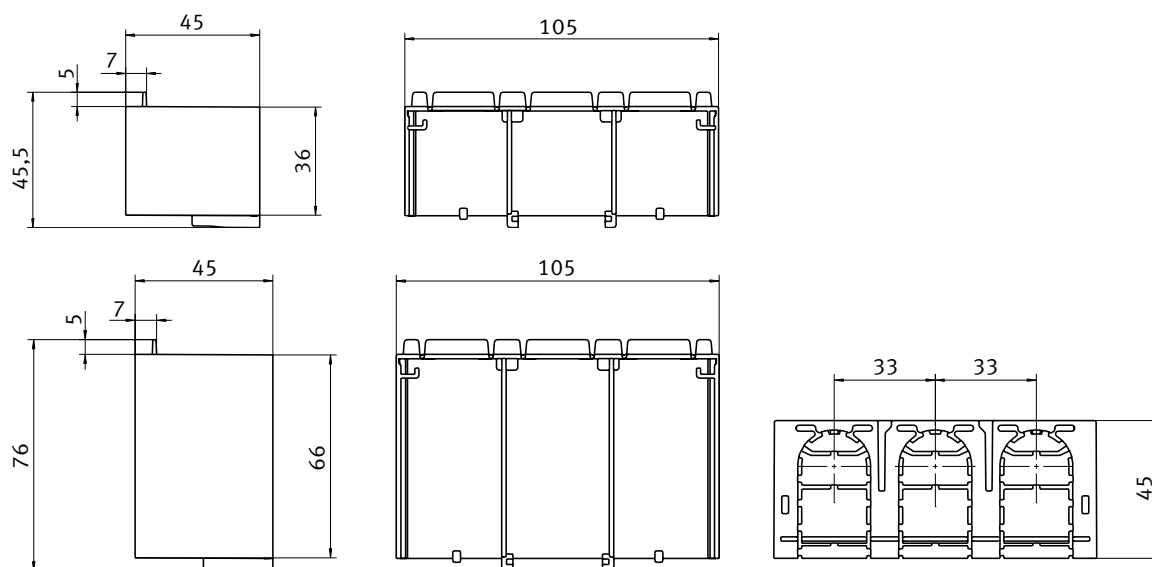
Type	a	b	c	e	f-Ao	f-Au	g-Ao	g-Au	h1	h2	i	l	n	o	p	q	r	s	t1
KETO-00-1	50	195	204	92	45,50,55 ... 75	75,70,65 ... 45	42	42	53	15	24,5	Ø9	4-10	22	4,5	12	102	5	187

Part No.	Part No.
KETO-1-1/AOU/F	KETO-1-1/AOU/F/SK
KETO-3-1/AOU/F	KETO-3-1/AOU/F/SK

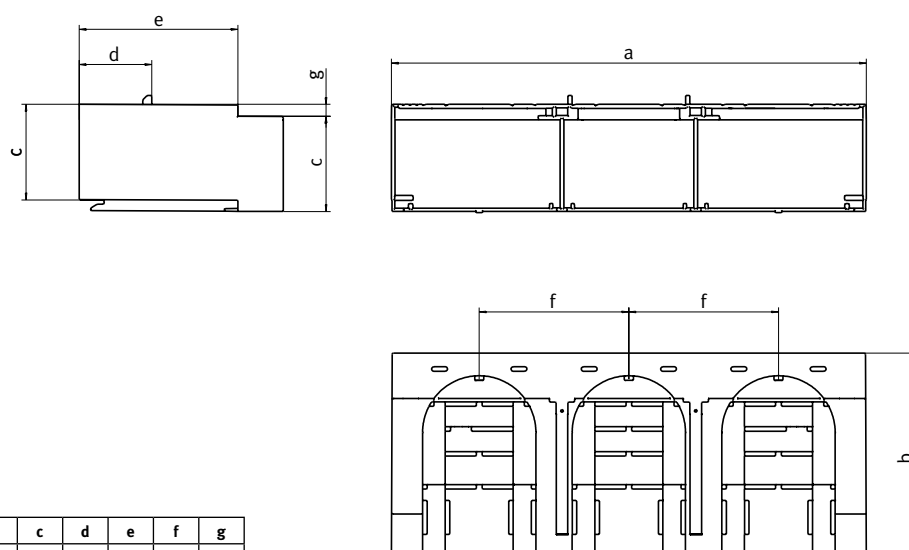


Type	a	b	c	e	f-Ao	f-Au	g-Ao	g-Au	h1	h2	h3	i	l	n	o	p	q	r	s	t1	t2	u
KETO-1-1	69	298	306	117	93	93	76	44	70	32	-	25,5	Ø10,5	5-10	33	4	19	138	5	272	-	-
KETO-3-1	91	298	306	143	100	104	66	36	90	32	70	26,5	Ø14	5-10	33	4	19	138	10	268	289	5

Part No.	Part No.
AA-KETO-00-3/36	AA-KETO-00-3/66

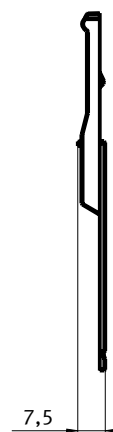
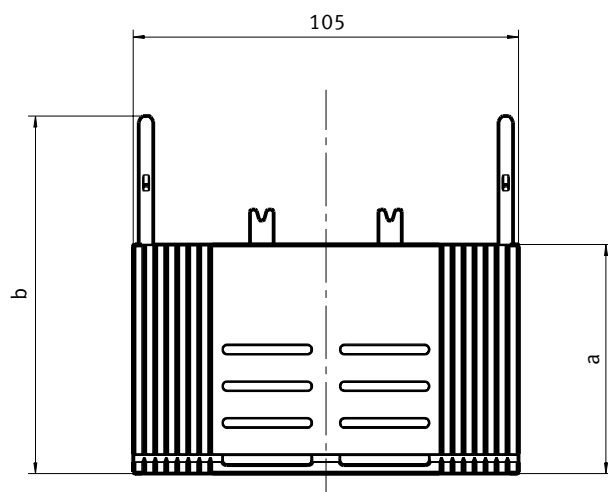


Part No.
AA-KETO-1-3
AA-KETO-2-3
AA-KETO-3-3



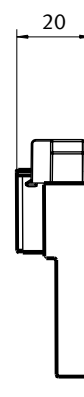
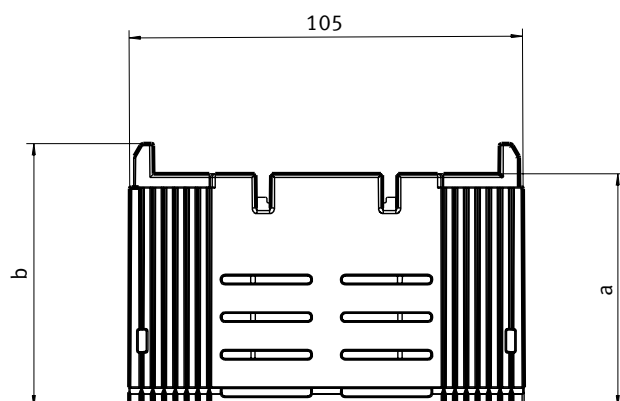
Type	a	b	c	d	e	f	g
AA-KETO-1-3	184	70	42	32	-	58	-
AA-KETO-2-3	210	90	42	32	70	66	5
AA-KETO-3-3	250	90	42	32	70	82	5

Part No.	Part No.
ARV-KETO-00-3/39-34	ARV-KETO-00-3/32



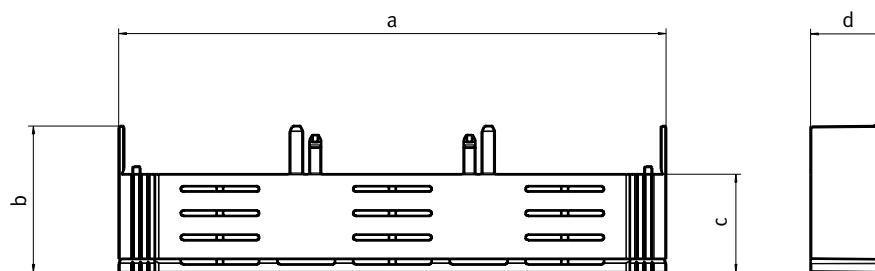
Type	a	b
ARV-KETO-00-3/39-34	62,5	97,5
ARV-KETO-00-3/32	55,5	90,5

Part No.	Part No.
UGS-KETO-00-3/39-34	UGS-KETO-00-3/32



Type	a	b
UGS-KETO-00-3/39-34	62	70
UGS-KETO-00-3/32	55	63

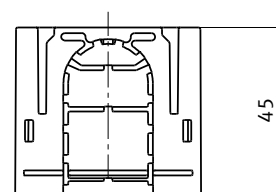
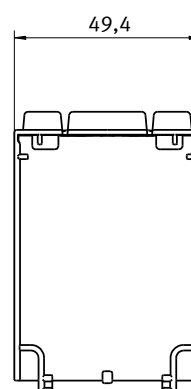
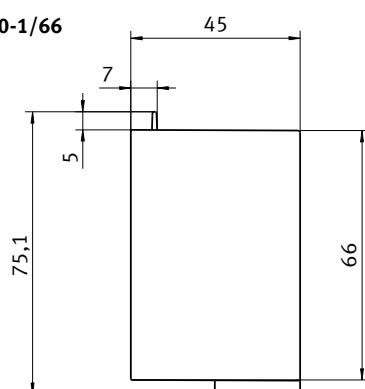
Part No.	Part No.
UGS-KETO-1-3/32	UGS-KETO-2-3/39-34
UGS-KETO-1-3/39-34	UGS-KETO-3-3/32
UGS-KETO-2-3/32	UGS-KETO-3-3/39-34



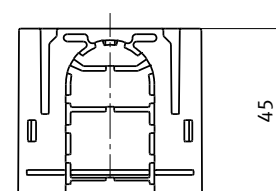
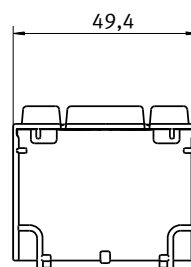
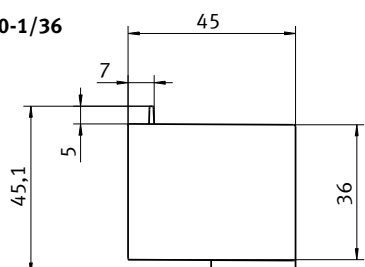
Type	a	b	c	d
UGS-KETO-1-3/32	184	51,5	30,5	16
UGS-KETO-1-3/39-34	184	58,5	37,5	16
UGS-KETO-2-3/32	210	49	30,5	28,5
UGS-KETO-2-3/39-34	210	56	37,5	28,5
UGS-KETO-3-3/32	250	49	30,5	28,5
UGS-KETO-3-3/39-34	250	56	37,5	28,5

Part No.	Part No.
AA-KETO-00-1/66	AA-KETO-00-1/36

AA-KETO-00-1/66

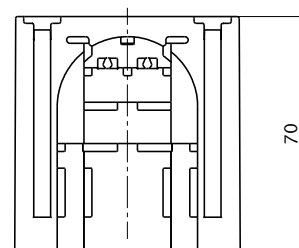
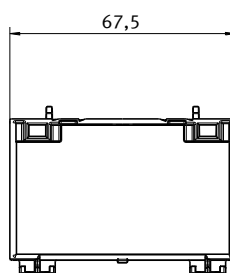
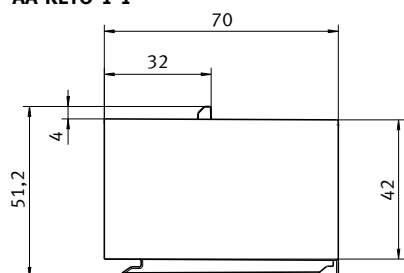


AA-KETO-00-1/36



Part No.	Part No.
AA-KETO-1-1	AA-KETO-3-1

AA-KETO-1-1



AA-KETO-3-1

