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Customer-focused and Innovative SASY 60i - now a UL-certified Component

SASY 60i - safe and reliable: In combination with the new generation of Eaton's motor protectors and circuit breakers, SASY 60i provides a universal UL-certified solution for switching, protecting and distributing power.

The modular SASY 60i busbar system by Eaton has been conceived for the efficient distribution of power in the switching cabinet. Thanks to busbar adapters, feed and output switches can be mounted directly onto the busbar system in a quick and a space-saving way.

Optimized busbar profile

The system offers many advantages. For example, the SASY 60i uses double-T-profile bars, thus reducing the time and effort needed to prepare the contact points. The profile uses very few busbar supports for very high rated peak withstand currents (lpk); it thus optimally utilizes the limited cabinet volume. In addition, dissipated heat is conducted in the best possible manner thanks to the large surface area of the busbar profile. Thanks to the market-conforming 60 mm center-to-center distance between the busbars, the system is compatible to other set-up components such as bus-mounting fuse bases or NH fuse switch disconnectors or the new D0-load disconnector switch using the D02-LTS/63/3-R type of fuse.

The latter provides for all-pole switching of the load (quick break) independent from manual switching, and safe fuse replacement in a voltage-free status. The device comes as standard with a flashing signal and contact position indicator, which either inform the user about a faulty fuse or show the switching status 0 or I of the device. The plug-type technology without fuse carriers (fuse plug) not only reduces the dissipated heat of the protective device while it is in operation, but also enables the user to replace a hot fuse after tripping without having to touch it with his hands. D02-LTS/63/3-R is available as a 3-pole and 4-pole version and it is extremely space-saving thanks to its overall width of 27 mm only. Retention springs making it easy to insert type D01 and cylindrical size 10x38 fuses in the fuse plugs are included in the scope of delivery. The load disconnector switch can of course be locked out and sealed.







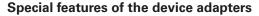


Sammelschienen-System SASY 60i für den Weltmarkt



Short installation time thanks to pre-assembly

Eaton offers direct and reversing starters up to 15 kW, fully mounted on busbar adapters. These fully assembled units consist of one PKZM0 motor protector and one or two DILM contactor(s). In order to mount these, they only need to be clicked in place on the busbar; this guarantees reduced assembly times and costs.





The device adapters offer a special functionality in that they can be mounted onto different profiles and busbar thicknesses. The adapters connect to the motor protector and circuit breaker directly over the busbars, comfortably and without requiring any boreholes, up to 630 A.

By reducing the width of the adapter to 45 mm, it has been possible to match it to the width of the motor protectors and contactors. The actual mounting surface on the busbar system is thus optimized, helping to save room in the switching cabinet.

Safety is always first priority

Safety for people and for the system is the most important factor with all our developments. Here, this prerequisite has been met with a comfortable connection on the rear side. It allows for a safe connection from the circuit breakers to the busbar adapters. In addition, mounting times are significantly reduced. Modular system covers guarantee optimized shock protection all around, and thus the highest possible level of safety.



A system designed for worldwide use

Together with its system components, the SASY 60i busbar system is designed for worldwide use in control cabinets for mechanical and system engineering. Its design has even taken into account the greater clearance and creepage distances that must be observed in the U.S. pursuant to UL 508A.



For busbar applications that have not been type-tested, UL508A allows an ampacity of 1000A/inch2 (1.55A/mm2). This value may be higher if the product or the application has been tested accordingly. Eaton has conducted extensive tests for the user's maximum benefit in using SASY 60i busbar systems. The advantage of such tests is that one can use busbar systems designed for higher rated currents than the default value allows. SASY 60i components and combinations are listed under File No. E300273 and E140305UL.

Since SASY 60i requires fewer system components, the need to stock parts and to place orders is diminished with the new Eaton busbar system.

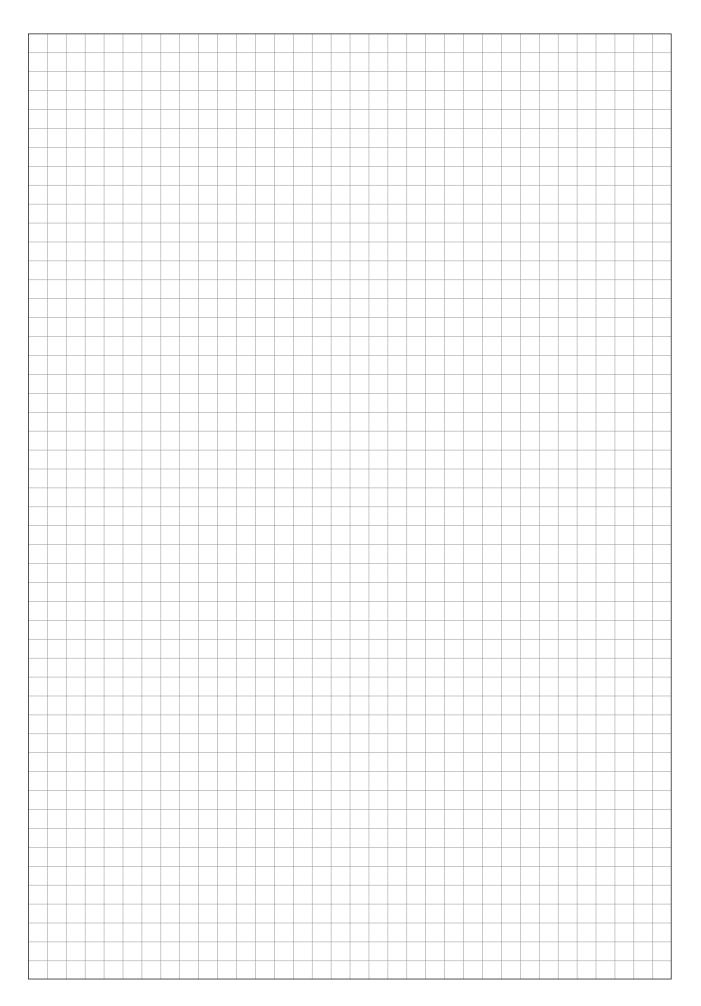


Table of Contents

wa vt01412



SASY 60i Bushar System	
Systems up to 630 A for Flat Busbars	Page xx
Systems up to 1250, 1600 A for Profile Bars	Page xx
Covers for 630, 1250 and 1600 A Systems	Page xx
Feeder Circuit Adapters for 630, 1250 and 1600 A Systems	Page xx
Terminals for 630, 1250 and 1600 & Systems	Pane vy

Covers for 630, 1250 and 1600 A Systems	Page xx
Feeder Circuit Adapters for 630, 1250 and 1600 A Systems	Page xx
Terminals for 630, 1250 and 1600 A Systems	Page xx
Lengthwise Bar Connections for 630, 1250 and 1600 A Systems	Page xx
Sammelschienenadapter als Einzelgeräte	Page xx
Sammelschienenadapter als Komplettgeräte	Page xx
Fuse Switch Disconnectors XNH	Page xx
Fuse Switch Disconnectors LTS, FC, NH-SLS	Page xx
Lammelliertes Copperband	Page xx

Line Supports Page xx

wa_vt01412



Description

- Selected components are also conforming with UL-standards for control systems
- 60 mm spacing between busbars
- 630, 1250 and 1600 A rated current
- Adapter technology for Switch Disconnectors
- Adapter technology for Motor Starters
- Slide fuse equipment
- Connection technique

Units per

Article No.

Systems up to 630 A for Flat Busbars

Туре

Notes

Utilisation

Poles

Max. Rated

Special Features

	Poles Number	Max. Rated Operational Current I _e (A)	Special Features	Utilisation	Notes	Type Designation	Article No.	Units per package		
	System	s up to 630	A for Flat Busba	ırs						
	Busbar S	Support								
	ThermopHalogen-Self-extinRAL 703tTrack res	lasticic, silicone free nguishing accord								
	IEC Busb	ar Support								
.vi09913	3	630	With snap-in slide for adapting to the respective size of the bar	12 x 5/10 15 x 5/10 20 x 5/10 25 x 5/10 30 x 5/10	holes inside for	BBS-3/FL	107066	10		
63535_0	4	630	With snap-in slide for adapting to the respective size of the bar	12 x 5/10 15 x 5/10 20 x 5/10 25 x 5/10 30 x 5/10		BBS-4/FL	138381	10		
и10013	UL Busba	r Support 630	With snap-in slide for adapting to the		With pre-drilled holes inside for	BBS-3/FL-NA	107067	10		
1			respective size of the bar		screw-fixing					
	If used in feeder circuits according to UL 508A up to 600 V, it is necessary use the BBC-BT-NA base plate in addition.									
	PE/N Bus	bar Support								
v10213	2	630	With snap-in slide for adapting to the respective size of the bar	12 x 5/10 15 x 5/10 20 x 5/10 25 x 5/10 30 x 5/10		BBS-2/FL	107069	10		
v11713	1	630	With snap-in slide for adapting to the respective size of the bar	12 x 5/10 20 x 5/10 30 x 5/10		BBS-1/FL	107161	10		
	Compact	Busbar Supp	ort							
35310, VT35410	3	630	With a removable contact block to adj it to the respective size of the bar	12 x 5/10 ust	With pre-drilled holes inside for screw-fixing and integrated end	BBS-3/FL-C	138370	10		

Systems up to 630 A for Flat Busbars

Marchiteria Marchiteria		Poles Number	Max. Rated Operational Current I _e (A)	Special Features	Utilisation	Notes	Type Designation	Article No.	Units per package
To cover ES-BBS-3/FL 107068 the bushar and for page 3/FL 107068 the bushar and for page 3/FL 107068 the bushar and for page 3/FL 107068									
Silicone-free	wa_v110413		-	-	the busbar ends for BBS-3/FL and	-	ES-BBS-3/FL	107068	10
Comparison		Silicone-freSelf-extingu	e, chlorine-fre uishing accord	ing to UL 94					
**Silicone-free, chlorine-free	wa_vr13713	_	-	the air gap between fully equipped busbar systems and mounting plate is	for UL sup- port		BBC-BT-NA	107172	2
Max. Rated Dimension Length Notes Type Article No. Designation Current I _e (A) (mm x mm) (mm) (mm)		Silicone-freSelf-extingu	e, chlorine-fre uishing accord	ing to UL 94	15 x 5		BBC-FL5	107173	10
Max. Rated Dimension Length Notes Type Article No.					25 x 5				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			-	-	15 x 5 20 x 5 25 x 5		BBC-FL10	107174	10
Flat Copper Rails		Operational		Dimension	Length	Notes		Article No.	Units per package
wa_v100408 160 12 x 5 1500 tinned CU12X5 034121 2250 tinned CU12X5-2250 005093 250 20 x 5 1500 tinned CU20X5 044092				(mm x mm)	(mm)				
160 12 x 5 1500 tinned CU12X5 U34121 2250 tinned CU12X5-2250 005093 250 20 x 5 1500 tinned CU20X5 044092		Flat Copper	Rails						
250 20 x 5 1500 tinned CU20X5 044092	wa_vt00408	160		12 x 5	1500	tinned	CU12X5	034121	10
									10
0000 .' 0100//0000 000100		250		20 x 5					10
					2250	tinned	CU20X5-2250	007466	10
wa_v100308 460 20 x 10 1500 tinned CU20X10 041719	wa_vt00308	– 460		20 x 10					10
2250 tinned CU20X10-2250 009839 630 30 x 10 1500 untreated CU30X10 051211	VE STORES			00.40					10

Systems up to 1250, 1600 A for Profile Bars

Max. Rated Special Features Poles Utilisation Notes Туре Article No. Units per Designation Operational package Current I_e (A) Number Systems up to 1250, 1600 A for Profile Bars **Busbar Support** • Thermoplasticic, silicone-free, chlorine-free Halogen-free • Self-extinguishing according to UL 94 • RAL 7035 • Track resistance CTI 200 • Temperature-resistant up to 120 °C **Busbar Support Double-T-Profile** 3 1600 Double-T-With pre-drilled BBS-3/PR 107162 Suitable as lateral 3 Profile holes inside for and central support screw-fixing 1600 Double-T-BBS-1/PR 107165 Suitable for setting With pre-drilled 10 up a PE or N bar Profile holes inside for screw-fixing **End Cover** For the ES-BBS-3/PR 107164 BBS-3/PR support **UL Base Plate** • Silicone-free, chlorine-free • Self-extinguishing according to UL 94 • Temperature-resistant up to 110 °C To be used when Necessary 1100 mm long BBC-BT-NA 107172 the air gap between for UL supfully equipped port busbar systems and BBS-3/FL-NA mounting plate is insufficient **Double-T-Profile Busbar** 12501) Tin-plated 2400 mm long CU-BAR-500/T 107166 Cross-section BBS-3/PR $500 \; mm^2$ and BBS-1/PR supports

wa vt10113

wa_vt10313

wa_vt13713

wa_vt13113

wa_vt13013

2400 mm long

CU-BAR-720/T

For

and BBS-1/PR supports

BBS-3/PR

16001)

Tin-plated

720 mm²

Cross-section

107167

¹⁾ At a busbar temperature of 87.5 °C and an ambient temperature of 35 °C, please refer to the current load diagram in the Technical Data section for further values.

1.6

SASY 60i Busbar System

Systems up to 1250, 1600 A for Profile Bars

Poles	Max. Rated Operational Current	Special Features	Utilisation	Notes	Type Designation	Article No.	Units per package
Number	I _e (A)						
Busbar C	overs						
• Self-exti	-free, chlorine-fre nguishing accord ature-resistant up	ding to UL 94					
_	-	_	For Double T-Profile	e- 1000 mm long	BBC-CU-BAR/PR	107175	5



Covers for 630, 1250 and 1600 A Systems

					package
	Covers for 630, 1250 and 1600 A Systems				
	Spare Section Cover - Modular				
wa_vt13213	To cover the front of the 60 mm system	700 mm long. To be used with BBC-MRCOV1 sup- port only	BBC-RCOV1	107178	2
	Cumpart for Chara Castian Cara				
wa_vt11613	Support for Spare Section Cover	T 1 1 10	DDO MDOOVA	107170	
	Suits any thickness of bars	To be used with spare section cover BBC-RCOV1 only	BBC-MRCOV1	107179	10
	Cover complete				
wa_v109613	For 3-pole systems	228 mm long	BBC-CS1	107209	1
01063500_0	For 3-pole systems	270 mm long	BBC-CS3	138377	1
1	Tur 3-pute systems	270 min long	<u> </u>	130377	
11063507_0	For 4-pole systems	228 mm long	BBC-CS4	138387	1
	Single covers				
	Compartment Section Double-T				
wa_v112913	For 3-pole systems with BBS-3/PR	48 mm high 2400 mm long To be fixed at the (profile) bar support	BBC-CS48/PR	107176	1
va_vd12813	For 3-pole systems with BBS-3/PR	76 mm high 2400 mm long To be fixed at the (profile) bar support	BBC-CS76/PR	107177	1
	Front Plate Cover for front plate cut-out				
SG13506	Cover module for cut-out. Height = 195 mm	54 mm width	AM-195/54	107963	15

Covers for 630, 1250 and 1600 A Systems

Utilisation Notes Type Article No. Units per Designation Designation package

System Cover - Kit

- Silicone-free, chlorine-free
- Self-extinguishing according to UL 94
- \bullet Temperature-resistant up to 120 °C

For 3-pole systems

wa_vt09613	BBC-CS2-T/B
	BBC-CS2-F

Cover Profile Front	1100 mm long	BBC-CS2-F	107180	1	
Cover Profile Top/Bottom	1100 mm long	BBC-CS2-T/B	107181	2	
Support Set for Cover Profile	1 set includes a right and left side support	BBC-MCS2	107182	1	

wa_vt09613 BBC-CS4-T/B

BBC-MCS2



For 4-pole systems				
Cover Profile Front	1100 mm long	BBC-CS4-F	138384	1
Cover Profile Top/Bottom	1100 mm long	BBC-CS4-T/B	138383	2
Support Set for Cover Profile	1 set includes a right and left side support	BBC-MCS4	138382	1

System Cover - Compact

Empty-section Cover, Modular

- To cover the front of the Compact System
- For use with BBC-MRCOV3-C only

_					
	_	700 mm long	BBC-RCOV3-C	138371	2

Support for Spare Section Cover

- Suitable for 5 and 10 mm bar thickness
- For use with BBC-RCOV3-C only



12 x 5/10	BBC-MBCOV3-C	138372 10	

Notes

Туре

Article No. Units per

Feeder Circuit Adapters for 630, 1250 and 1600 A Systems

Utilisation

	Number	Operational Current I _e (A)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Designation		package
	Feeder	Circuit Ada	apters for 630, 125	50 and 16	00 A Systems			
	Connect	ing Termina	l Plates					
wa_vt15113	3	80	1.5 - 16 mm ² AWG 16 - AWG 6 ⊕	12x5/10 15x5/10 20x5/10 25x5/10 30x5/10 Double-T- Profile	20 mm width. With spring-type terminal technology	BBA-TP3/16	107205	1
wa_v109813	3	300	6 - 50 mm ² AWG 10 - AWG 2/0 ③ ⊙ ■ 6x9x0.8	12x5/10 15x5/10 20x5/10 25x5/10 30x5/10 Double-T- Profile	54 mm width. Terminals can be removed for connecting non-cut conductors. Looping them through is possible. Termination space 10 x 15 mm.	BBA-TP3/50	107183	1
wa_vt09713	3	440	35 - 120 mm ² AWG 2 - MCM 250 ⊕ ⊕ 10x16x0.8	12x5/10 15x5/10 20x5/10 25x5/10 30x5/10 Double-T- Profile	81 mm width. Terminals can be removed for connecting non-cut conductors. Looping them through is possible. Termination space 15 x 15 mm.	BBA-TP3/120	107184	1
	Connect	ing Termina	l Plates Compact					
01063465,0	3	480	35 - 150 mm ² AWG 2 - MCM 300 ⊕ ⊕ 10x20x1	12x5/10	90 mm width. Terminals can be removed for connecting non-cut conductors. Contacting is provided for through the cable bed. Compact System.	BBA-TP3/100-C	138373	1

Poles

Max. Rated

Type of Conductor¹⁾

Round conductor, single-wired

Round conductor, fine-wired with expertly pressed wire end ferrule

Round conductor, multi-wired

Sector conductor, single-wired

Sector conductor, multi-wired

Cu-Band

Cu-Band

Cu-Bar

Feeder Circuit Adapters for 630, 1250 and 1600 A Systems

	Poles Number	Max. Rated Operational Current I _e (A)	Type of Conductor ¹⁾	Utilisation	Notes	Type Designation	Article No.	Units per package
	• Silicone-free • Self-extingu • Track resista • Temperature	e, chlorine-fre ishing accord ance CTI 200	ing to UL 94					
wa_v109613	3	560	95 - 300 mm ² MCM300 - MCM600 directly terminated: ① ①	20x5/10 25x5/10 30x5/10 Double-T- Profile	180 - 240 mm width. Clearance between poles can be adjus- ted as required. To be fixed directly on top of the bus- bar terminal. Incl. cover cap in flexible width. Looping then through is possible.		107185	1
wa_v113513 wa_v109613	3	800	Up to 10x32x1 30x25	20x5/10 25x5/10 30x5/10 Double-T- Profile	Clearance between poles can be adjus-	·	107186	1
wa_y161313 wa_y109613	3	1600	Up to	30x10 Double-T- Profile	228 mm width. Co-ordinated up for Eaton NZM4. To be fixed directly on top of the busbar terminal. Incl. cover cap in flexible width. Looping them through is possible. Termination space 5 x 28 mm.		107207	1

Round conductor, single-wired

Round conductor, fine-wired with expertly pressed wire end ferrule

Round conductor, multi-wired

Sector conductor, single-wired

Sector conductor, multi-wired

Cu-Band

Cu-Band

Cu-Bar

Feeder Circuit Adapters for 630, 1250 and 1600 A Systems

Poles Max. Rated Type of Conductor¹⁾ Utilisation Notes Туре Article No. Units per Operational Designation package Current I_e (A) Number

Connecting Set with Cover 4-pole

- Silicone-free, chlorine-free
- Self-extinguishing according to UL 94
- Track resistance CTI 200
- \bullet Temperature-resistant up to 120 °C

va_vt13513		
100	W /	A 15
49.10	100 4	The state of
	100	E-ET
-		NC3/
21	- 1	120
10.1	750	3021
211	III A	
2011	15.0	
120	198	
\$27	-	
459.00		



4	560	95 - 300 mm ²	20x5/10	180 - 240 mm width.	BBA-TP4/300	138385	1
		MCM300 - MCM600	25x5/10	Clearance between			
		directly terminated:	30x5/10	poles can be adjus-			
			Double-T-	ted as required.			
		\odot	Profile	To be fixed directly			
		⋄		on top of the bus-			
				bar terminal. Incl.			
				cover cap in flexible			
				width. Looping then	ı		
				through is possible.			





4	800	Up to	20x5/10 25x5/10 30x5/10 Double-T- Profile	180 - 240 mm width. BBA-TP4/CU-BAND 138386 1 Clearance between poles can be adjusted as required. To be fixed directly on top of the busbar terminal. Incl. cover cap in flexible width. Looping them through is possible. Termination space
				32 x 25 mm.



Round conductor, single-wired

Round conductor, fine-wired with expertly pressed wire end ferrule

Round conductor, multi-wired

Sector conductor, multi-wired

Sector conductor, multi-wired

Cu-Band

SASY 60i Busbar System

Terminals for 630, 1250 and 1600 A Systems

	Max. Rated Operational Current I _e (A)	Type of Conductor ¹⁾	Special Features	Utilisation	Notes	Type Designation	Article No.	Units per package
	Terminal	s for 630, 1250	and 1600 A Sy	stems				
	Brace Ter • Connection	rminals n method to busbars v	vithout drilling					
VT35910	480	38 - 150 mm², AWG2/0 - MCM300. directly terminated: ①	Connection method to busbars without drilling	12x5/10 20x5/10	Contacting of wire and busbar via a cable bed	AKS150	138374	6
VT13306	500	95 - 185 mm², AWG3/0 - MCM350. directly terminated:	Connection method to busbars without drilling	20x5/10 25x5/10 30x5/10 Double-T- Profile	Contacting of wire and busbar via a cable bed	AKS185	107195	6
VT13406	600	95 - 300 mm ² , MCM300 - MCM600. directly terminated:	Connection method to busbars without drilling	20x5/10 25x5/10 30x5/10 Double-T- Profile	Contacting of wire and busbar via a cable bed	AKS300	107196	6
VT13206	800	3x20x1 to 2x(10x32x1) 32x25	Connection method to busbars without drilling Termination space 32 x 25 mm.	30x5/10	Contacting of wire and busbar via a contacting block	AKS-CU-BAND	107197	3
wa_vt61313	1600	Up to (2x)10x50x1 Up to (2x)50x10	Connection method to busbars without drilling Termination space 55 x 28 mm.	30x5/10	Contacting of wire and busbar via a contacting block	AKS1000	107208	1
01063437.0	1600	Up to (2x)60x10	Connection method to busbars without drilling Termination space 68 x 28 mm.	Profile	Contacting of wire and busbar via a contacting block	AKS1200	138375	3
01063444_0	1600	Up to (2x)100x10	Connection method to busbars without drilling Termination space 105 x 28 mm.	Profile	Contacting of wire and busbar via a contacting block	AKS2000	138376	3

- Round conductor, single-wired

 Round conductor, fine-wired with expertly pressed wire end ferrule

 Round conductor, multi-wired

 Sector conductor, single-wired

 Sector conductor, multi-wired

 Cu-Band

 Cu-Band

Terminals for 630, 1250 and 1600 A Systems

	Max. Rated Operational Current I _e (A)	Type of Conductor ¹⁾	Special Features	Utilisation	Notes	Type Designation	Article No.	Units per package
		rminals ²⁾ n method to busbars v parallel connection of		oer bars, plea	ase place spacers in	bet		
01063395_0	1600	750 mm ² , Termination space 51 x 5-28	Connection method to busbars without drilling		Width 82 mm	AKP750	138364	3
wa_v112413	1600	800 mm², Termination space 41 x 20-42	Connection method to busbars without drilling		Width 72 mm	AKP800	107198	3
01063402_0	1600	900 mm², Termination space 64 x 5-28	Connection method to busbars without drilling		Width 94 mm	AKP900	138365	3
wa_v112313	1600	1000 mm², Termination space 51 x 20-42	Connection method to busbars without drilling		Width 94 mm	AKP1000	107199	3
01063409_0	2000	1200 mm², Termination space 64 x 20-42	Connection method to busbars without drilling		Width 94 mm	AKP1200	138366	3
01063416,0	2500	1600 mm², Termination space 81 x 20-42	Connection method to busbars without drilling		Width 112 mm	AKP1600	138367	3
01063430_0	3200	3600 mm², Termination space 101 x 23-45	Connection method to busbars without drilling	Triple-T- s Profile	Width 132 mm	AKP3600	138369	3

Round conductor, single-wired
Round conductor, fine-wired with expertly pressed wire end ferrule
Round conductor, multi-wired

Sector conductor, multi-wired

Sector conductor, multi-wired

Cu-Band

Cu-Bar

²⁾ Für UL508A-System with Profilklemme ist die Utilisation der UL Base Plate BBC-BT-NA and Sammelschienenabdeckung BBC-CU-BAR/PR erforderlich.

Terminals for 630, 1250 and 1600 A Systems

	Max. Rated Operational Current I _e (A)	Type of Conductor ¹⁾	Special Features	Utilisation	Notes	Type Designation	Article No.	Units per package
	Universal (Conductor Term	inal 5 mm					
VT18406	180	1.5 - 16 mm², AWG14 - AWG6. directly terminated:	With integrated retaining spring, captive terminal screw, opened termination space 7.5 x 7.5 mm	All flat busbars of a thickness of 5 mm	-	AKU16/5	107187	100
VT18306	270	4 - 35 mm², AWG10 - AWG2. directly terminated: 3x9x0.8 or 6x9x0.8		All flat busbars of a thickness of 5 mm	-	AKU35/5	107188	50
VT18206	400	16 - 70 mm², AWG4 - AWG2/0. directly terminated:	With integrated retaining spring, captive terminal screw, opened termination space 14 x 14 mm	All flat busbars of a thickness of 5 mm	-	AKU70/5	107189	25
VT18106	440	16 - 120 mm², AWG4 - MCM250. directly terminated:	With integrated retaining spring, captive terminal screw, opened termination space 17 x 15 mm	All flat busbars of a thickness of 5 mm	-	AKU120/5	107190	25

¹⁾ Round conductor, single-wired
3: Round conductor, fine-wired with expertly pressed wire end ferrule
4: Round conductor, multi-wired
5: Sector conductor, single-wired
6: Sector conductor, multi-wired
6: Cu-Band
7: Cu-Bard

Terminals for 630, 1250 and 1600 A Systems

	Max. Rated Operational Current I _e (A)	Type of Conductor ¹⁾	Special Features	Utilisation	Notes	Type Designation	Article No.	Units per package
	Universal	Conductor Term	inal 10 mm					
VT13806	180	1.5 - 16 mm², AWG14 - AWG6. directly terminated:		All flat busbars of a thickness of 10 mm	-	AKU16/10	107191	100
VT13706	270	4 - 35 mm², AWG10 - AWG2. directly terminated:		All flat busbars of a thickness of 10 mm	-	AKU35/10	107192	50
VT13606	400	16 - 70 mm², AWG4 - AWG2/0. directly terminated: ① ① 2x(3x9x0.8) or 6x9x0.8	With integrated retaining spring, captive terminal screw, opened termination space 14 x 14 mm	All flat busbars of a thickness of 10 mm	-	AKU70/10	107193	25
VT13506	440	16 - 120 mm², AWG4 - MCM250. directly terminated:	With integrated retaining spring, captive terminal screw, opened termination space 17 x 15 mm	All flat busbars of a thickness of 10 mm	-	AKU120/10	107194	25
01063451_0	490	Cable lug M8	With integrated retaining spring, captive terminal screw, opened termination space, bolt M8x8	All flat busbars of a thickness of 10 mm, Double-T- Profile	-	AKU-M8/10	138362	20
01063458,0	630	Cable lug M10	With integrated retaining spring, captive terminal screw, opened termination space, bolt M10x10	All flat busbars of a thickness of 10 mm, Double-T- Profile	-	AKU-M10/10	138361	6



Round conductor, single-wired

Round conductor, fine-wired with expertly pressed wire end ferrule

Round conductor, multi-wired

Sector conductor, single-wired

Sector conductor, multi-wired

Cu-Band

Cu-Band

Cu-Bar

Terminals for 630, 1250 and 1600 A Systems

Max. Rated Type of Conductor¹⁾ Special Features Utilisation Notes Article No. Units per Operational Designation package Current I_e (A)



Brace 1	Terminals 				
630	-	Width 50 mm	All flat — busbars of a thick- ness of 10 mm and CU-BAND11x21x1	PK900	138378 3



Connec	tion Terminals						
630	95 - 300 mm²	Width 48 mm. Contacting of wire and busbar via a cable bed.	e Double-T-	AK300	138336	3	

Round conductor, single-wired

Round conductor, fine-wired with expertly pressed wire end ferrule

Round conductor, multi-wired

Sector conductor, single-wired

Sector conductor, multi-wired

Cu-Band

Cu-Band

Cu-Bar

Lengthwise Bar Connections for 630, 1250 and 1600 A Systems

	Max. Rated Operational Current I _e (A)	Width	Special Features	Utilisation	Notes	Type Designation	Article No.	Units per package
	Lengthw	ise Bar Co	nnections for 630,	1250 and	l 1600 A System	s		
		onnecting To						
	For drill-free	ee connection of	fidentical types of busbars					
wa_vt27113	630	38	For identically shaped, flat copper bars	12 x 5/10 15 x 5/10 20 x 5/10	tems 100 - 110 mm.		138379	12
wa_vt12513	630	150	For identically shaped, flat copper bars	12 x 5/10 15 x 5/10 20 x 5/10	Spacing between systems 100 - 110 mm. Max. permissible mis-alignment of bars is 1 mm	BBT-CU12- 20X5/10-150	107200	3
01063549_0	630	40	For identically shaped, flat copper bars	20 x 5/10 25 x 5/10 30 x 5/10		BBT-CU20- 30X5/10-40	138380	6
wa_vt12113	630	95	For identically shaped, flat copper bars	20 x 5/10 25 x 5/10 30 x 5/10	Spacing between systems 50 - 60 mm. Max. permissible mis-alignment of bars is 5 mm	BBT-CU20- 30X5/10-95	107201	3
wa_v12013	630	150	For identically shaped, flat copper bars	20 x 5/10 25 x 5/10 30 x 5/10	Spacing between systems 100 - 110 mm. Max. permissible mis-alignment of bars is 5 mm	BBT-CU20- 30X5/10-150	107202	3
we_v11913	1600	50	For different and identical types of double-T-profile bars	Double-T- Profile	Spacing between systems 9 - 20 mm. Max. permissible mis-alignment of bars is 2 mm	BBT-CU- BAR500/720-50	107203	6
wa_vt11813	1600	150	For different and identical types of double-T-profile bars	Double-T- Profile	Spacing between systems 100 - 110 mm. Max. permissible mis-alignment of bars is 5 mm		107204	3

Max. Rated

Operational

Rated

Operational

SASY 60i Busbar System

Adapter Adapter Special Features Utilisation Notes

NZM Busbar Adapter, 3-pole

Width Length

	Current I _e (A)	Voltage U _e (V)	(mm)	(mm)		Designation		раскаде
	NZM Bu	ısbar Ada	pter, 3	3-pole				
		Adapter NZ		•				
	For use oSelf-extirTrack res		pars 12 - Fording to 10	UL 94	I, Double-T-Profiles and Trip	le-T-Profiles		
68 AO	160	690	92	200	For connecting NZM1 to the system PN1 at the top N1 or bottom NS1 through fixed connection bars included in the scope of delivery ^{1) 2)}	For switches NZM1-XAD160 with standard connection frame-type terminals. To be snapped onto the busbar by means of a combi-base.	104554	1
	250	690	106	190	For connecting NZM2 to the system at PN2 the top/bottom N2 through a tubetype of connection at the rear. Tube included in the scope of delivery. ³⁾	Use only in NZM2-XAD250 combination with auxiliary type (+)NZM2-XKR4 To be screwed tonto the busbar by means of a claw-type of clamp.	104555	1
13, wa_w12213	630	690	140	300	For connecting NZM3 to the system at PN3 the top/bottom N3 through a tube-type of connection at the rear. Tube included in the scope of delivery.3)	Use only in NZM3-XAD630 combination with auxiliary type (+)NZM3-XKR13 To be screwed tonto the busbar by means of a claw-type of clamp.	107206	1
	Terminal	for Device	e Adad	pter NZ	<u>XM</u>			
13	250	690	-	-	To cover the NZM2 connection to PN2 the system at N2 the top/bottom NS2	For device NZM2-XKR4 combination NZM2 use with auxiliary type +NZM2-XKR40 or +NZM2-XKR4U	281666	1
13	630	690	-	-	To cover the NZM3 connection to PN3 the system at N3 the top/bottom	For device com- NZM3-XKR13 bination NZM3 use with auxilia- ry type +NZM3- XKR130 or +NZM3- XKR13U	281668	1

 $^{^{\}mbox{\scriptsize 1)}}$ To be snapped onto the voltage-free busbar.

Article No.

Designation

Units per

package

²⁾ Thanks to the combi-base it can be adjusted to a bar width of both 5 and 10 mm.

 $^{^{\}rm 3)}$ To be screwed onto the voltage-free busbar.

1.19

NZM Busbar Adapter, 4-pole

Max. Rated	Rated	Adapter	Adapter	Special Features	Utilisation	Notes	Type	Article No.	Units per
Operational	Operational	Width	Length				Designation		package
Current	Voltage								
I _e (A)	U _e (V)	(mm)	(mm)						

NZM Busbar Adapter, 4-pole

Busbar Adapter NZM

- For use on flat copper bars 12 30 x 5/10, Double-T-Profiles and Triple-T-Profiles
- Self-extinguishing according to UL 94
- Track resistance CTI 200
- \bullet Temperature-resistant up to 120 °C

	1616
010	1818
000	000

250	690	140	-	For connecting	NZM2(-4)	Use only in	NZM2-4-XAD250	138388	1	
				to the system at	PN2(-4)	combination with	h			
				the top through	N2(-4)	auxiliary type				
				a tubetype of	NS2(-4)	(+)NZM2-4-XKR4	1			
				connection at		To be screwed				
				the rear. Tube		tonto the busbar				
				included in the		by means of a				
				scope of deli-		claw-type of				
				very.3)		clamp.				



630	690	185	-	For connecting NZM3(to the system at PN3(-4) the top through N3(-4) a tubetype of NS3(-4) connection at the rear. Tube included in the scope of deli- very. ³⁾	combination wit	138389	1

ZM2-4-XKR4	
Himi	III in
Ш	
20 00	ш

Termin	al for Devi	ce Adad	lpter N	ZM			
250	690	-	-	To cover the connection to the system at the top	For device com- NZM2-4-XKI bination NZM2 use with auxiliary type +NZM2-4- XKR40	34 118907	1
630	690	-	-	To cover the connection to the system at the top	 For device com- NZM3-4-XKI bination NZM3 use with auxiliary type +NZM3-4-XKR130	313 119020	1



 $^{^{\}rm 1)}$ To be snapped onto the voltage-free busbar.

 $^{^{2)}}$ Thanks to the combi-base it can be adjusted to a bar width of both 5 and 10 mm, cross-section of conductor 6 x 9 x 0.8.

³⁾ To be screwed onto the voltage-free busbar.

xStart Busbar Adaptor, 3-pole1)

	Max. Rated Operational Current I _e (A)	Rated Operational Voltage U _e (V)	Wire Cross Section	Adapter Width (mm)	Adapter Length (mm)	Sup- port Rails	Utilisation		Type Designation	Article No.	Units per package
	xStart B	Busbar Ad	aptor, 3	3-pole1)						
	Busbar A	Adapter xS	tart 25 A	1							
a_v10913	25	690	AWG12	45	200	1	PKZM0+ Contactor DIL M 7 Contactor DIL M 9 Contactor DIL M 12 Contactor DIL M 15 MSC-D-0,25-M7 to MSC-D-16-M15	Direct starter set PKZM0-XDM12	BBA0-25	101451	4
_vt10513	25	690	AWG12	90	200	1	PKZM0+ 2x Contactor DIL M 7-01	starter set	BBA0R-25	101453	2
							2x Contactor DIL M 9-01 2x Contactor DIL M 12-01 MSC-R-0,25-M7 to MSC-R-12-M12				
	Busbar A	Adapter xS	tart 25 <i>A</i>	, Unive	rsal Ty	/pe					
_vt10713	25	690	AWG12	45	200	12	Support rail adjustable on the		BBA0- 25/2TS	101481	4
							1.25 mm grid				
	Busbar A	Adapter xS	tart 32 A				1.25 mm grid				
	Busbar A 32	Adapter xS	tart 32 A		200	2	PKZM0+ Contactor DIL M 17 Contactor DIL M 25 Contactor DIL M 32 MSC-D-16-M17	contact module	BBA0-32	101452	4
					200	2	PKZM0+ Contactor DIL M 17 Contactor DIL M 25 Contactor DIL M 32	contact module	BBA0-32	101452	4
D_v10813				45	200	2	PKZM0+ Contactor DIL M 17 Contactor DIL M 25 Contactor DIL M 32 MSC-D-16-M17 to MSC-D-32-M32 PKZM0+ 2x Contactor DIL M 17-01 2x Contactor DIL M 25-01 2x Contactor DIL M 32-01 MSC-R-16-M17	contact module PKZM0-XM32 DE Electrical contact module PKZM0-XM32 DE Reverse wiring set	BBA0R-32		2
	32	690	AWG10	45			PKZM0+ Contactor DIL M 17 Contactor DIL M 25 Contactor DIL M 32 MSC-D-16-M17 to MSC-D-32-M32 PKZM0+ 2x Contactor DIL M 17-01 2x Contactor DIL M 25-01 2x Contactor DIL M 32-01	contact module PKZM0-XM32 DE Electrical contact module PKZM0-XM32 DE Reverse wiring	BBA0R-32		
	32	690	AWG10	90	200	3	PKZM0+ Contactor DIL M 17 Contactor DIL M 25 Contactor DIL M 32 MSC-D-16-M17 to MSC-D-32-M32 PKZM0+ 2x Contactor DIL M 17-01 2x Contactor DIL M 25-01 2x Contactor DIL M 32-01 MSC-R-16-M17 to MSC-R-32-M32	contact module PKZM0-XM32 DE Electrical contact module PKZM0-XM32 DE Reverse wiring set	BBA0R-32		

¹⁾ Can be used with all busbars in a 60 mm system. Thanks to the combi-base it is suitable for both 5 mm and 10 mm thickness of the bar as well as for double-T-profile bars. To be snapped onto the voltage-free busbar.

1.21

xStart Busbar Adaptor, 3-pole¹⁾

	Max. Rated Operational Current I _e (A)	Rated Operational Voltage U _e (V)	Wire Cross Section	Adapter Width (mm)	Adapter Length (mm)	Sup- port Rails	Utilisation	Notes	Type Designation	Article No.	Units per package
	Busbar A	dapter xSt	art 63 A								
wa_v11213	63	690	AWG8	72	260	2	PKZ2+ Contactor DIL M 7 Contactor DIL M 9 Contactor DIL M 1 Contactor DIL M 1 Contactor DIL M 2 Contactor DIL M 3 Contactor DIL M 3	7 5 2	BBA2L-63	101480	2
	63	690	AWG8	72	200	1	PKZ2	_	BBA2-63	101458	4
00581455_0	63	690	AWG8	72	200	2	PKZ2+ Contactor DILM7 - DILM15 DILM17 - DILM38 DILM40 - DILM 65 Switch drive SE1A-PKZ2 and S-PKZ2 in connection with clipsplate C-PKZ2		BBA2- 63/2TS	116900	2
wa_v11313	63	690	AWG8	55	260	2	PKZM4+ Contactor DIL M 17 Contactor DIL M 25 Contactor DIL M 32 Contactor DIL M 40 Contactor DIL M 50 Contactor DIL M 65	PKZM4+DILM4065		101459	4
	63	690	AWG8	55	200	1	PKZM4	_	BBA4-63	101457	4
	Busbar A	dapter xSt	art 80 <i>A</i>	\							
00581461_0	80	690	-	72	200	2	universal	With screw- type terminal technology up to AWG6, for example for 1-phase (not UL/ CSA compatible without an addi- tional component	BBA2- 80/2TS-S	116901	4

¹⁾ Can be used with all busbars in a 60 mm system. Thanks to the combi-base it is suitable for both 5 mm and 10 mm thickness of the bar as well as for double-T-profile bars. To be snapped onto the voltage-free busbar.

xStart Busbar Adaptor, 3-pole1)

	Operational Op Current Vo	erational Itage	Wire Cross Section	Adapter Width	Adapter Length	Sup- port Rails	Utilisation	Notes	Type Designation	Article No.	Units pe package
		(V)	et IIni	(mm)	(mm)						
	Busbar Adaj	jter x5ta	irt, Uni		туре						
_v11013			_	45	200	2	Support rail adjustable on the 1.25 mm grid	Without electri- cal contacting, auxiliary to BBA for the setup of rever- sing starters, for example	BBAO/2TS-L	101482	4
III M											
v411413			-	54	260	2	Support rail adjustable on the 1.25 mm grid		BBA4/2TS-L	101483	4
	Side Module										
vt11513			_	9	200	-	-	Can be placed on both sides of BBA, to increase the add-on width	BBA-XSM	101484	10
	Notes		Width	n (mm)			Type Designation			Article No.	Units pe package
	Accessories	- Suppo	rt rail/	Conne	cting c	able					
+00010					_						
Vt30813	Support rail										
VI30813	Support rail Used for for BB	A	45				PKZM0-XMR			239364	10
VISU813	Support rail Used for for BB adapter	A	45 54				PKZM0-XMR PKZM0-XMR54			239364 113911	10 10
vacuois	Used for for BB	A									
	Used for for BB adapter		54				PKZM0-XMR54			113911	10
	Used for for BB adapter Connecting cab	ole	54				PKZM0-XMR54 PKZM0-XMR72			113911 113912	10
	Used for for BB adapter	ole vith	54 72				PKZM0-XMR54			113911	10
	Used for for BB adapter Connecting cab Used for BBA w screw-type or s	ole vith	54 72	Cros (mm	ss-section		PKZM0-XMR54 PKZM0-XMR72 BBA-XLT-6-130			113911 113912 116902	10 10 30 30 Units pe
	Connecting cab Used for BBA w screw-type or s terminals	vith spring-type	54 72	(mm	2)	devic	PKZM0-XMR54 PKZM0-XMR72 BBA-XLT-6-130 BBA-XLT-16-142 Type Designation			113911 113912 116902 116903	10 10 30 30 Units pe
	Connecting cab Used for BBA w screw-type or s terminals Width (mm)	ole vith spring-type MU	54 72 ter for	(mm	2)	devic	PKZM0-XMR54 PKZM0-XMR72 BBA-XLT-6-130 BBA-XLT-16-142 Type Designation			113911 113912 116902 116903	10 10 30 30 Units pe
63486_0	Used for for BB adapter Connecting cab Used for BBA w screw-type or s terminals Width (mm) Bushar Doul Cross-section	with spring-type MU ble Adap 6 mm ² - I _e =	54 72 ter for	OIN m	2)	devic	PKZM0-XMR54 PKZM0-XMR72 BBA-XLT-6-130 BBA-XLT-16-142 Type Designation			113911 113912 116902 116903 Article No.	30 30 Units per package
63486_0	Used for for BB adapter Connecting cab Used for BBA w screw-type or s terminals Width (mm) Busbar Doul Cross-section	with spring-type MU ble Adap 6 mm ² - I _e =	54 72 ter for	OIN m	2)	devic	PKZM0-XMR54 PKZM0-XMR72 BBA-XLT-6-130 BBA-XLT-16-142 Type Designation CSSS-60-ADD/6-45			113911 113912 116902 116903 Article No.	30 30 Units per package
v30813	Used for for BB adapter Connecting cab Used for BBA w screw-type or s terminals Width (mm) Bushar Doul Cross-section	with spring-type MU ble Adap 6 mm ² - I _e =	54 72 ter for	OIN m	2)	devic	PKZM0-XMR54 PKZM0-XMR72 BBA-XLT-6-130 BBA-XLT-16-142 Type Designation			113911 113912 116902 116903 Article No.	30 30 Units per package

¹⁾ Can be used with all busbars in a 60 mm system. Thanks to the combi-base it is suitable for both 5 mm and 10 mm thickness of the bar as well as for double-T-profile bars. To be snapped onto the voltage-free busbar.

 $xStart\ Busbar\ Adaptor,\ 3\text{-pole}^{1)},\ MSC\text{-}D.../BBA$

			Motorstarter Control voltage 230 V 50 Hz			Motorstarter Control voltage 24 V DC		
Motor data	*)							
Rated Operational Power AC3, 380 V, 400 V, 415 V	Rated Oper- ational Current 400 V	Components	Type Designation	Article No.	Units per package	Type Designation	Article No.	Units per package
P (kW)	I _e (A)							

087651_0



Example illustration

xStar	t Busba	r Adaptor, 3-	pole ¹⁾ , MSC-D	./BBA				
0.06	0.21	PKZM0-0,25 +DILM7-10 +PKZM0-XDM12 +BBA0-25	MSC-D-0,25- M7(230V50Hz)/BBA	102737	1	MSC-D-0,25- M7(24VDC)/BBA	102964	1
0.09	0.31	PKZM0-0,4 +DILM7-10 +PKZM0-XDM12 +BBA0-25	MSC-D-0,4- M7(230V50Hz)/BBA	102738	1	MSC-D-0,4- M7(24VDC)/BBA	102965	1
0.12 0.18	0.41 0.6	PKZM0-0,63 +DILM7-10 +PKZM0-XDM12 +BBA0-25	MSC-D-0,63- M7(230V50Hz)/BBA	102739	1	MSC-D-0,63- M7(24VDC)/BBA	102966	1
0.25	0.8	PKZM0-1 +DILM7-10 +PKZM0-XDM12 +BBA0-25	MSC-D-1- M7(230V50Hz)/BBA	102950	1	MSC-D-1- M7(24VDC)/BBA	102967	1
0.37 0.55	1.1 1.5	PKZM0-1,6 +DILM7-10 +PKZM0-XDM12 +BBA0-25	MSC-D-1,6- M7(230V50Hz)/BBA	102951	1	MSC-D-1,6- M7(24VDC)/BBA	102968	1
0.75	1.9	PKZM0-2,5 +DILM7-10 +PKZM0-XDM12 +BBA0-25	MSC-D-2,5- M7(230V50Hz)/BBA	102952	1	MSC-D-2,5- M7(24VDC)/BBA	102969	1
1.1 1.5	2.6 3.6	PKZM0-4 +DILM7-10 +PKZM0-XDM12 +BBA0-25	MSC-D-4- M7(230V50Hz)/BBA	102953	1	MSC-D-4- M7(24VDC)/BBA	102970	1
2.2	5	PKZM0-6,3 +DILM7-10 +PKZM0-XDM12 +BBA0-25	MSC-D-6,3- M7(230V50Hz)/BBA	102954	1	MSC-D-6,3- M7(24VDC)/BBA	102971	1
3	6.6	PKZM0-10 +DILM7-10 +PKZM0-XDM12 +BBA0-25	MSC-D-10- M7(230V50Hz)/BBA	102955	1	MSC-D-10- M7(24VDC)/BBA	102972	1
4	8.5	PKZM0-10 +DILM9-10 +PKZM0-XDM12 +BBA0-25	MSC-D-10- M9(230V50Hz)/BBA	102956	1	MSC-D-10- M9(24VDC)/BBA	102973	1
5.5	11.3	PKZM0-12 +DILM12-10 +PKZM0-XDM12 +BBA0-25	MSC-D-12- M12(230V50Hz)/BBA	102957	1	MSC-D-12- M12(24VDC)/BBA	102974	1
7.5	15.2	PKZM0-16 +DILM17-10 +PKZM0-XM32 +BBA0-32	MSC-D-16- M17(230V50Hz)/BBA	102961	1	MSC-D-16- M17(24VDC)/BBA	102978	1
11	21.7	PKZM0-25 +DILM25-10 +PKZM0-XM32 +BBA0-32	MSC-D-25- M25(230V50Hz)/BBA	102962	1	MSC-D-25- M25(24VDC)/BBA	102979	1
15	29.3	PKZM0-32 +DILM32-10 +PKZM0-XM32 +BBA0-32	MSC-D-32- M32(230V50Hz)/BBA	102963	1	MSC-D-32- M32(24VDC)/BBA	102980	1

^{*)} Technical details see Eaton main catalogue Industrial Switch Gear

¹⁾ Can be used with all busbars in a 60 mm system. Thanks to the combi-base it is suitable for both 5 mm and 10 mm thickness of the bar as well as for double-T-profile bars. To be snapped onto the voltage-free busbar.

xStart Busbar Adaptor, 3-pole¹⁾, MSC-R.../BBA

			Motorstarter Control voltage 230 V 50 Hz			Motorstarter Control voltage 24 V DC		
Motor data	*)							
Rated	Rated	Components	Туре	Article No.	Units per	Type	Article No.	Units per
Operational	Oper-		Designation		package	Designation		package
Power	ational							
AC3, 380 V,	Current							
400 V, 415 V	400 V							
P (kW)	I _e (A)							



Example illustration

			pole ¹⁾ , MSC-R/		4	M00 D C 27	400007	
0.06	0.21	PKZM0-0,25 +2xDILM7-01 +PKZM0-XMR12 +BBA0R-25	MSC-R-0,25- M7(230V50Hz)/BBA	102981	1	MSC-R-0,25- M7(24VDC)/BBA	102997	1
0.09	0.31	PKZM0-0,4 +2xDILM7-01 +PKZM0-XMR12 +BBA0R-25	MSC-R-0,4- M7(230V50Hz)/BBA	102982	1	MSC-R-0,4- M7(24VDC)/BBA	102998	1
0.12 0.18	0.41 0.6	PKZM0-0,63 +2xDILM7-01 +PKZM0-XMR12 +BBA0R-25	MSC-R-0,63- M7(230V50Hz)/BBA	102983	1	MSC-R-0,63- M7(24VDC)/BBA	102999	1
0.25	0.8	PKZM0-1 +2xDILM7-01 +PKZM0-XMR12 +BBA0R-25	MSC-R-1- M7(230V50Hz)/BBA	102984	1	MSC-R-1- M7(24VDC)/BBA	103000	1
0.37 0.55	1.1 1.5	PKZM0-1,6 +2xDILM7-01 +PKZM0-XMR12 +BBA0R-25	MSC-R-1,6- M7(230V50Hz)/BBA	102985	1	MSC-R-1,6- M7(24VDC)/BBA	103001	1
0.75	1.9	PKZM0-2,5 +2xDILM7-01 +PKZM0-XMR12 +BBA0R-25	MSC-R-2,5- M7(230V50Hz)/BBA	102986	1	MSC-R-2,5- M7(24VDC)/BBA	103002	1
I.1 I.5	2.6 3.6	PKZM0-4 +2xDILM7-01 +PKZM0-XMR12 +BBA0R-25	MSC-R-4- M7(230V50Hz)/BBA	102987	1	MSC-R-4- M7(24VDC)/BBA	103003	1
2.2	5	PKZM0-6,3 +2xDILM7-01 +PKZM0-XMR12 +BBA0R-25	MSC-R-6,3- M7(230V50Hz)/BBA	102988	1	MSC-R-6,3- M7(24VDC)/BBA	103004	1
3	6.6	PKZM0-10 +2xDILM7-01 +PKZM0-XMR12 +BBA0R-25	MSC-R-10- M7(230V50Hz)/BBA	102989	1	MSC-R-10- M7(24VDC)/BBA	103005	1
4	8.5	PKZM0-10 +2xDILM9-01 +PKZM0-XMR12 +BBA0R-25	MSC-R-10- M9(230V50Hz)/BBA	102990	1	MSC-R-10- M9(24VDC)/BBA	103006	1
5.5	11.3	PKZM0-12 +2xDILM12-01 +PKZM0-XMR12 +BBA0R-25	MSC-R-12- M12(230V50Hz)/BBA	102991	1	MSC-R-12- M12(24VDC)/BBA	103007	1
7.5	15.2	PKZM0-16 +2xDILM17-01 +PKZM0-XMR32 +DILM32-XRL	MSC-R-16- M17(230V50Hz)/BBA	102994	1	MSC-R-16- M17(24VDC)/BBA	103010	1
11	21.7	PKZM0-25 +2xDILM25-01 +PKZM0-XMR32 +DILM32-XRL	MSC-R-25- M25(230V50Hz)/BBA	102995	1	MSC-R-25- M25(24VDC)/BBA	103011	1
15	29.3	PKZM0-32 +2xDILM32-01 +PKZM0-XMR32 +DILM32-XRL	MSC-R-32- M32(230V50Hz)/BBA	102996	1	MSC-R-32- M32(24VDC)/BBA	103012	1

^{*)} Technical details see Eaton main catalogue Industrial Switch Gear

¹⁾ Can be used with all busbars in a 60 mm system. Thanks to the combi-base it is suitable for both 5 mm and 10 mm thickness of the bar as well as for double-T-profile bars. To be snapped onto the voltage-free busbar.

Width Notes

1.25

Units per

package

Article No.

Slide Fuse Equipment, 3-pole

Туре

Designation

	Slide	Fuse Equipr	nent, 3	3-pole					
		Slide Fuse-I		•					
	• Delive	red empty, witho	ut screw	caps					
16, sg03716, sg03616	63	400	E18,	12 x 5/10 20 x 5/10	27	Cartridge-ring adapter insert	D02-S0/63/3-R-27 ¹⁾	114315	10
0 0				25 x 5/10 30 x 5/10	36	Cartridge-ring adapter insert	Z-D02/R/3-36 ²⁾	100663	10
6 6		Double-T 54			54	Cartridge-ring adapter insert	Z-D02/R/3-54 ²⁾	100664	10
01112	25	500	E27, DII	12 x 5/10 20 x 5/10	45	Gauge ring	DII-SO/25/3-R ¹⁾	107965	10
				25 x 5/10 30 x 5/10 Double-T		Screw-in gauge ring	DII-SO/25/3-R-PS ¹	110394	10
01212	63	690	E33, DIII	12 x 5/10 20 x 5/10 25 x 5/10	45	Gauge ring Screw-in gauge ring	DIII-SO/63/3-R ¹⁾ DIII-SO/63/3-R-PS ¹⁾	107966	10
	D-Type	Slide Fuse-l	Base, c	omnact_tvr					
				onipact-typ	е				
			ction cov	er with front a		plate and marking label			
		nock hazard prote	ction cov	er with front a		plate and marking label Cartridge-ring adapter insert, snap-on mechanism mechanism when sliding it onto the busbar.	FCFBD02BBC60-3-36 ¹⁾	139532	6
	• Delive 63	nock hazard prote red empty, withou 400	E18, D02	rer with front a caps 12 x 5/10	36	Cartridge-ring adapter insert, snap-on mechanism mechanism when sliding it			
	• Delive 63 Designation	nock hazard prote red empty, withou 400	ction cov ut screw E18,	rer with front a caps 12 x 5/10	nd bottom	Cartridge-ring adapter insert, snap-on mechanism mechanism when sliding it	FCFBD02BBC60-3-36 ¹⁾ Type Designation	139532 Article No.	6 Units per package
	• Delive 63 Designation Covers	nock hazard prote red empty, withou 400	ction cov ut screw E18, D02	rer with front a caps 12 x 5/10 on Width	36 Notes	Cartridge-ring adapter insert, snap-on mechanism mechanism when sliding it onto the busbar.	Type Designation	Article No.	Units per package
11	• Delive 63 Designation Covers	nock hazard prote red empty, withou 400	ction cov ut screw E18, D02	rer with front a caps 12 x 5/10	36 Notes	Cartridge-ring adapter insert, snap-on mechanism mechanism when sliding it	Туре		Units per

Max. Rated

Operational

Rated

Voltage

Size

Utilisation

 $^{^{\}mbox{\scriptsize 1)}}$ Incl. shock hazard protection cover with front and bottom plate

 $^{^{\}rm 2)}$ lncl. shock hazard protection cover without front and bottom plate

Slide Fuse Equipment, 3-pole

	Max. Rated Operational Current I _e (A)	Rated Voltage U _e (V AC)	Size	Width	Utilisation	Notes	Type Designation	Article No.	Units per package
	Screw Ca	ps							
	63	400	E18, D02	_	D02-S0	_	Z-D02/SK	100651	20/500
	25	500	E27, D II	-	DII-SO	_	Z-DII/SK	112148	50/600
	63	500	E33, D III	-	DIII-SO	_	Z-DIII/SK	112149	30/360
	63	690	E33, D III	-	DIII-SO	_	Z-DIII/SK-690	118904	3
	Adapter S	pring							
	 To accom 	modate D01	fuse-links in Z	-D02/SK	screw caps				
wa_sg02612	16	-	D02-D01	_	_	_	Z-D02/SIKA-HF	263149	50/3000
O TO THE REAL PROPERTY.									



- Incl. shock hazard protection cover with front and bottom plate
- Delivered empty, without screw caps

SG45912			
	•		
4-			

63	400	E18, D02	20 x 5/10 30 x 5/10 Double-T	36	Cartridge-ring adapter insert	D02-S/63/3-RS	284649	10	



Screw (Caps						
63	400	E18, D02 –	D02-S0	_	Z-D02/SK	100651	20/500





1.27

Slide Fuse Equipment, 3-pole

Max. Rated Operational	Rated Voltage	Size	Width	Utilisation	Notes	Type Article No. Designation	Units per package
Current I _e (A)	U _e (V AC)						

Switch-Disconnector-Fuse D02 (+D01) + C

- Visiual tripping indicator is flashing
- Delivered empty, without cartridge-ring adapter inserts and fuse-links
- Delivered with adapter springs for fuse-links D01 or cylindrical fuse-links 10x38
- · Contact position indicator
- Plug-in technique without screw caps
- · All-pole and hand independent switching of load
- Version D02-LTS/63/3-R-HK with incorporated auxililiary switch
- Lead-seal- and lockable

SG82311		
•		
•		

3P							
63	400	E18, 27 D02	12 x 5/10 15 x 5/10	Cartridge-ring adapter insert without auxiliary	D02-LTS/63/3-R	114316	3
32	400	C 10x38	20 x 5/10	switch			
			25 x 5/10 30 x 5/10 Double-T	Cartridge-ring adapter insert with auxiliary switch	D02-LTS/63/3-R-HK	114318	3



3P+N						
63	400	E18, 27 D02	12 x 5/10 15 x 5/10	Cartridge-ring adapter insert without auxiliary	D02-LTS/63/3N-R 114317	3
32	400	C 10x38	20 x 5/10	switch		
			25 x 5/10 30 x 5/10 Double-T	Cartridge-ring adapter insert with auxiliary switch	D02-LTS/63/3N-R-HK114319	3

Accessories	for	D 02-	STI	/63
MCCCSSUIICS	IUI	DUZ-	LI O	/ UJ

D0	Fuse-links Z-D0./SE Cartridge-ring adapter inserts D01: Z-D02-D01/PE D02: Z-D02/PE
	Adapter spring Z-D02-LTS-HF (scope of delivery)
— C	Fuse-links Z-C10/SE Adapter spring Z-D02-LTS-HF (scope of delivery)
	See Fuse Material Accessories

Adapter Spring

• To accommodate D01 fuse-links or cylindrical fuse-links 10x38 in the Switch-disconnector-fuse D02-LTS/63...



16	_	D02-D01	_	-	_	Z-D02-LTS-HF	114323	12/288
32		C 10x38						

Technical Data

Current Load Busbars, according to DIN EN 13601

For busbar applications that have not been type-tested, UL508A allows an ampacity of 1000A/inch² (1.55A/mm²) if no tests have been carried out. This value may be higher if the product or the application has been tested accordingly. Eaton has conducted extensive tests for the user's maximum benefit in using the SASY 60i busbar system. The advantage of such tests is that one can use the SASY60i busbar system with higher rated currents than the default value allows. A busbar of size 30x10 mm for example can be charged with 630A instead of 465A only.

Higher current carrying capacities to DIN 43671 were obtained under operating conditions.

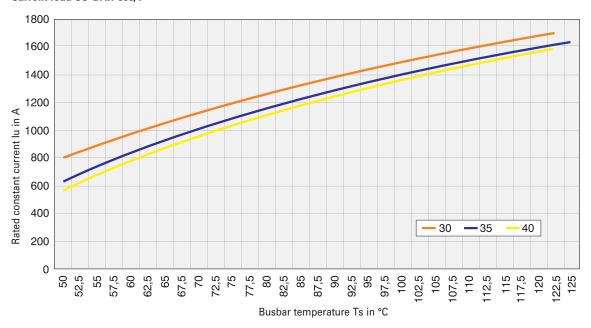
Busbar temperature is normally positively influenced by mounting components on the busbar and by air circulation within the installation.

Depending on the respective ambient temperature, you can calculate the correction factor k2 according to DIN 43 671 for flat busbars. If ambient conditions change, a correction factor needs to be taken into account.

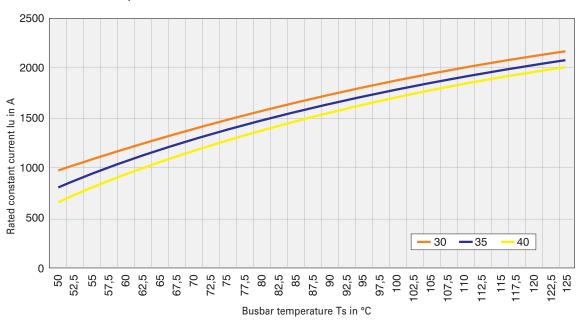
On the other hand, increased loads may occur if the components feature a correspondingly high temperature resistance.

A 30 x 10 tin-plated busbar can under normal conditions be loaded with 630 A. With a load of 800A, for instance, a k2 correction factor of 1.3 is necessary. It follows from the diagram that with this factor and 35°C air temperature, the busbar heats up to approx. 85°C.

Current load CU-BAR-500/T



Current load CU-BAR-720/T

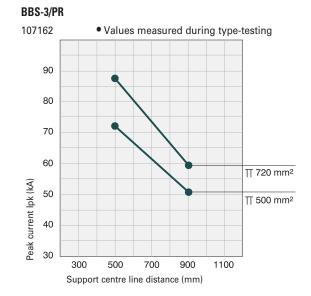


Short-circuit strength diagrams according to IEC/EN 61439-1 for 60 mm SASY 60i Busbar Systems

BBS-3/FL 107066 • Values measured during type-testing 70 60 30 x 10 50 30 x 5 12, 20x 10 12, 20x 5

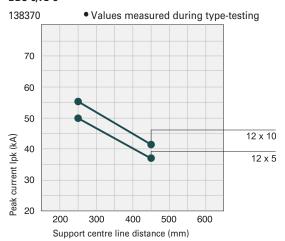
300

Support centre line distance (mm)



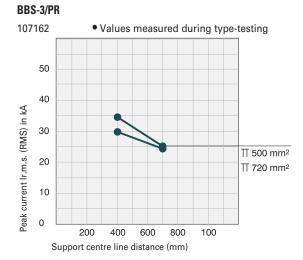
BBS-3/FL-C

BBS-3/FL-NA



Short-circuit strength diagrams according to UL 845 for 60 mm SASY 60i Busbar Systems

107067 • Values measured during type-testing 25 20 30 x 5, 10 12, 20x 5 12, 20x 10 200 300 400 500 600 Support centre line distance (mm)



Technical Data

Technical Data Bar Support				
		BBS/FL(-NA)	BBS/PR	BBS-3/FL-C
General Information				
Standards and regulations		type-tested according	to VDE 0660 Part 500, IE0	C/EN 61439-1
Fitting position		vertical, horizontal		
Material				
Material		Thermoplasticic, silico	one-free, chlorine-free	
Halogen-free		yes	yes	yes
Flammability		Self-extinguishing acc	ording to UL 94	
Colour		RAL 7035	RAL 7035	RAL 7035
Track resistance		CTI 200	CTI 200	CTI 200
Uninterrupted duty temperature		120	120	120
Current Paths	,			
Rated insulation voltage	Ui	3000 V	3000 V	3000 V
Rated operational voltage	U _e	690 V	690 V	690 V
Rated frequency	f	50/60 Hz	50/60 Hz	50/60 Hz
Centre line distance of busbars		60 mm	60 mm	60 mm
Rated uninterrupted current	l _{ii}	In case of temperature var		A correction factor to be taken into accoun
with busbar 12 x 5 mm	u	218 A	-	200 A
with busbar 15 x 5 mm		273 A	-	-
with busbar 20 x 5 mm		349 A	-	-
with busbar 25 x 5 mm		436 A	-	-
with busbar 30 x 5 mm		491 A	-	-
with busbar 12 x 10 mm		392 A	-	360 A
with busbar 20 x 10 mm		567 A	-	-
with busbar 30 x 10 mm		687 A	-	-
with 500 mm ²		-	1003 A	-
with 720 mm ²		_	1281 A	-
Ambient temperature		35 °C	35 °C	35 °C
Temperature of busbar		70 °C	70 °C	70 °C
Rated peak withstand current	I _{nk}	70 0	70 0	
with busbar 12 x 5 mm	-рк	50 kA	-	50 kA
with busbar 15 x 5 mm		50 kA	-	-
with busbar 20 x 5 mm		50 kA	-	_
with busbar 25 x 5 mm		50 kA	-	
with busbar 30 x 5 mm		64 kA	-	
with busbar 12 x 10 mm		56 kA		55 kA
with busbar 20 x 10 mm		56 kA		
with busbar 30 x 10 mm		73 kA	-	-
with 500 mm ²		75 KA	72 kA	
with 720 mm ²			87 kA	
Short-circuit time		20 ms	20 ms	20 ms
Support centre line distance		250 mm	500 mm	250 mm
Support centre line distance		ZJU IIIIII	וווווו טטט	200 111111

		CU	CU-BART	CU-BAR-1140/T	
General Information					
Standards and regulations		EN 13061, UL 508			
Current Paths					
Rated uninterrupted current T _u = 35 °C and T _s = 65 °C	I _u	In case of temperature variances, DIN 43671 requires a kA correction factor to be taken into account			
with busbar 12 x 5 mm		200 A	-	-	
with busbar 20 x 5 mm		349 A	-	-	
with busbar 30 x 5 mm		491 A	-	-	
with busbar 12 x 10 mm		392 A	-	-	
with busbar 20 x 10 mm		567 A	-	-	
with busbar 30 x 10 mm		687 A	-	-	
with 500 mm ²		-	1003 A	-	
with 720 mm ²		-	1281 A	-	
1140 mm ²		-	-	2500 A	

Conductor connections The ratios between conductor cross-sections in mm² and AWG/MCM-sizes are listed below: 2.5 mm² 14 AWG 4 mm² 12 AWG 6 mm² 10 AWG 10 mm² 8 AWG 16 mm² 6 AWG 25 mm² 4 AWG 35 mm² 2 AWG 50 mm² 0 AWG 70 mm² 2/0 AWG 95 mm² 3/0 AWG 120 mm² 250 MCM 150 mm² 300 MCM 185 mm² 350 MCM 240 mm² 500 MCM 300 mm² 600 MCM

Busbar Support

60 mm system according to IEC

1-pole for busbars 12x5 - 30x10, double-T-bars

2-pole for busbars 12x5 - 30x10

3-pole for busbars 12x5 - 30x10 and 12/20/ 30 x 5/10

3-pole for double-T-bars

Tighten screws for fixing the cover and bottom of the support at a torque of 4 Nm min.

60 mm system according to UL

3-pole for busbars 12/20/ 30 x 5/10

3-pole for double-T-bars

Tighten screws for fixing the cover and bottom of the support at a torque of 4 Nm min.

Silicone-free, chlorine-free		
Temperature resistant up to	120 °C	
Self-extinguishing	according to UL 94	
Track resistance	CTI 200	

Busbars according to DIN EN 13601

Tin-plated Cu-bars significantly reduce the work necessary for preparing the contact points.

Cu-busbars are r.m.sectively protected against aggressive environments.

Dimension		Cross-section
Double-T		500 mm ²
Triple-T		720 mm ²
Permissible tolerances		
Radius	R	0.3 0.7
Width		+ 0.1 / - 0.5
Thickness		+ 0.1 / - 0.1
Center line distance		
60 mm system		± 0.5 mm
Variance on the contacting level		0.4 mm

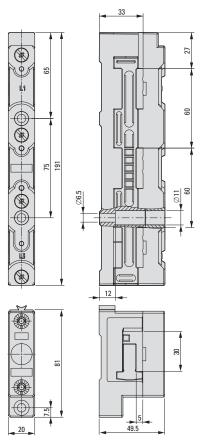
Ampacity with copper bars

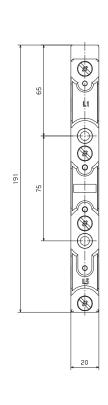
Cross-sections of bars	Surface	Ampacity according to IEC	Ampacity according to UL/CSA
		35 °C ambient temp., 65 °C bar temp.	
mm	mm ²	А	Α
12 x 5	60	200	200
20 x 5	100	320	320
30 x 5	150	450	450
12 x 10	120	360 360	
20 x 10	200	520 520	
30 x 10	300	630	630
Double-T	500	950	950
Triple-T	720	1200	1200

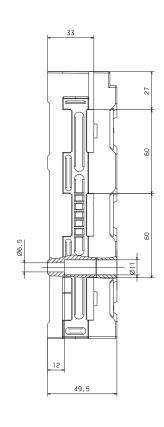
Dimensions

BBS-4/FL

BBS-3/FL

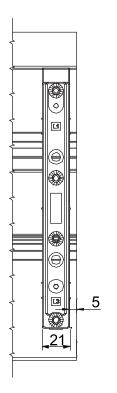


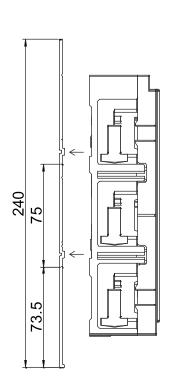


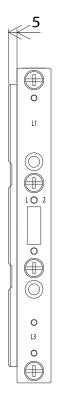


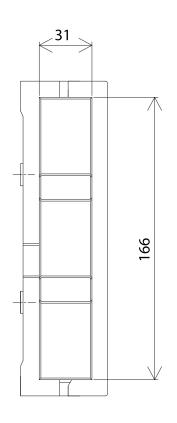
BBS-3/FL-NA

ES-BBS-3/FL

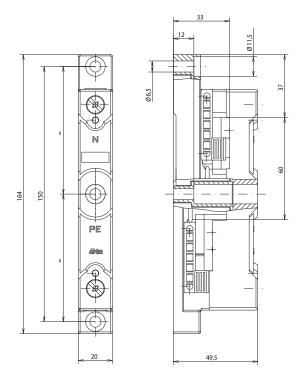




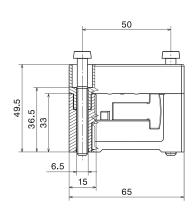




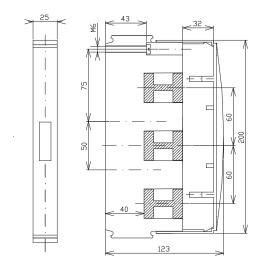
BBS-2/FL



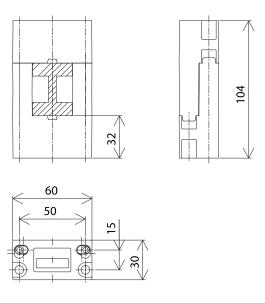
BBS-1/FL



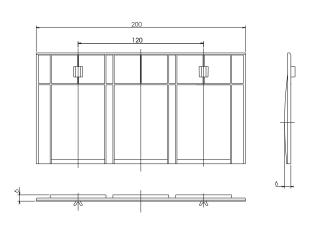
BBS-3/PR



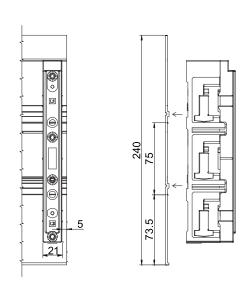
BBS-1/PR

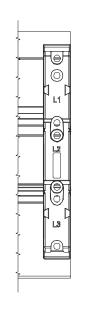


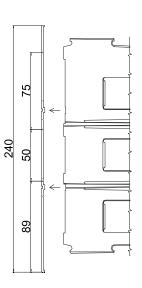
ES-BBS-3/PR



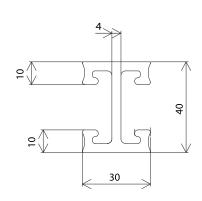
BBC-BT-NA

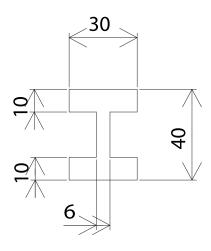






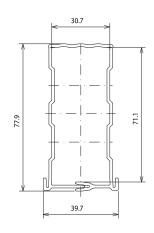
CU-BAR-500/T CU-BAR-720/T

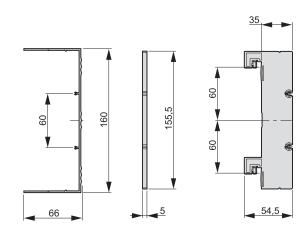




BBC-CU-BAR/PR

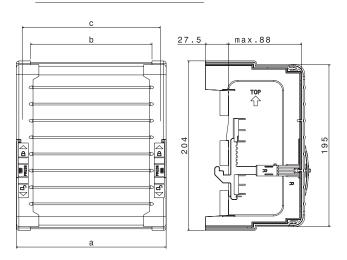
BBC-RCOV1, BBC-MRCOV1



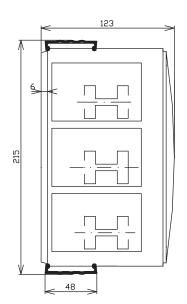


BBC-CS1, BBC-CS2

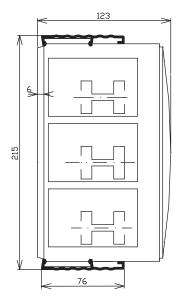
a (mm)	b (mm)	c (mm)
228	194	214



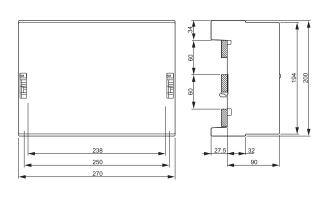
BBC-CS48/PR



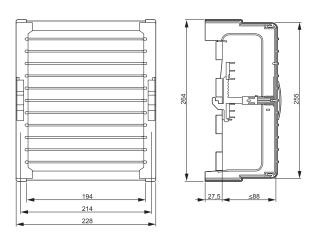
BBC-CS76/PR



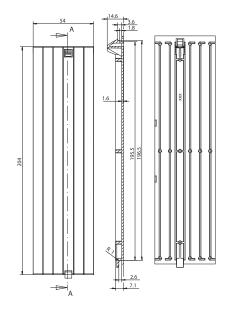
BBC-CS3



BBC-CS4



AM-195/54



Connecting Terminal Pla	ites BBA-TP				
Incl. cover cap		BBA-TP			
16, 50, 120 mm ²					
3-pol., 690 V~					
Centre line distance of busbars	s 60 mm				
Busbars x 5 – 10, Double-T-	-Profiles				
Terminal plates					
Silicone-free, chlorine-fr	ree				
Temperature resistant up	p to	120 °C			
Self-extinguishing		according t	to UL 94		
Track resistance	Track resistance CTI 200				
Cover cap					
Silicone-free, chlorine-fr	ree				
Temperature resistant up	p to	120 °C			
Self-extinguishing		according t	to UL 94		
Suitable conductors ¹⁾	Current carrying capacity of	Termination space BxH	Busbars BxH	Тур	
	contact point*	mm	mm		
1.5−16 mm² Cu, ⊙, ॐ **	80 A	-	x 5 − 10	BBA-TP3/16	
			TT		
6–50 (70) mm ² Cu, \odot , \odot **,	300 A	10 x 15	x 5 – 10	BBA-TP3/50	
6 x 9x 0.8			TT		
35–120 mm² Cu, ⊙, ॐ **,	40 A	15 x 15	x 5 – 10	BBA-TP3/120	
6 / 10 x 16 x 0.8			TT		

Incl. cover cap						
Suitable conductors ¹⁾	Current carrying capacity of contact point*	Termination space BxH mm	Busbars BxH mm	Тур		
95–300 mm² Cu, Al***, ⊙, ⊙, ூ	560 A		20x5 - 30x10 TT	BBA-TP3/300		
3 x 20 x 1 to 10 x 32 x 1	800 A	32 x 25	20x5 - 30x10 TT	BBA-TP3/CUBAND		
(2x) 50 x 10	1600 A	55 x 28	20x5 - 30x10 TT	AKS1000		

Cu-Bar

^{*} Current carrying capacities specified reflect the thermal capacities of the contact points under favourable conditions (with a maximum of conductors that can be connected). They do not, however, invalidate the validity of conductor cross-sections and of current carrying capacities required by any national and international regulations.

^{**} A reduction of maximum conductor cross-sections might be necessary

^{***} Connections to aluminium conductors are not maintenance-free

Round conductor, single-wired

Round conductor, fine-wired with expertly pressed wire end ferrule

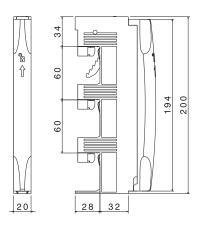
Round conductor, multi-wired

Sector conductor, single-wired

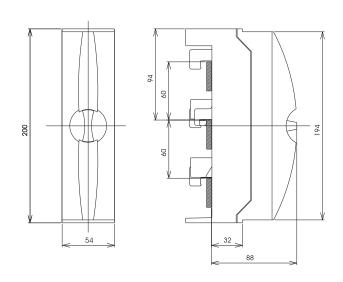
Sector conductor, multi-wired
Cu-Band

Dimensions

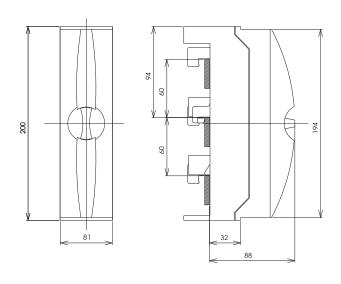
BBA-TP3/16



BBA-TP3/50

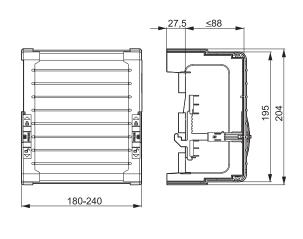


BBA-TP3/120



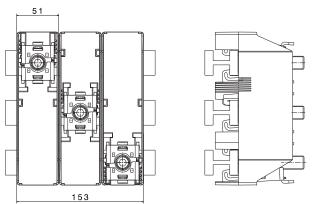
BBA-TP3/300

BBA-TP3/1000

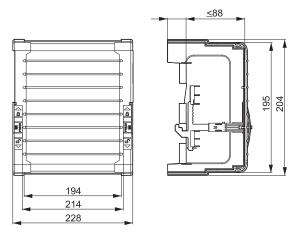


BBA-TP3/CU-BAND



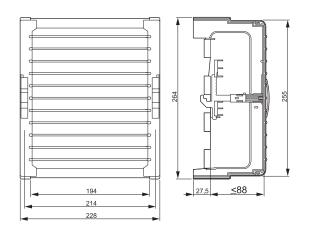


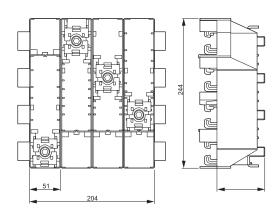
Note: BBA-TP3/1000 consists of 3x AKS1000 and 1x BBC-CS1.



BBA-TP4/300

BBA-TP4/CU-BAND





Technical Data

Brace Terminals AKS

For connecting round conductors of 95–300 mm² and multi-layer copper bars.

The gripper-type of termination technology allows to embrace both sides of the busbar and to connect the conductor without drilling.

Suitable conductors ¹⁾	Current carrying capacity of contact point*	Termination space BxH mm	Busbars BxH mm	Тур
95–185 mm² Cu, Al***, ⊙, ⊙, ⊙	500 A	_	20x5 - 30x10 TT	AKS185
95–300 mm² Cu, Al***, ⊙, ⊙, ⊙	600 A	_	20x5 - 30x10 TT	AKS300
3 x 20 x 1 to 10 x 32 x 1	800 A	32 x 25	20x5 - 30x10 TT	AKS-CU-BAND
(2x) 50 x 10	1600 A	55 x 28	20x5 - 30x10 TT	AKS1000

Profile Terminals for Double-T-Bars AKP

Current carrying capacity of contact point	Profile	Termination space B x H (without spacers)	Тур	
1600 A	TT	41 x 20 - 42	AKP800	
1600 A	TT	51 x 20 - 42	AKP1000	

Universal Conductor Terminals AKU

Used for connecting conductors featuring cross-sections of 1.5–120 mm² on busbars 5 or 10 mm thick. Integrated retaining springs, an open terminal space and captive terminal screws make the installation job easy.

Suitable conductors ¹⁾	Current carrying capacity of	Termination space BxH	Busbars BxH	Тур
	contact point*	mm	mm	
1.5–16 mm² Cu, ○, ⊙, ❖,	180 A	7.5 x 7.5	x 5	AKU16/5
③**, ■8 x 6 x 0.5			x 10	AKU16/10
4–35 mm² Cu, ○, ⊙, ❖,	270 A	10.5 x 11	x 5	AKU35/5
③**, ■ 3/6 x 9 x 0.8			x 10	AKU35/10
16–70 mm² Cu, ⊙, ⋄, ॐ, **,	400 A	14 x 14	x 5	AKU70/5
2x 3/6 x 9 x 0.8, 6 x 13 x 0.9	5		x 10	AKU70/10
16–120 mm² Cu, ⊙, ⊙, ॐ**,	440 A	17 x 15	x 5	AKU120/5
4/6/10 x 16 x 0.8			x 10	AKU120/10

Sector conductor, multi-wired



^{*} Current carrying capacities specified reflect the thermal capacities of the contact points under favourable conditions (with a maximum of conductors that can be connected). They do not, however, invalidate the validity of conductor cross-sections and of current carrying capacities required by any national and international regulations.

^{**} A reduction of maximum conductor cross-sections might be necessary

^{***} Connections to aluminium conductors are not maintenance-free

¹⁾ Round conductor, single-wired

Round conductor, fine-wired with expertly pressed wire end ferrule

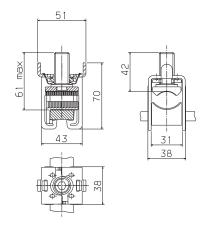
Round conductor, multi-wired

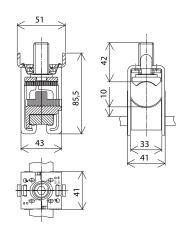
Sector conductor, single-wired

Dimensions

AKS185

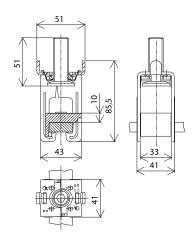
AKS300

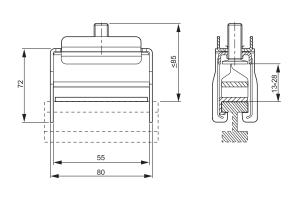




AKS-CU-BAND

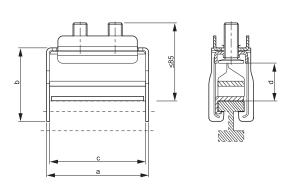
AKS1000





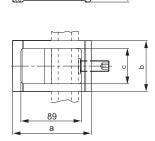
AKS1200, AKS2000

Туре	a (mm)	b (mm)	c (mm)	d (mm)
AKS1200	85	80	68	13-38
AKS2000	122	80	105	13-38



AKP800, AKP1000

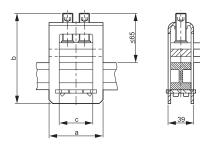
Туре	a (mm)	b (mm)	c (mm)
AKP800	118	72	41
AKP1000	103	94	64



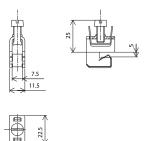
Dimensions

AKP750-AKP3600

Туре	a (mm)	b (mm)	c (mm)	d (mm)
AKP750	82	103	51	5-28
AKP900	94	103	64	5-28
AKP1200	94	118	64	20-42
AKP1600	112	118	81	20-42
AKP2000	132	118	101	20-42
AKP3600	132	154	101	23-45

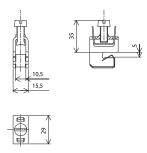


AKU16/5



AKU35/5

AKU70/5



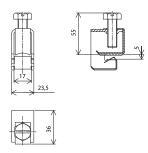


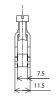


22

AKU120/5

AKU16/10

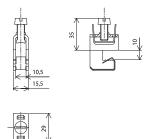


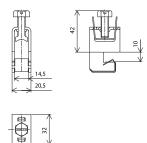




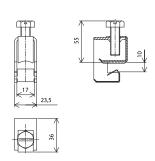


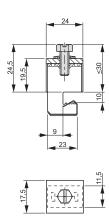
AKU35/10 AKU70/10



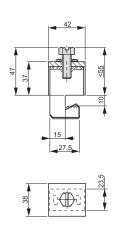


AKU120/10 AKUM8/10





AKUM10/10



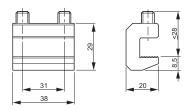
Technical Data / Dimensions

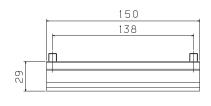
Busbar Connecting Terminals BBT-CU						
For drill-free connection of ide	ntical types of busbars					
Current carrying capacity of	Overall length	Permissible misalignment of bars	Spacing between systems	Тур		
contact point	mm	mm	mm			
630 A	150	1	100 - 110	BBT-CU12-20X5/10-150		
630 A	95	5	50 - 60	BBT-CU20-30X5/10-95		
630 A	150	5	100 - 110	BBT-CU20-30X5/10-150		
1600 A	50	2	9 -20	BBT-CU-BAR500/720-50		
1600 A	150	5	100 - 110	BBT-CU-BAR500/720-150		

Dimensions

BBT-CU12-20X5/10-38

BBT-CU12-20X5/10-150





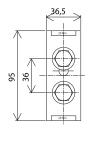


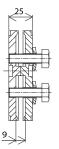
BBT-CU20-30X5/10-40

BBT-CU20-30X5/10-95



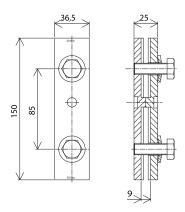


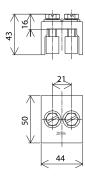




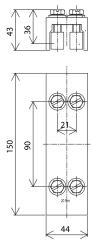
BBT-CU20-30X5/10-150

BBT-CU-BAR500/720-50





BBT-CU-BAR500/720-150



Technical Data

		NZM1-)	(AD160	NZM2-X	(AD250	NZM3-X	(AD630
Design		3-pole, 6	90 V~	3-pole, 6	90 V~	3-pole, 6	90 V~
Bar system		60 mm		60 mm		60 mm	
Bar contacting		combi-ba	ase	claw-typ	e terminal	claw-typ	e termina
onnection of the switchgear		top/bott	om	top or bo	ttom	top or bo	ttom
Short circuit current rating SCCR		32 kA at	480 V	35 kA at	480 V	65 kA at	480 V
				50 kA at	600 V	50 kA at	600 V
NZM1-XAD160							
Base body:							
Thermoplastic							
Temperature resistant up to 120 °C							
Self-extinguishing according to UL 94							
Track resistance CTI 200							
Halogen-free							
Derating:							
Ambient temperature	25	30	35	40	45	50	55
Permissible rated current	160	155	150	146	141	136	130
Derating to 160 A	1	0.97	0.94	0.91	0.88	0.85	0.81
NZM2-XAD250							
Base body:							
Thermoplastic							
Temperature resistant up to 120 °C							
Self-extinguishing according to UL 94							
Track resistance CTI 200							
Halogen-free							
NZM3-XAD630							
Base body:							
Thermoplastic							
Temperature resistant up to 120 °C							
Self-extinguishing according to UL 94							
Track resistance CTI 200							
Halogen-free							
Derating:							
Ambient temperature	20	30	40	50	60	65	70
Permissible rated current	630	605	580	554	529	517	504
Derating to 630 A	1	0.96	0.92	0.88	0.84	0.82	0.80

Notes:

Please observe the de-rating cor.m.sicients listed in the table above to determine the maximum ampacity allowed at different ambient temperatures!

Example

An NZM3...3-...630... device with an NZM3-XAD630 device adapter should be operated at an ambient temperature of 50 °C.

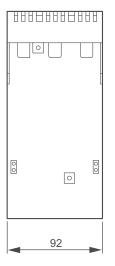
Question

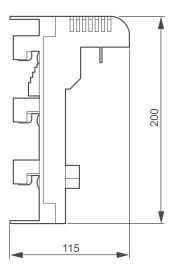
What is the maximum rated operating current le allowed $I_{\rm e}$? =>

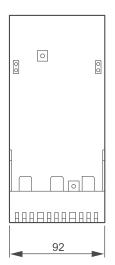
Solution

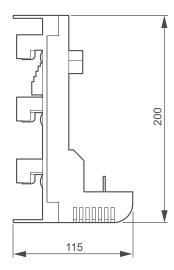
At an ambient temperature of 50 °C, the de-rating cor.m.sicient is 0.88. This means that $I_e = 630$ A x 0.88 = 544 A. At an ambient temperature of 50 °C, the device can therefore be operated at a maximum of $I_e = 544$ A.

NZM1-XAD160

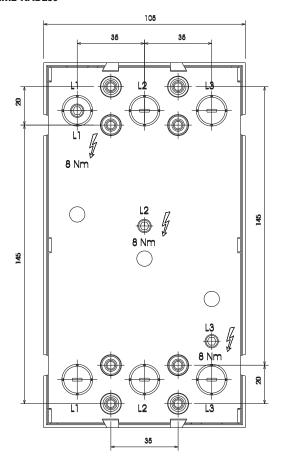


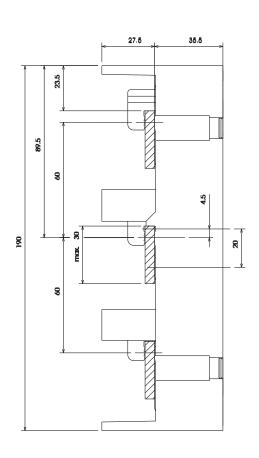




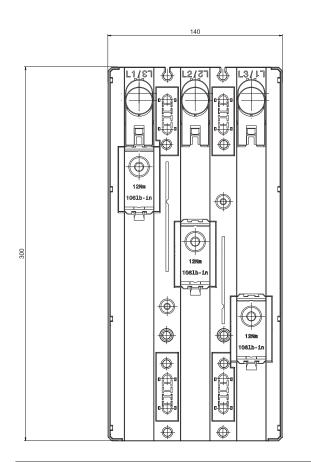


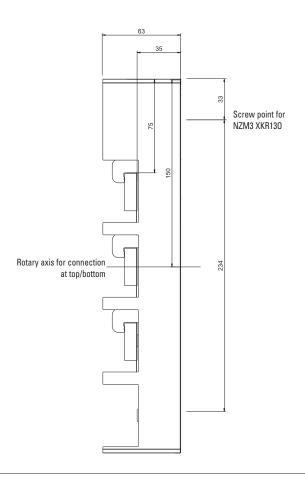
NZM2-XAD250



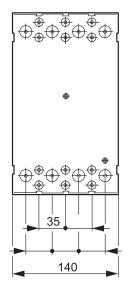


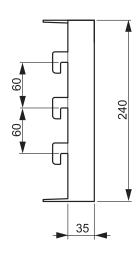
NZM3-XAD630



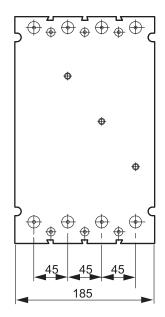


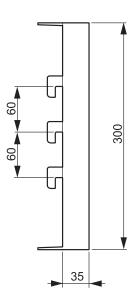
NZM2-4-XAD250





NZM3-4-XAD630



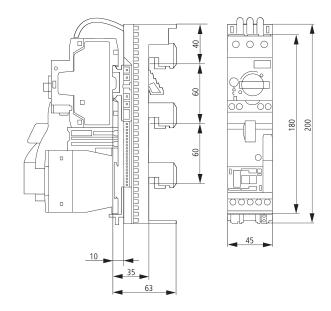


Technical Data

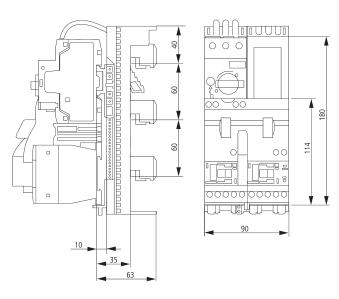
Busbar Adapter xStart BBA	
	ВВА
3-pole, 690 V~	
Can be used on all busbars in a 60 mm system.	
Thanks to the combi-base it is suitable for a thickness of both 5 and 10 mm.	
DIN EN 60715 support rail, plastic, can be adjusted on a 1.25 mm grid.	
Ultrasonically welded copper pipes	
Base body	
Silicone-free, chlorine-free	
Temperature resistant up to	120 °C
Self-extinguishing according to UL 94	according to UL 94
Track resistance	CTI 200
Support rail	
Silicone-free, chlorine-free	
Temperature resistant up to	100 °C
PVC conductor insulation	
Temperature resistant up to	105 °C
Overall length of the connecting cables	
BBA0-25, BBA0-32, BBA0R-25, BBA0R-32, BBA0-25/2TS, BBA0/2TS-L	93 mm
BBA0C-16, BBA0RC-16	125 mm
BBA4-63, BBA2-63, BBA4L-63, BBA2L-63	115 mm
Short circuit current rating SCCR	
PKZM0-0,16 to PKZM0-10	50 kA
PKZM0-12, -16	50 kA
PKZM0-20, -25, -32	18 kA
Direct and reverse motor starters PKZM0 + DILM1) or MSC + BBA up to	32 A on busbar adapters and busbar system SASY 60i

¹⁾ any type of connection between PKZM and DILM

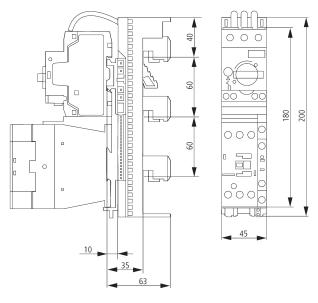
BBA0-25



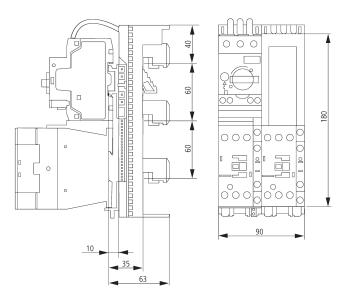
BBAOR-25



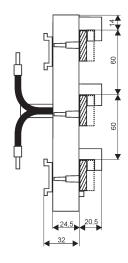
BBA0-32



BBAOR-32



Z-SS-60-ADD/6...



Technical Data

Technical Data D-Type Slide Fuse-Base

- Design according to IEC/EN 60269-1, VDE 0636 Part 301
 Vertical and horizontal mounting possible
- Delivered empty, without screw caps

		D02-S0/63/3-R-27 Z-D02/R/3	DII-S0/25/3-R(-PS)	DIII-S0/63/3-R(-PS)
Electrical				
Number of poles		3	3	3
Rated operational voltage	U _e	400 V AC	500 V AC	690 V AC
Rated frequency		40-60 Hz	40-60 Hz	40-60 Hz
Rated operational current	I _e	63 A	25 A	63 A
Conventional thermal current with fuse-links	I _{th}	63 A	25 A	63 A
Rated duty		uninterrupted duty	uninterrupted duty	uninterrupted duty
Rated conditional short-circuit current		50 kA _{r.m.s}	50 kA _{r.m.s}	50 kA _{r.m.s}
Overvoltage category		IV	III	III
Rated impulse withstand voltage	U_{imp}	6 kV	4 kV	4 kV
Power loss per current path		0.5 W	0.4 W	3.34 W
Power loss of base without fuse-links		1.5 W	1.2 W	10 W
Max. permissible power loss of fuse-links		5.5 W	4 W	7 W
Mechanical				
Device height		201 mm	200 mm	200 mm
Width		27 mm	45 mm	54 mm
Weight		150 g	140 g	150 g
Mounting onto busbars, without drilling or screwing		12x5/10	12x5/10	12x5/10
		15x5/10	-	-
		20x5/10	20x5/10	20x5/10
		25x5/10	25x5/10	25x5/10
		30x5/10	30x5/10	30x5/10
Degree of protection while operating		IP20	IP20	IP20
Terminals		lift terminals	lift terminals	lift terminals
Terminal capacity		1.5-35 mm ²	1.5-25 mm ²	1.5-25 mm ²
Tightening torque of terminal screws		3-4 Nm	2.6 Nm	2.6 Nm
Electrical thread type		E18	E27	E33
Ambient temperature range		-25 to +55 °C	-25 to +55 °C *)	-25 to +55 °C *)
*) (35 °C normal temperature, at 55 °C with reduced operating current)				
Pollution degree		3	3	3
Climatic resistance: moist heat		constant according to IE	EC 60068-2-78, cyclical accord	ding to IEC 60068-2-30

Technical Data Busbar-Slide Switch Disconnector with Fuses D02-S/63/3-RS

- Design according to IEC/EN 60947-3
- Vertical and horizontal mounting possible
- Delivered empty, without screw caps
- Current coding by means of cartridge-ring adapter insert
- Suitable for fuse-links

D01: 2, 4, 6, 10, 16 A in combination with cartridge-ring adapter inserts Z-D02-D01/PE-.. and adapter spring Z-D02/SIKA-HF D02: 20, 25, 35, 50, 63 A

Sealable

		D02-S/63/3-RS
Electrical		
Number of poles		3
Rated operational voltage	U _e	400 V AC
Rated frequency		40-60 Hz
Rated operational current	I _e	63 A
Conventional thermal current with fuse-links	I _{th}	63 A
Rated duty		uninterrupted duty
Rated conditional short-circuit current		50 kA _{r.m.s}
Utilization category		AC-23B
Overvoltage category		
Rated impulse withstand voltage	U_{imp}	8 kV
Power loss per current path	·	2 W with I _e
Power loss per current path with fuse-link		7.5 W with I _e
Max. permissible power loss of fuse-links		5.5 W
Mechanical		
Device height		212 mm
Width		36 mm
Weight		260 g
Mounting onto busbars, without drilling or screwing		20x5/10 mm
		30x5/10 mm
Degree of protection while operating		IP20
Terminals		lift terminals
Terminal capacity		1.5-25 mm ² Cu
Tightening torque of terminal screws		max. 2.6 Nm
Electrical thread type		E18
Ambient temperature range		-25 to +55 °C
Pollution degree		3
Climatic resistance: moist heat		constant according to IEC 60068-2-78, cyclical according to IEC 60068-2-30

Connection diagram



Technical Data

Technical Data Busbar-Slide Switch Disconnector with Fuses D02-LTS/63/3-R(-HK)

- Design according to IEC/EN 60947-3Vertical and horizontal mounting possible
- Supplied empty
- Current coding by means of cartridge-ring adapter insert
- Suitable for fuse-links

D01: 2, 4, 6, 10, 16 A in combination with cartridge-ring adapter inserts Z-D02-D01/PE-.. and adapter spring Z-D02-LTS-HF

D02: 20, 25, 35, 50, 63 A Cylindrical 10x38: 1 - 32 A

	- /				
•	Lead	-seal-	and	lockab	le

		D02-LTS/63/3-R(-HK)
Electrical		
Number of poles		3
Rated operational voltage	U _e	400 V AC
Rated frequency		40-60 Hz
Rated operational current	I _e	63 A
Conventional thermal current with fuse-links	I _{th}	63 A
Rated duty		uninterrupted duty
Rated conditional short-circuit current		50 kA _{r.m.s}
Utilization category		AC-22B
Overvoltage category		IV
Rated impulse withstand voltage	U_{imp}	6 kV
Power loss per current path		1.5 W with I _e
Power loss per current path with fuse-link		7 W with I _e
Max. permissible power loss of fuse-links		5.5 W
Mechanical		
Device height		226 mm
Width		27 mm
Weight		340 g
Mounting onto busbars, without drilling or screwing		12x5/10 mm
		15x5/10 mm
		20x5/10 mm
		25x5/10 mm
		30x5/10 mm
Degree of protection while operating		IP20
Degree of protection built-in		IP40
Terminals		lift terminals
Terminal capacity		1.5-35 mm ² Cu
Tightening torque of terminal screws		max. 4 Nm
Ambient temperature range		-25 to +55 °C
Pollution degree		3
Climatic resistance: moist heat		constant according to IEC 60068-2-78, cyclical according to IEC 60068-2-30
Auxiliary switch electrical		
1 00		5 A / 250 V AC
Max. thermal back-up fuse		2 A gL
		PLSM-B4/HS / CLS6-B4/HS
Connection		
Femal push-on connector		2.8 x 0.5 mm

Connection diagram

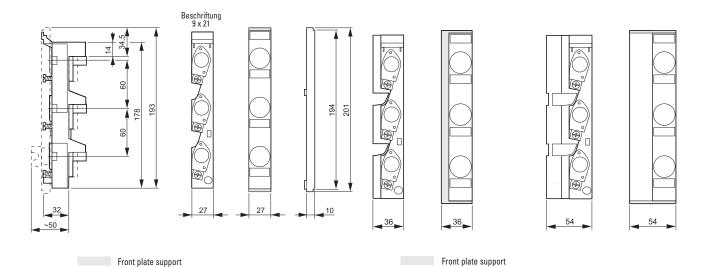
D02-LTS/63/3-R



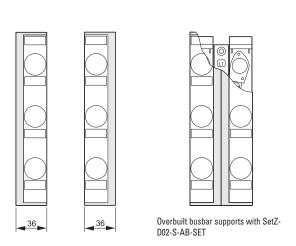


D02-S0/63/3-R-27

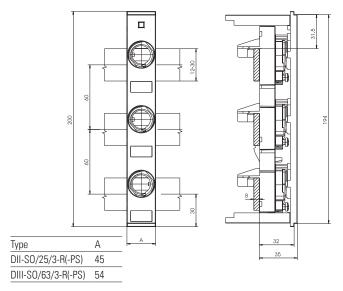
Z-D02/R/3-36, Z-D02/R/3-54



Z-D02-S-AB-SET



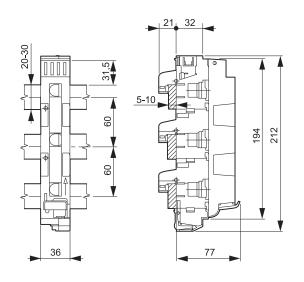
D...SO/.../3-R(-PS)

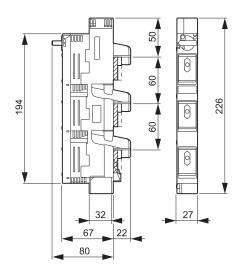


D02-S/63/3-RS

Front plate support

D02-LTS/63/3-R(-HK)





Fuse Switch Disconnectors XNH...

46161

+6/21E





vt64015

rt61715





Description

- For fuse links NH000 to NH3
- Rated operating current of 160, 250, 400 and 630 A
- Sizes 00, 1, 2 and 3
- Degree of protection IP2XC
- Frame widths of 106, 184, 210 and 250 mm
- For busbar system of 60 mm
- System size 195 and 300 mm
- Can be locked with a pad lock
- Current-theft protection

- Flex-System for cable connection at the top/ bottom
- Improved operator safety
- Flat connection for cable lug, box terminal, clamp-type terminal, prism terminal and double prism terminal
- Switch cover with safety parking position
- Fuse monitoring light with LED on the device
- Electronic fuse monitoring
- SmartWire-DT® option

1.57

Fuse Switch Disconnectors XNH...

Size I_e (A) Type of connection Type Article No. Units per Designation Type Article No. Units per package

vt64215



Fuse Switch Disconnectors XNH...

- Degree of protection IP2XC in operating mode
- According to IEC/EN 60947-3
- AC 690 V / DC 440 V
- Rated conditional short-circuit current 120 kA (500 V) and 100 kA (690 V)
- Reaction to fire according to UL 94, self-extinguishing
- Current paths of electrolytic copper, silver-plated
- For fixing on busbars of 60 mm (SASY 60i)
- Cable connection optionally at the top or bottom
- Fuse Control Light with optical signalling of triggered fuse-links
- Fuse Control FCE with electronic monitoring of fuse-links

Basic

3-pole for SASY 60i



•				
00	160	Flat connection M8 max. 95 mm ²	XNH00-S160	183033 1
		Box terminal 1.5 - 95 mm ²	XNH00-S160-BT1	183034 1
			XNH00-S160-BT2	183035 1
1	250	Flat connection M10 max. 150 mm ²	XNH1-S250	183051 1
		Box terminal 35 - 150 mm ²	XNH1-S250-BT	183052 1
2	400	Flat connection M10 max. 240 mm ²	XNH2-S400	183065 1
		Box terminal 95 - 300 mm ²	XNH2-S400-BT	183066 1
3	630	Flat connection M10 max. 300 mm ²	XNH3-S630	183077 1
		Box terminal 95 - 300 mm ²	XNH3-S630-BT	183078 1

Fuse Control Light

3-pole for SASY 60i



o-hoic	101 0701 0	101		
00	160	Flat connection M8 max. 95 mm ²	XNH00-FCL-S160	183036 1
		Box terminal 1.5 - 95 mm ²	XNH00-FCL-S160-BT1	183037 1
			XNH00-FCL-S160-BT2	183038 1
1	250	Flat connection M10 max. 150 mm ²	XNH1-FCL-S250	183053 1
		Box terminal 35 - 150 mm ²	XNH1-FCL-S250-BT	183054 1
2	400	Flat connection M10 max. 240 mm ²	XNH2-FCL-S400	183067 1
		Box terminal 95 - 300 mm ²	XNH2-FCL-S400-BT	183068 1
3	630	Flat connection M10 max. 300 mm ²	XNH3-FCL-S630	183079 1
		Box terminal 95 - 300 mm ²	XNH3-FCL-S630-BT	183080 1

Fuse Control FCE

3-pole for SASY 60i



00	160	Flat connection M8 max. 95 mm ²	XNH00-FCE-S160	183039 1
		Box terminal 1.5 - 95 mm ²	XNH00-FCE-S160-BT1	183040 1
			XNH00-FCE-S160-BT2	183041 1
1	250	Flat connection M10 max. 150 mm ²	XNH1-FCE-S250	183055 1
		Box terminal 35 - 150 mm ²	XNH1-FCE-S250-BT	183056 1
2	400	Flat connection M10 max. 240 mm ²	XNH2-FCE-S400	183069 1
		Box terminal 95 - 300 mm ²	XNH2-FCE-S400-BT	183070 1
3	630	Flat connection M10 max. 300 mm ²	XNH3-FCE-S630	183081 1
		Box terminal 95 - 300 mm ²	XNH3-FCE-S630-BT	183082 1

1-pole for	SASY	60i
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00	160	Flat connection M8 max. 95 mm ²	XNH00-1-S160	183042 1

Fuse Switch Disconnectors XNH...

Description Suitable for size Type Article No. Units per Designation Type Article No. Units per package

SmartWire-DT®, Module Kit

- XNH...-SDW-KIT: Consisting of SWD module, ready-made cables and additional cover for cable area
- Only in connection with Fuse Control FCE
- XNH...-SDW-KIT-EXT: Consisting of SWD module, mounting element for mounting plate, mini cable channel and contact plug

vt00417



SWD module with 2 digital inputs for switch pos	i-00 with FCE	XNH00-SWD-KIT	183083	1
tion indication and trip signal. Complete set for direct mounting at the switchgear.	1 with FCE	XNH1-SWD-KIT	183084	1
	2 with FCE	XNH2-SWD-KIT	183085	1
	3 with FCE	XNH3-SWD-KIT	183086	1
SWD module with 2 digital inputs for switch	00 with FCE	XNH00-SWD-KIT-EXT	183087	1
position indication and trip signal and 3 analog	, , -	E XNH123-SWD-KIT-EXT	183088	1
inputs for current measurement. For fixing on the				

Cover for connection area, 3-pole

mounting plate.

PYY

Cover for Confidential area, 5-pore								
Cable entries can be knocked out as required.	00	XNH00-XKSA-36	183091	2				
36, 42 and 66 mm length for top and bottom. Multiple use per device is possible.		XNH00-XKSA-66	183092	2				
	1	XNH1-XKSA-42	183093	2				
	2	XNH2-XKSA-42	183094	2				
	3	ΛΝΗ3-ΛΚ.Ο.V-4.5	192005	2				

Extension for cover of connection area, 3-pole for SASY 60i



Can be fixed at the top or bottom of the device.	00	XNH00-XKSV-39-34	183096 2
32 or 39 and 34 mm distance to the base plate.		XNH00-XKSV-32	183097 2

Reach-over protection, 3-pole for SASY 60i

- Can be fixed at the top or bottom of the device
- For 32 or 39 and 34 mm distance to the base plate

2 1 3

For flat connection or box terminal	00	XNH00-XKSS-39-34	183098	2
		XNH00-XKSS-32	183099	2
For BT2 box terminal	00	XNH00-XKSS-BT-39-34	183100	2
		XNH00-XKSS-BT-32	183101	2
For flat connection or box terminal	1	XNH1-XKSS-39-34	183102	2
		XNH1-XKSS-32	183103	2
	2	XNH2-XKSS-39-34	183104	2
		XNH2-XKSS-32	183105	2
	3	XNH3-XKSS-39-34	183106	2
		XNH3-XKSS-32	183107	2

Current-theft protection



•				
For manipulation-protected blocking of the	00, 1, 2, 3	XNH-XSECUR	183113	1 Set
inspection window				

Note: 1 set includes current-theft protection for a 3-pole XNH.

Locking device



For locking with a padlock when using a closed 00, 1, 2, 3 XNH-XLOCK 182993 1 XNH disconnector

Note: Padlock with a shackle diameter of 6 mm max.

1.59

Fuse Switch Disconnectors XNH...

	Description	Suitable for size	Type Designation	Article No.	Units pe package
	Device locking with sign				
111116	For keyless locking of the XNH switching devices in combination with XNH-XLOCK. Language German.	00, 1, 2, 3	XNH-XLDG-G	184805	5
	Internal lock for contact-protection				
vt15815	Tool-requiring lock of internal contact protection covers	00, 1, 2, 3	XNH-XLATCH	182992	1
7815	Switch position indicator 1 change-over contact, AC 250 V, 10/3 A	00	XNH00-XPOS	182995	1
815	<u> </u>	00 1, 2, 3	XNH00-XPOS XNH123-XPOS	182995 182996	1
1115					
	Mechanical fuse monitoring				
915	1 change-over contact, AC 250 V, 10/3 A	00 1, 2, 3	XNH00-XMFM XNH123-XMFM	182997 182998	3
	Note: Only in combination with NH fuse links eq Not for use in combination with box terminal or				
	Conncection kit, 2- and 4-pole				
00517	To mechanically connect 2x 1-pole or 3-pole	00, 1, 3/(2)	XNH-XLINK	182999	1

and 1-pole XNH disconnectors

Fuse Switch Disconnectors XNH...

	Description	Suitable for size	Type Designation	Article No.	Units pe package
	Connection technology				
215	Clamp-type terminal				
	1.5 - 50 mm², Cu	00	XNH00-XCT	183002	3
	25 - 150 mm², Cu	1	XNH1-XCT	183003	3
	25 - 240 mm², Cu	2	XNH2-XCT	183004	3
	CU-BAND-11x21x1	3	XNH3-XCT	183005	3
15	Prism terminal				
	10 - 70 mm², Cu/Al	00	XNH00-XPRC	183006	3
	70 - 150 mm², Cu/Al	1	XNH1-XPRC	183007	3
	120 - 240 mm², Cu/Al	2	XNH2-XPRC	183008	3
	120 - 300 mm², Cu/Al	3	XNH3-XPRC	183009	3
15	Double-prism terminal				
	2 x 70 - 95 mm², Cu/Al	1	XNH1-X2PRC	183010	3
	2 x 120 - 150 mm², Cu/Al	2	XNH2-X2PRC	183011	3
100	2 x 120 - 240 mm², Cu/Al	3	XNH3-X2PRC	183012	3
	Z X 120 Z 40 IIIII , 00// II	<u> </u>	AIVIIIO AZI IIIO	100012	
615	Box terminal				
M & ~					
Fig	35 - 150 mm², Cu/Al	1	XNH1-BT	183000	3
	35 - 150 mm², Cu/Al 95 - 300 mm², Cu/Al HNote: Box terminal and double-prism ter XNHXMFM.	2, 3	XNH23-BT	183001	3
	95 - 300 mm², Cu/Al HNote: Box terminal and double-prism ter	2, 3	XNH23-BT	183001	
	95 - 300 mm², Cu/Al HNote: Box terminal and double-prism ter XNHXMFM. Spare handle cover, 3-pole	2, 3	XNH23-BT mbination with mechanical fus	183001 e monitoring	
	95 - 300 mm², Cu/Al HNote: Box terminal and double-prism ter	2, 3	XNH23-BT mbination with mechanical fus XNH00-XGRIP	183001 e monitoring 183013	
	95 - 300 mm², Cu/Al HNote: Box terminal and double-prism ter XNHXMFM. Spare handle cover, 3-pole	2, 3 rminal not for use in co 00 1	XNH23-BT mbination with mechanical fus XNH00-XGRIP XNH1-XGRIP	183001 e monitoring	3
	95 - 300 mm², Cu/Al HNote: Box terminal and double-prism ter XNHXMFM. Spare handle cover, 3-pole	$\frac{00}{2}$	XNH23-BT mbination with mechanical fus XNH00-XGRIP XNH1-XGRIP XNH2-XGRIP	183001 e monitoring 183013 183014 183015	3
X X	95 - 300 mm², Cu/Al HNote: Box terminal and double-prism ter XNHXMFM. Spare handle cover, 3-pole	2, 3 rminal not for use in co 00 1	XNH23-BT mbination with mechanical fus XNH00-XGRIP XNH1-XGRIP	183001 e monitoring 183013 183014	1 1
TX TX	95 - 300 mm², Cu/Al HNote: Box terminal and double-prism ter XNHXMFM. Spare handle cover, 3-pole Cover for XNH disconnector Basic	2, 3 Trainal not for use in co 00 1 2 3	XNH23-BT mbination with mechanical fus XNH00-XGRIP XNH1-XGRIP XNH2-XGRIP XNH3-XGRIP	183001 e monitoring 183013 183014 183015 183016	1 1 1 1
X X	95 - 300 mm², Cu/Al HNote: Box terminal and double-prism ter XNHXMFM. Spare handle cover, 3-pole Cover for XNH disconnector Basic	$\frac{00}{2}$	XNH23-BT mbination with mechanical fus XNH00-XGRIP XNH1-XGRIP XNH2-XGRIP XNH3-XGRIP XNH3-XGRIP	183001 e monitoring 183013 183014 183015 183016	1 1 1 1
X X	95 - 300 mm², Cu/Al HNote: Box terminal and double-prism ter XNHXMFM. Spare handle cover, 3-pole Cover for XNH disconnector Basic	2, 3 rminal not for use in co 00 1 2 3	XNH23-BT mbination with mechanical fus XNH00-XGRIP XNH1-XGRIP XNH2-XGRIP XNH3-XGRIP XNH00-XGRIP-FCL XNH1-XGRIP-FCL	183001 e monitoring 183013 183014 183015 183016 183017 183018	1 1 1 1 1 1 1
X. X.	95 - 300 mm², Cu/Al HNote: Box terminal and double-prism ter XNHXMFM. Spare handle cover, 3-pole Cover for XNH disconnector Basic	2, 3 rminal not for use in co 00 1 2 3	XNH23-BT mbination with mechanical fus XNH00-XGRIP XNH1-XGRIP XNH2-XGRIP XNH3-XGRIP XNH00-XGRIP-FCL XNH1-XGRIP-FCL XNH2-XGRIP-FCL	183001 e monitoring 183013 183014 183015 183016 183017 183018 183019	1 1 1 1 1 1 1 1 1
X X	95 - 300 mm², Cu/Al HNote: Box terminal and double-prism ter XNHXMFM. Spare handle cover, 3-pole Cover for XNH disconnector Basic	2, 3 rminal not for use in co 00 1 2 3	XNH23-BT mbination with mechanical fus XNH00-XGRIP XNH1-XGRIP XNH2-XGRIP XNH3-XGRIP XNH00-XGRIP-FCL XNH1-XGRIP-FCL	183001 e monitoring 183013 183014 183015 183016 183017 183018	1 1 1 1 1 1 1
16	95 - 300 mm², Cu/Al HNote: Box terminal and double-prism ter XNHXMFM. Spare handle cover, 3-pole Cover for XNH disconnector Basic Cover for XNH disconnector with Fuse Control FCL	2, 3 Trainal not for use in co 00 1 2 3	XNH23-BT mbination with mechanical fus XNH00-XGRIP XNH1-XGRIP XNH2-XGRIP XNH3-XGRIP XNH3-XGRIP-FCL XNH1-XGRIP-FCL XNH3-XGRIP-FCL XNH3-XGRIP-FCL	183001 e monitoring 183013 183014 183015 183016 183017 183018 183019 183020	1 1 1 1 1 1 1 1
16	95 - 300 mm², Cu/Al HNote: Box terminal and double-prism ter XNHXMFM. Spare handle cover, 3-pole Cover for XNH disconnector Basic	2, 3 Trainal not for use in co 00 1 2 3 00 1 2 3	XNH23-BT mbination with mechanical fus XNH00-XGRIP XNH1-XGRIP XNH2-XGRIP XNH3-XGRIP XNH00-XGRIP-FCL XNH1-XGRIP-FCL XNH3-XGRIP-FCL XNH3-XGRIP-FCL	183001 e monitoring 183013 183014 183015 183016 183017 183018 183019 183020	1 1 1 1 1 1
16	95 - 300 mm², Cu/Al HNote: Box terminal and double-prism ter XNHXMFM. Spare handle cover, 3-pole Cover for XNH disconnector Basic Cover for XNH disconnector with Fuse Control FCL	2, 3 Trainal not for use in co 00 1 2 3 00 1 2 3	XNH23-BT mbination with mechanical fus XNH00-XGRIP XNH1-XGRIP XNH2-XGRIP XNH3-XGRIP-FCL XNH1-XGRIP-FCL XNH3-XGRIP-FCL XNH3-XGRIP-FCL XNH3-XGRIP-FCL XNH3-XGRIP-FCL	183001 e monitoring 183013 183014 183015 183016 183017 183018 183019 183020 183021 183022	1 1 1 1 1 1 1
16 16	95 - 300 mm², Cu/Al HNote: Box terminal and double-prism ter XNHXMFM. Spare handle cover, 3-pole Cover for XNH disconnector Basic Cover for XNH disconnector with Fuse Control FCL	2, 3 Trainal not for use in co 00 1 2 3 00 1 2 3	XNH23-BT mbination with mechanical fus XNH00-XGRIP XNH1-XGRIP XNH2-XGRIP XNH3-XGRIP XNH00-XGRIP-FCL XNH1-XGRIP-FCL XNH3-XGRIP-FCL XNH3-XGRIP-FCL	183001 e monitoring 183013 183014 183015 183016 183017 183018 183019 183020	1 1 1 1 1 1

Note: FCL and FCE can only be used with fuse links equipped with live handle straps.

Fuse Switch Disconnectors XNH...

Technical Data

Replacing NH fuses or any other activities (such as installation, operation etc. . . .) on NH fuse switch disconnectors may be carried out by electro-technically qualified and specialized staff only. Power-related data provided by the manufacturer, e.g. max. rated make and break capacities, must be taken into account. Non-qualified employees are not authorized to install or operate such products as they cannot foresee the consequences of their actions. General regulations (e.g. safety regulations, protective clothing . . .) and regional requirements (e.g. for accident prevention on electrical systems and operating resources) must at all times be respected.

		XNH00S160	XNH1S250
Ctandard		IEC/EN 60947-3	IEC/EN 60947-3
NH fuses ¹⁾ according to DIN VDE 0636-2		000 / 00	1
Rated operational voltage	U _e	690 V AC, 440 V DC	690 V AC, 440 V DC
Rated operational current	I _e	160 A	250 A
Rated frequency	f	40 - 60 Hz	40 - 60 Hz
Rated insulation voltage	U _i	800 V AC	800 V AC
Total power loss at I _{th} (without fuses)	P _v	14 W	22 W
Power loss at 80% (without fuses)	P _v	9 W	14.1 W
Rated impulse withstand voltage	U _{imp}	8 kV	8 kV
Utilization category	шр	AC-23B (400 V / 160 A)	AC-23B (400 V / 250 A)
· ,		AC-22B (500 V / 160 A)	AC-22B (500 V / 250 A)
		AC-21B (690 V / 160 A)	AC-21B (690 V / 250 A)
		DC-22B (250 V / 160 A)	DC values on request
		DC-21B (440 V / 160 A)	
Rated conditional short-circuit current		120 kA (500 V)	120 kA (500 V)
acou conditional energy energy energy		100 kA (690 V)	100 kA (690 V)
Rated short-time withstand current	I	77 kA	10 kA (030 V)
Max. permitted power loss per fuse link	P _{NH}	12 W	23 W
Degree of protection - front (XNH installed)	' NH	operating status IP20	operating status IP20
Degree or protection - front (Aivi i installed)		contact protection IP2XC	contact protection IP2XC
		handle cover open IP10	handle cover open IP10
Ambient temperature	Т	-25 to +55 °C	-25 to +55 °C
Rated duty	T ₃₅	uninterrupted duty	uninterrupted duty
			dependent manual activation
Activation		dependent manual activation vertical/horizontal	•
Fitting position			vertical/horizontal
Altitude		max. 2000 m	max. 2000 m
Pollution degree		3	3
Overvoltage category		III	III
Colour		grey	grey
RoHs		yes	yes
Energy feeder direction		any (FLEX System)	any (FLEX System)
Lockable		yes, optional	yes, optional
Sealable		yes, standard	yes, standard
Material		Polyamide	Polyamide
Reaction to fire		self-extinguishing according to UL94	self-extinguishing according to UL94
Halogen-free		yes	yes
/oltage test		yes, sliding inspection windows	yes, sliding inspection windows
Electrical service life		300 operating cycles	200 operating cycles
Mechanical service life		1400 operating cycles	1400 operating cycles
Track resistance		CTI 600	CTI 600
Temperature resistance		up to 125 °C	up to 125 °C
Terminal capacities			
Flat connection			
Bolt diameter		M8	M10
Cable lug max. width		25 mm	37 mm
Flat rail		20x10 mm	30x10 mm
Box terminal			
multi-wire		1.5 - 95 mm ² Cu	35 - 150 mm ² Cu/Al
Cu-Band		9x9x0.8 mm	10x16x0.8 mm
Clamp-type terminal			
multi-wire		1.5 - 50 mm ² Cu	25 - 150 mm ² Cu
Cu-Band		6x9x0.8 mm	6x16x0.8 mm
Prism terminal		2.12.000 11111	
		10 - 70 mm ² Cu/ΔI	10 - 150 mm ² Cu/ΔI
multi-wire Double-prism terminal		10 - 70 mm ² Cu/Al	10 - 150 mm ² Cu/Al

Note: Please leave a minimum distance to grounded live parts: Side = 20 mm, top = 50 mm. Exception DC-21B: Seitlich = 50 mm, top = 100 mm (valid for XNH00...).

¹⁾ Type-tested with NH fuse links of characteristic gG. Safety control FCE and FCL only in combination with NH fuses equipped with live handle straps.

Fuse Switch Disconnectors XNH...

Technical Data

Replacing NH fuses or any other activities (such as installation, operation etc. . . .) on NH fuse switch disconnectors may be carried out by electro-technically qualified and specialized staff only. Power-related data provided by the manufacturer, e.g. max. rated make and break capacities, must be taken into account. Non-qualified employees are not authorized to install or operate such products as they cannot foresee the consequences of their actions. General regulations (e.g. safety regulations, protective clothing . . .) and regional requirements (e.g. for accident prevention on electrical systems and operating resources) must at all times be respected.

		XNH2S400	XNH3S630
Standard		IEC/EN 60947-3	IEC/EN 60947-3
NH fuses ¹⁾ according to DIN VDE 0636-2		2	3 / 2
Rated operational voltage	U _e	690 V AC, 440 V DC	690 V AC, 440 V DC
Rated operational current	I _e	400 A	630 A
Rated frequency	f	40 - 60 Hz	40 - 60 Hz
Rated insulation voltage	U _i	800 V AC	800 V AC
Total power loss at I _{th} (without fuses)	P _v	36 W	86 W
Power loss at 80% (without fuses)	P _v	22.9 W	54.8 W
Rated impulse withstand voltage	U _{imp}	8 kV	8 kV
Jtilization category	mp	AC-23B (400 V / 400 A)	AC-23B (400 V / 630 A)
		AC-22B (500 V / 400 A)	AC-22B (500 V / 630 A)
		AC-21B (690 V / 400 A)	AC-21B (690 V / 630 A)
		DC values on request	DC values on request
Rated conditional short-circuit current		120 kA (500 V)	120 kA (500 V)
actor conditional energy contents		100 kA (690 V)	100 kA (690 V)
Rated short-time withstand current	1	10 kA	10 kA
Max. permitted power loss per fuse link	I _{cw} P _{NH}	34 W	48 W
Degree of protection - front (XNH installed)	I NH	operating status IP20	operating status IP20
segree or protection - front (Aivit Installed)		contact protection IP2XC	contact protection IP2XC
Ambient temperature	т	handle cover open IP10	handle cover open IP10
Ambient temperature	T ₃₅	-25 to +55 °C	-25 to +55 °C
Rated duty		uninterrupted duty	uninterrupted duty
Activation		dependent manual activation	dependent manual activation
Fitting position		vertical/horizontal	vertical/horizontal
Altitude		max. 2000 m	max. 2000 m
Pollution degree		3	3
Overvoltage category		III	III
Colour		grey	grey
RoHs		yes	yes
Energy feeder direction		any (FLEX System)	any (FLEX System)
Lockable		yes, optional	yes, optional
Sealable		yes, standard	yes, standard
Material		Polyamide	Polyamide
Reaction to fire		self-extinguishing according to UL94	self-extinguishing according to UL94
Halogen-free		yes	yes
√oltage test		yes, sliding inspection windows	yes, sliding inspection windows
Electrical service life		200 operating cycles	200 operating cycles
Mechanical service life		800 operating cycles	800 operating cycles
Track resistance		CTI 600	CTI 600
Temperature resistance		up to 125 °C	up to 125 °C
Ferminal capacities		1 7 7 7	
Flat connection			
Bolt diameter		M10	M10
Cable lug max. width		48 mm	56 mm
Flat rail		40x10 mm	50x10 mm
Box terminal		70/10 111111	JUATU IIIIII
		05 200 mm ² Cu	05 200 mm² Cu
multi-wire		95 - 300 mm ² Cu	95 - 300 mm ² Cu
Cu-Band		6x16x0.8 to 10x32x1 mm	6x16x0.8 to 10x32x1 mm
Clamp-type terminal		05 040 3.0	
multi-wire		25 - 240 mm ² Cu	on request
Cu-Band		10x16x0.8 mm	11x21x1 mm
Prism terminal			
multi-wire		120 - 240 mm² Cu/Al	120 - 300 mm ² Cu/Al
Double-prism terminal			
multi-wire		2x (120 - 150) mm ² Cu/Al	2x (120 - 240) mm ² Cu/Al

Note: Please leave a minimum distance to grounded live parts: Side = 20 mm, top = 50 mm.

¹⁾ Type-tested with NH fuse links of characteristic gG. Safety control FCE and FCL only in combination with NH fuses equipped with live handle straps.

Connection of laminated copper band (CU-BAND...) to XNH fuse switch disconnectors with box terminal BT

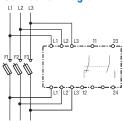
Number of layers	×	Width	×	Thickness of layers	II	Cross-section (mm²)	Hight copper band (mm)	max. Rated operational current (A)	13.4 mm (0.537)	21.9 mm (0.86)	22 mm (1.27)	22 mm (1.20)
									XNH00BT	XNH1BT	XNH2BT	XNH3BT
3	Х	9	Χ	8.0	=	21.6	2.4	100			-	-
6	Х	9	Х	0.8	=	43.2	4.8	160			-	-
9	Х	9	Х	8.0	=	64.8	7.2	200	•		-	-
6	Х	16	Х	8.0	=	74.4	4.65	250	-	•	•	•
10	Х	16	Х	8.0	=	124	7.75	400	-			
5	Х	24	Х	1.0	=	120	5	400	-	-	•	•
11	Х	21	Х	1.0	=	231	11	630	-	-	•	•
8	Х	24	Х	1.0	=	192	8	630	-	-	•	•
10	Х	24	Х	1.0	=	240	10	630	-	-	•	•
5	Х	32	Х	1.0	=	160	5	160	-	-	•	•
10	Х	32	Х	1.0	=	320	10	800	-	-	•	•
10	Х	40	Х	1.0	=	400	10	1000	-	-	-	-
10	Х	50	Х	1.0	=	500	10	1250	-	-	-	-
10	Χ	80	Х	1.0	=	800	10	1600	-	-	-	-

Technical Data Fuse Control FCE

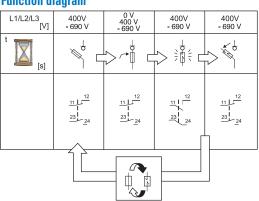
	XNHFCE	
Power supply	self-supplied	
Power consumption	1.5 VA	
Overvoltage category		
230/400 V	III	
500 V	I	
Frequency range	50 - 60 Hz	
Input resistance	>1 kOhm/V	
Voltage inputs	400 - 500 V AC (+/-10%)	
Temperature range	-5 to +55 °C	
Operation indicator	1 LED green	
Failure indicator	3 LEDs (F1, F2, F3) rot	
Degree of protection	IP3X	
Function test	Test button for relay + LEDs	
EMC	IEC 61000-4-5 / IEC 61000-4-4	
Fuse links inserts	NH with live handle straps	
Outputs		
Relay output	1 NC, 1 NO	
Max. voltage	250 V AC / 24 V DC	
Max. switching current	1 A	

Note: Not suitable for single-phase application!

Connection diagram



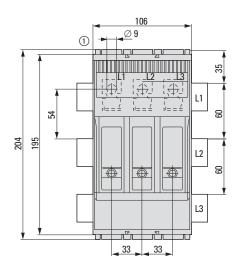
Function diagram

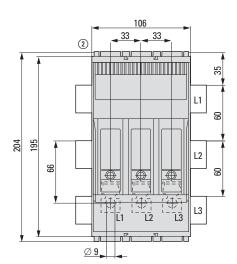


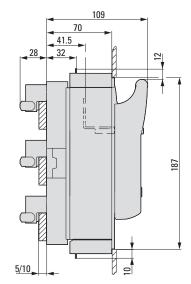
Fuse Switch Disconnectors XNH...

Dimensions

XNH00-S160..., XNH00-FCL-S160, XNH00-FCL-S160-BT1

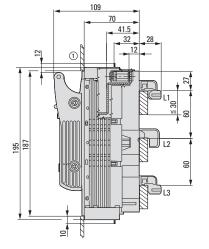


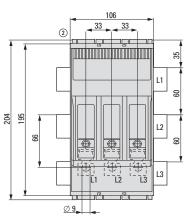


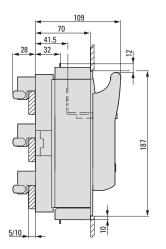


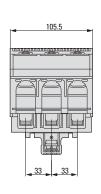
1230DIM-362

XNH00-FCL-S160-BT2



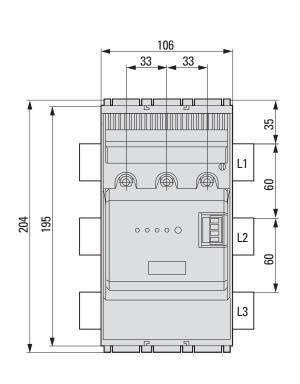


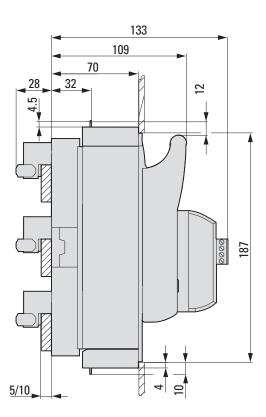




1230DIM-363

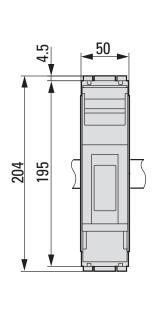
XNH00-FCE-S160...

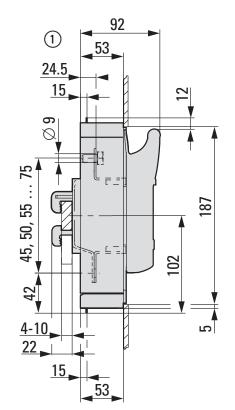


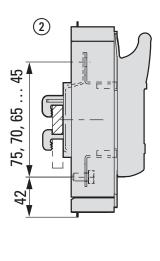


1230DIM-364

XNH00-1-S160



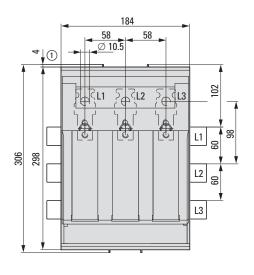


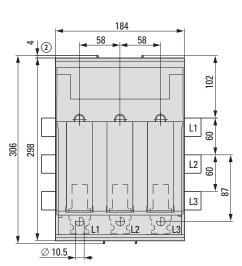


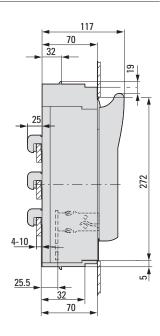
1230DIM-375

Fuse Switch Disconnectors XNH...

XNH1-S250..., XNH1-FCL-S250...

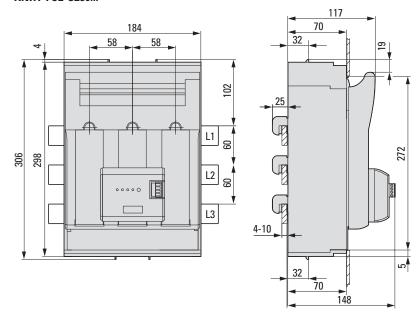






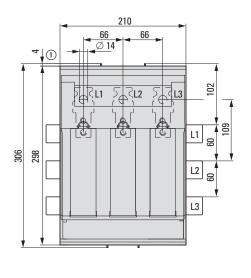
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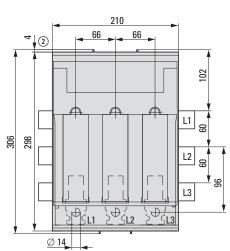
XNH1-FCE-S250...

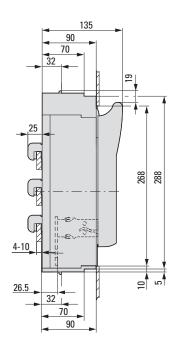


1230DIM-370

XNH2-S400..., XNH2-FCL-S400...

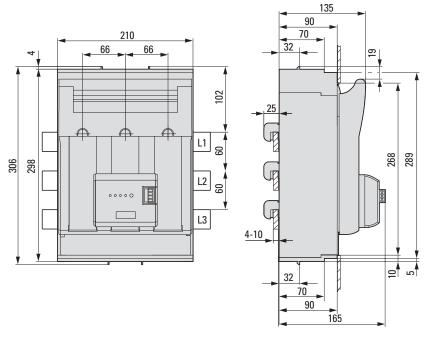






1230DIM-367

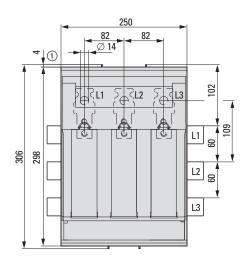
XNH2-FCE-S400...

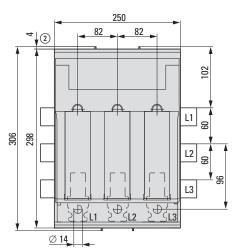


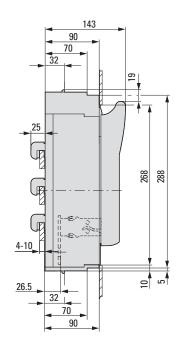
1230DIM-371

Fuse Switch Disconnectors XNH...

XNH3-S630..., XNH3-FCL-S630...

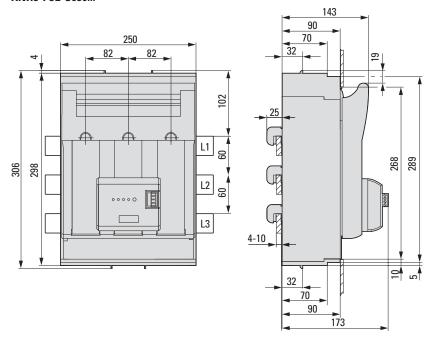






1230DIM-368

XNH3-FCE-S630...



1230DIM-372

G45812 0106356





SG46912



Description

NH-Fuse-Switch-Disconnector LTS-100/C00/3-R:

- For fuse links NH000
- Rated operating current 125 A
- Width only 63 mm, Height 195 mm

Compact NH-Fuse-Switch-Disconnector FCFSDNH000BBC60-3:

- For fuse links NH000
- Rated operating current 125 A
- Width 90 mm, Height 160 mm

NH-Vertical Fuse-Switch-Disconnector NH-SLS-00/160-60:

- For fuse links NH00
- Rated operating current 160 A
- Width 50 mm, Height 455 mm

Fuse Switch Disconnectors LTS, FC, NH-SLS

I_e (A) Type of connection Article No. Units per Size Designation package

NH-Fuse-Switch-DisconnectorLTS-100/C00/3-R

- Inclusive shock hazard protection at the top and bottom
- · Drill-free mounting
- Max. Fuse-link 500 V: 125 A
- Width only 63 mm
- Utilisation: 20 x 5/10, 30 x 5/10, Double-T



000 125 Connection at the bottom Lift terminal 1.5 - 50 mm²

LTS-100/C00/3-R

284690

Compact NH-Fuse-Switch-Disconnector, FCFSDNH000BBC60-3

- \bullet Inclusive shock hazard protection at the top and bottom
- · Drill-free mounting
- For mounting onto busbars with distance between busbars 60 mm
- Max. Fuse-link 500 V: 100 A 690 V: 100 A
- Width 90 mm
- Utilisation: 12 x 5/10



000	100	Connection top or bottom
		Lift terminal 1.5 - 50 mm ²

FCFSDNH000BBC60-3

139533

70

1.71

Fuse Switch Disconnectors LTS, FC, NH-SLS

Size I_e (A) Type of connection Type Article No. Units per Designation Type Article No. Units per package

NH-Vertical Fuse-Switch-Disconnector NH-SLS-00/160-60

- Inclusive cover for termination space
- · Drill-free mounting
- Max. Fuse-link

400 V: 160 A

690 V: 160 A (nur with NH-SLS-00/160-60)

- Clamp-type terminals included in the delivery
- 60 mm centre line distance of busbars
- Utilisation: 12 x 5/10, 20 x 5/10, 25 x 5/10, 30 x 5/10, Double-T

G46912



Without fuse monitoring

Without	ut iuse iiioi	intorning			
00	160	Connection top or bottom	106211 1/182		
With f	use monito	ring			
00	160	Connection top or bottom	NH-SLS-00/160-60-SI	106216 1/112	

Suitable with Type Article No. Units per Designation Type Article No. Units per package

Teminal Cover/Size Compensation for GST...

• For NH-fuse-links Z-NH/00... and solid-links Z-NH-00/TR see chapter Accessories Fuse Devices

for NH-SLS-00/160-60

Z-NH-SLS-KA

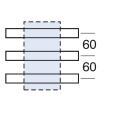
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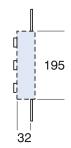
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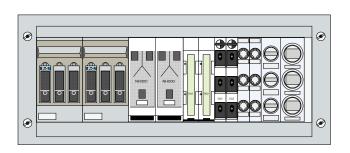


Coordination Table

• Combinations possible without bending the copper busbar







	Device	XNH00-S160	LTS-100/C00/3-R	D02-S/63/3-RS	D02-LTS/63/3-R(-HK)	D02-S0/63/3-R-27	DII-SO/25/3-R(-PS)	DIII-SO/63/3-R(-PS)	AM195
						Z-D02/R/3			
	Accessory	XNH00-KSS-32					SBS-RS60	SBS-RS60	
Cu	12x5/10	Х			Х	Х	Х	X	Χ
	20x5/10	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ
	25x5/10	Χ			Х	Χ	Χ	Χ	Χ
	30x5/10	X	Х	Χ	Х	X	X	X	Χ
	Double-T	X	X	X	X	Χ	X	X	_

Fuse Switch Disconnectors LTS, FC, NH-SLS

Rated current Dimensions Cross-section²⁾ Utilisation Type Article No. range¹⁾ (number of layers x width x thickness for a single layer)

Units per

package

Multi-layer Copper Band, insulated

- E-Cu conductor, tinned
- Rated operating voltage 1000 V AC / 1500 V DC
- UL approved for max. 600 V AC
- Insulation resistance 20 kV/mm
- \bullet Insulating material heat resistant up to +105 °C
- Self-extinguishing according to UL 94 VO
- 2000 mm long
- Continuous currents according to DIN 43671, see technical data



100	3 x 9 x 0.8	21.6	black	CU-BAND3X9X0.8-BK	081167	20
	3 x 9 x 0.8	21.6	blue	CU-BAND3X9X0.8-BU	080960	20
	3 x 9 x 0.8	21.6	green/yellow	CU-BAND3X9X0.8-GNYE	081006	20
160	6 x 9 x 0.8	43.2	black	CU-BAND6X9X0.8-BK	081414	10
	6 x 9 x 0.8	43.2	blue	CU-BAND6X9X0.8-BU	081344	10
	6 x 9 x 0.8	43.2	green/yellow	CU-BAND6X9X0.8-GNYE	081367	10
200	9 x 9 x 0.8	64.8	black	CU-BAND9X9X0.8-BK	081515	10
	9 x 9 x 0.8	64.8	blue	CU-BAND9X9X0.8-BU	081436	10
	9 x 9 x 0.8	64.8	green/yellow	CU-BAND9X9X0.8-GNYE	081485	10
250	6 x 16 x 0.8	74.4	black	CU-BAND6X16X0.8-BK	081310	10
	6 x 16 x 0.8	74.4	blue	CU-BAND6X16X0.8-BU	081222	10
	6 x 16 x 0.8	74.4	green/yellow	CU-BAND6X16X0.8-GNYE	081275	10
400	10 x 16 x 0.8	124	black	CU-BAND10X16X0.8-BK	080739	5
	10 x 16 x 0.8	124	blue	CU-BAND10X16X0.8-BU	079736	5
	10 x 16 x 0.8	124	green/yellow	CU-BAND10X16X0.8-GNYE	080698	5
	5 x 24 x 1	120	black	CU-BAND5X24X1-BK	119032	5
630	11 x 21 x 1	231	black	CU-BAND11X21X1-BK	080923	5
	11 x 21 x 1	231	blue	CU-BAND11X21X1-BU	080769	5
	11 x 21 x 1	231	green/yellow	CU-BAND11X21X1-GNYE	080836	5
	8 x 24 x 1	192	black	CU-BAND8X24X1-BK	119033	5
	10 x 24 x 1	240	black	CU-BAND10X24X1-BK	119034	5
	5 x 32 x 1	160	black	CU-BAND5X32X1-BK	119035	5
800	10 x 32 x 1	320	black	CU-BAND10X32X1-BK	119036	3
1000	10 x 40 x 1	400	black	CU-BAND10X40X1-BK	119037	3
1250	10 x 50 x 1	500	black	CU-BAND10X50X1-BK	119038	2
1600	10 x 80 x 1	800	black	CU-BAND10X80X1-BK	119039	1

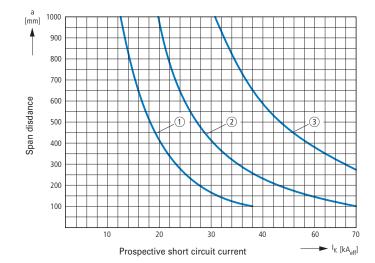
²⁾ Cross-sectional area: Wiring instructions for devices (e.g., minimum terminal capacity of ... mm²) must be given priority

083635

Fuse Switch Disconnectors LTS, FC, NH-SLS

Used for	Type Designation	Article No.	Units per package
Line Supports			
Profile ledge			
Clamp clips	BZ248	076516	10
Clamp clips			
3 x 9 x 0.8 6 x 9 x 0.8	BZ249	078889	10
4 x 16 x 0.8 6 x 16 x 0.8 10 x 16 x 0.8	BZ251	081262	10

Short-circuit strength diagrams



11 x 21 x 1

BZ249

BZ252

- BZ251 BZ252

Fuse Switch Disconnectors LTS, FC, NH-SLS

Technical Data

Replacing NH fuses or any other activities (such as installation, operation etc. . . .) on NH fuse switch disconnectors may be carried out by electro-technically qualified and specialized staff only. Power-related data provided by the manufacturer, e.g. max. rated make and break capacities, must be taken into account. Non-qualified employees are not authorized to install or operate such products as they cannot foresee the consequences of their actions. General regulations (e.g. safety regulations, protective clothing . . .) and regional requirements (e.g. for accident prevention on electrical systems and operating resources) must at all times be respected.

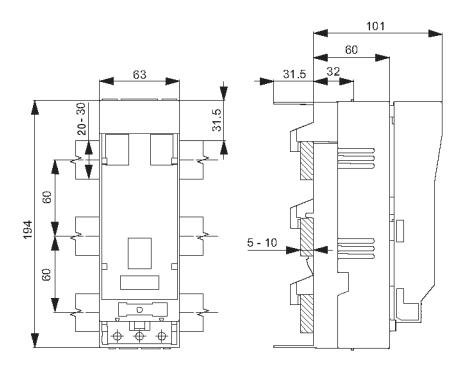
		LTS-100/000/3-R	FCFSDNH000BBC60-3	NH-SLS-00/160-60
Standard		IEC/EN 60947-3	IEC/EN 60947-3	IEC/EN 60947-3
NH fuses ¹⁾ according to DIN VDE 0636-2		000	000	00
Rated operational voltage	U _e	500 V AC	690 V AC, 440 V DC	690 V AC
Rated operational current	I _e	125 A	125 A	160 A
Rated frequency	f	40 - 60 Hz	40 - 60 Hz	40 - 60 Hz
Rated insulation voltage	U _i	500 V AC	800 V AC	800 V AC
Total power loss at I _{th} (without fuses)	P _v	18 W	13,8 W	27 W
Power loss at 80% (without fuses)	P _v	14	14.1 W	17,3 W
Rated impulse withstand voltage	U _{imp}	8 kV	6 kV	8 kV
Utilization category		AC-22B (500 V / 125 A)	AC-23B (400 V / 125 A)	AC-23B (400 V / 160 A)
		_	AC-22B (500 V / 125 A)	AC-23B (500 V / 125 A)
		_	AC-21B (690 V / 125 A)	AC-22B (690 V / 160 A)
		DC-22B (220 V / 100 A)	DC-22B (440 V / 63 A)	_
		_	DC-21B (440 V / 125 A)	_
Rated conditional short-circuit current		50 kA (500 V)	50 kA (100 A) (500 V)	50 kA (690 V)
		. ,	50 kA (80 A) (690 V)	, ,
Rated short-time withstand current	I _{cw}	_	_	_
Max. permitted power loss per fuse link	P _{NH}	12 W	9 W	12 W
Degree of protection - front (XNH installed)	- INH	operating status IP20	operating status IP20	operating status IP20
Dog. co o. p. o. co. co. co. co. co. co. co. co. co.		handle cover open IP10	handle cover open IP10	handle cover open IP10
Ambient temperature	T ₃₅	-25 to +55 °C	-25 to +55 °C	-25 to +55 °C
Rated duty	'35	uninterrupted duty	uninterrupted duty	uninterrupted duty
Activation		dependent manual activation		dependent manual activation
Fitting position		vertical	vertical/horizontal	vertical
Altitude		max. 2000 m	max. 2000 m	max. 2000 m
Pollution degree		3	3	3
Overvoltage category				
Colour		grey/black	grey	grey
RoHs		yes	yes	yes
Energy feeder direction		bottom	any (FLEX System)	any (FLEX System)
Lockable		_	-	-
Sealable		yes, standard		
Material	 	Polyamide	Polyamide	Polyamide
Reaction to fire				self-extinguishing according to UL94
Halogen-free				
		yes _	yes, sliding inspection windows	yes
Voltage test			300 operating cycles	
Electrical service life		200 operating cycles	,	200 operating cycles
Mechanical service life		1400 operating cycles	1700 operating cycles	1400 operating cycles
Track resistance		CTI 400	CTI 200	CTI 200
Temperature resistance		up to 125 °C	up to 125 °C	up to 125 °C
Terminal capacities				
Flat connection				1.10
Bolt diameter		_	_	M8
Cable lug max. width		_	_	27 mm
Flat rail		_	_	20x10 mm
Box terminal		_		
multi-wire		1.5 - 50 mm ² Cu	1.5 - 50 mm ² Cu	_
Cu-Band		6x9x0.8 mm	6x9x0.8 mm	_

Note: Please leave a minimum distance to grounded live parts: Side = 20 mm, top = 50 mm.

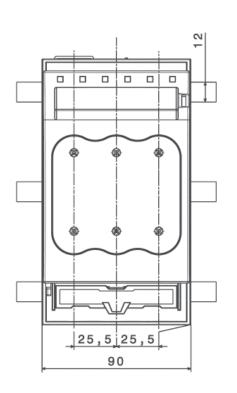
¹⁾ Type-tested with NH fuse links of characteristic gG.

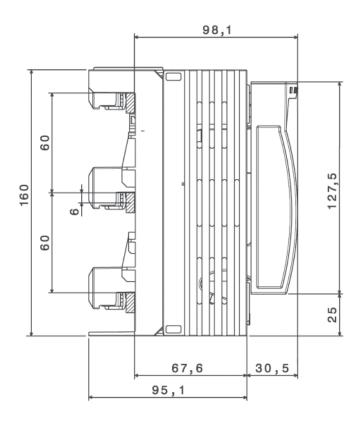
Dimensions

LTS-100/C00/3-R

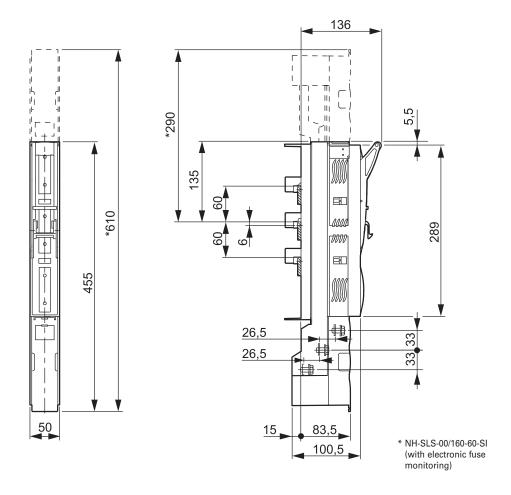


FCFSDNH000BBC60-3





NH-SLS-00/160-60(-SI)



Technical Data Multi-layer Copper Band, insulated, CU-BAND

	CU-BAND				
Standards	EN 61439-2 (max. 1000 V AC and 1500 V DC), UL 758 (max. 600 V AC and 750 V DC				
Insulating material					
Heat resistant	up to +105 °C				
Self-extinguishing	according to UL 94 VO				
Dielectric strength	20 kV/mm				
Copper	E-CU, tinned				
Operating temperature	-30 °C / +105 °C				
Length	2 m				
Colors	black (BK), blue (BU), green/yellow (GNYE)				
UL File No.	E248096. UL report applies to both US and Canada.				

Continuous currents according to DIN 43671 for current rails from E-Cu in indoor facilities at 35 °C air temperature around the conductor and max. X °C busbar temperature.

Rated current range	Dimensions	Cross-section [mm²]	Continuous current AC			Туре	Colour
	Number of layers x Width x thickness of a layer [mm]		X = 65 °C	X = 85 °C	X = 105 °C		
	,		$\Delta T = 30 \text{ K}$	$\Delta T = 50 \text{ K}$	$\Delta T = 70 \text{ K}$		
100 A	3 x 9 x 0.8	21.6	98 A	130 A	152 A	CU-BAND3X9X0.8	BK, BU, GNYE
160 A	6 x 9 x 0.8	43.2	147 A	196 A	228 A	CU-BAND6X9X0.8	BK, BU, GNYE
200 A	9 x 9 x 0.8	64.8	179 A	238 A	277 A	CU-BAND9X9X0.8	BK, BU, GNYE
250 A	6 x 16 x 0.8	74.4	252 A	335 A	391 A	CU-BAND6X16X0.8	BK, BU, GNYE
400 A	10 x 16 x 0.8	128	330 A	439 A	512 A	CU-BAND10X16X0.8	BK, BU, GNYE
400 A	5 x 24 x 1	120	369 A	491 A	572 A	CU-BAND5X24X1	BK
630 A	11 x 21 x 1	231	563 A	749 A	873 A	CU-BAND11X21X1	BK, BU, GNYE
630 A	8 x 24 x 1	192	483 A	642 A	749 A	CU-BAND8X24X1	BK
630 A	10 x 24 x 1	240	559 A	743 A	866 A	CU-BAND10X24X1	BK
630 A	5 x 32 x 1	160	477 A	634 A	739 A	CU-BAND5X32X1	BK
800 A	10 x 32 x 1	320	721 A	959 A	1118 A	CU-BAND10X32X1	BK
1000 A	10 x 40 x 1	400	850 A	1131 A	1318 A	CU-BAND10X40X1	BK
1250 A	10 x 50 x 1	500	1020 A	1357 A	1581 A	CU-BAND10X50X1	BK
1600 A	10 x 80 x 1	800	1500 A	1995 A	2325 A	CU-BAND10X80X1	BK

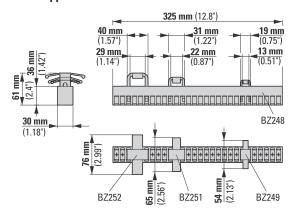
The rated currents and wiring instructions for devices (e.g. connection cross-section at least ... mm²) are primarily to be observed.

Multiplication factor 1.72 using 2x CU-BAND in parallel.

Multiplication factor 2.25 when using 3x CU-BAND in parallel arrangement according to DIN 43671.

Dimensions

Line Supports BZ



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