New XNH fuse-switch disconnectors with a direct connection to SmartWire-DT®

Product information 2016

Powering Business Worldwide

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Eaton XNH fuse-switch disconnectors – Smart, compact, safe, ingenious!

Smart and communicative

- The communication module can simply be snapped onto the cable area cover included in the scope of delivery of the XNH switchgear
- The electronic fuse control at the switchgear provides the maintenance staff with information on the operating and fuse status
- Thanks to SmartWire-DT it is possible to continuously document and monitor the fuse status, the switch position and the power values
- Possibility to transmit the data to all commonly used industrial field busses via gateways
- A lateral cable duct included in the scope of delivery holds the control lines in place

SmartWire-DT®

For more information, please visit www.eaton.eu/swd

XNH00   XNH1   XNH2   XNH3

Compact and truly lean

- Reduced installation depth: Solution without adapter, direct contacting of the busbars
- Available in 1- and 3-pole standard versions, can be combined with 2- and 4-pole versions
- Compatible with mounting plate, DIN rail and SASY 60i busbar system
- Busbar supports for flat copper for all XNH sizes, can be overbuilt
- Switchboard covers can be removed while the switch cover is closed

Safety thanks to reliable testing

Design verification of Eaton switchgear and control gear assemblies according to EN 61439 provides safety and peace of mind

LED

- Integrated into Eaton switchgear assemblies acc. to EN 61439 by testing, therefore they can carry the maximum nominal current instead of only 80% as otherwise usual
- Provide a lot more safety functions than required by the EN 60947-3 standard
- FCL switchgear with integrated LED flashing function when the fuse has tripped
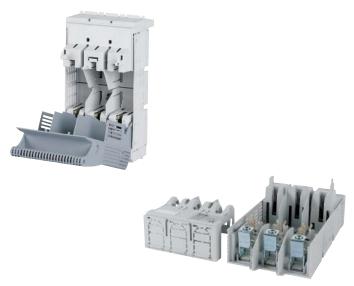- Short current paths, little power loss

Personal safety

Protection against unauthorized actions, for example

- XNH switch covers are locked by a padlock or a special bolt to prevent unauthorized individuals and laymen from getting access
- High degree of protection IP2XC in the operating status
- Safe switching thanks to integrated hand protection at the left/right + top of the switch cover
- Power theft protection: Inspection glass with lock, so it cannot be removed
- Park position for XNH switch cover during maintenance and service work

Quick and easy installation

- Bending of copper in the switchboard is no longer necessary thanks to different options of front plate supports at the switchgear
- Fast cable connection thanks to different connection options at the switchgear
- SASY60i FLEX: Easy inversing of output top/bottom with just a few touches, reduced inventory requirements, for all XNH sizes
- Mixing of XNH and D-fuse elements on a 60 mm busbar system is possible
- Connection area is closed by covers provided for top & bottom
- FCE or FCL fuse control and SmartWire-DT® are easy to retrofit at any time
- Very plain pre-cut blanks for switchboard covers with XNH sizes 00, 1, 2 and 3

XNH00 with new box terminal to 95 mm²

All advantages at a glance

1. **Advantages for system operators / object owners**
   + Shorter downtimes thanks to LED flashing function when a fuse has tripped
   + Increased safety for maintenance personnel and laymen
   + Thanks to SmartWire-DT it is possible to continuously document and monitor fuse status, switch position and current values

2. **Advantages for installers**
   + Maximum safety during switching processes, fuse replacements, maintenance jobs and expansion
   + Fast cable connection thanks to different connection options at the device
   + Easy expansion of device functions thanks to comprehensive accessories

3. **Advantages for panel builders**
   + Smart system architecture in the switchboard because there is no more need to bend copper
   + Full rated current thanks to design verification by testing in Eaton switchgear and control gear assemblies according to EN 61439
   + Perfect appearance thanks to a single-source solution
   + Completely integrated into Eaton software tools
   + Fast installation and wiring

System overview

Basic devices without flashing function, series XNH-…

Devices with LED flashing function, series XNH-…-FCL

Devices with electronic fuse control, series XNH-…-FCE	SmartWire-DT option

For more details, please visit www.eaton.eu/xnh

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Fuse Switch Disconnectors XNH…

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- Degree of protection IP2XC in operating mode
- According to IEC/EN 60947-3
- AC 690 V / DC 440 V
- Conditional rated short-circuit current 120kA (500V) and 100kA (690V)
- Reaction to fire according to UL 94, self-extinguishing
- Current paths of electrolytic copper, silver-plated
- For fixing on mounting plates and DIN rails
- Fuse Control Light with optical signalling of triggered fuse-links
- Fuse Control FCE with electronic monitoring of fuse-links

vt64015

Size	Type of connection	I_e (A)	Type designation	Article No.	Pack (pcs.)

Basic
3-pole for mounting plate

vt61615

Size	Type of connection	I_e (A)	Type designation	Article No.	Pack (pcs.)
00	Flat connection M8 max. 95 mm²	160	XNH00-A160	183025	1
	Box terminal 1.5 - 95 mm²	160	XNH00-A160-BT	183026	1
1	Flat connection M10 max. 150 mm²	250	XNH1-A250	183043	1
	Box terminal 35 - 150 mm²	250	XNH1-A250-BT	183044	1
2	Flat connection M10 max. 240 mm²	400	XNH2-A400	183057	1
	Box terminal 95 - 300 mm²	400	XNH2-A400-BT	183058	1
3	Flat connection M10 max. 300 mm²	630	XNH3-A630	183071	1
	Box terminal 95 - 300 mm²	630	XNH3-A630-BT	183072	1

Fuse Control Light
3-pole for mounting plate

wa_vt15515

Size	Type of connection	I_e (A)	Type designation	Article No.	Pack (pcs.)
00	Flat connection M8 max. 95 mm²	160	XNH00-FCL-A160	183027	1
	Box terminal 1.5 - 95 mm²	160	XNH00-FCL-A160-BT	183028	1
1	Flat connection M10 max. 150 mm²	250	XNH1-FCL-A250	183045	1
	Box terminal 35 - 150 mm²	250	XNH1-FCL-A250-BT	183046	1
2	Flat connection M10 max. 240 mm²	400	XNH2-FCL-A400	183059	1
	Box terminal 95 - 300 mm²	400	XNH2-FCL-A400-BT	183060	1
3	Flat connection M10 max. 300 mm²	630	XNH3-FCL-A630	183073	1
	Box terminal 95 - 300 mm²	630	XNH3-FCL-A630-BT	183074	1

Fuse Control FCE
3-pole for mounting plate

vt02416

Size	Type of connection	I_e (A)	Type designation	Article No.	Pack (pcs.)
00	Flat connection M8 max. 95 mm²	160	XNH00-FCE-A160	183029	1
	Box terminal 1.5 - 95 mm²	160	XNH00-FCE-A160-BT	183030	1
1	Flat connection M10 max. 150 mm²	250	XNH1-FCE-A250	183047	1
	Box terminal 35 - 150 mm²	250	XNH1-FCE-A250-BT	183048	1
2	Flat connection M10 max. 240 mm²	400	XNH2-FCE-A400	183061	1
	Box terminal 95 - 300 mm²	400	XNH2-FCE-A400-BT	183062	1
3	Flat connection M10 max. 300 mm²	630	XNH3-FCE-A630	183075	1
	Box terminal 95 - 300 mm²	630	XNH3-FCE-A630-BT	183076	1

1-pole for mounting plate

Size	Type of connection	I_e (A)	Type designation	Article No.	Pack (pcs.)
00	Flat connection M8 max. 95 mm²	160	XNH00-1-A160	183031	1
	Box terminal 1.5 - 95 mm²	160	XNH00-1-A160-BT	183032	1
1	Flat connection M10 max. 150 mm²	250	XNH1-1-A250	183049	1
	Box terminal 35 - 150 mm²	250	XNH1-1-A250-BT	183050	1
3	Flat connection M10 max. 300 mm²	400/630	XNH32-1-A630	183063	1
	Box terminal 95 - 300 mm²	400/630	XNH32-1-A630-BT	183064	1

Fuse Switch Disconnectors XNH…

- Degree of protection IP2XC in operating mode
- According to IEC/EN 60947-3
- AC 690 V / DC 440 V
- Conditional rated short-circuit current 120kA (500V) and 100kA (690V)
- Reaction to fire according to UL 94, self-extinguishing
- Current paths of electrolytic copper, silver-plated
- For fixing on busbars of 60mm (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

vt64215

Size	Type of connection	I_e (A)	Type designation	Article No.	Pack (pcs.)

Basic
3-pole for SASY 60i

vt61915

Size	Type of connection	I_e (A)	Type designation	Article No.	Pack (pcs.)
00	Flat connection M8 max. 95 mm²	160	XNH00-S160	183033	1
	Box terminal 1.5 - 95 mm²	160	XNH00-S160-BT1	183034	1
	Box terminal 1.5 - 95 mm²	160	XNH00-S160-BT2	183035	1
1	Flat connection M10 max. 150 mm²	250	XNH1-S250	183051	1
	Box terminal 35 - 150 mm²	250	XNH1-S250-BT	183052	1
2	Flat connection M10 max. 240 mm²	400	XNH2-S400	183065	1
	Box terminal 95 - 300 mm²	400	XNH2-S400-BT	183066	1
3	Flat connection M10 max. 300 mm²	630	XNH3-S630	183077	1
	Box terminal 95 - 300 mm²	630	XNH3-S630-BT	183078	1

Fuse Control Light
3-pole for SASY 60i

wa_vt14215

Size	Type of connection	I_e (A)	Type designation	Article No.	Pack (pcs.)
00	Flat connection M8 max. 95 mm²	160	XNH00-FCL-S160	183036	1
	Box terminal 1.5 - 95 mm²	160	XNH00-FCL-S160-BT1	183037	1
	Box terminal 1.5 - 95 mm²	160	XNH00-FCL-S160-BT2	183038	1
1	Flat connection M10 max. 150 mm²	250	XNH1-FCL-S250	183053	1
	Box terminal 35 - 150 mm²	250	XNH1-FCL-S250-BT	183054	1
2	Flat connection M10 max. 240 mm²	400	XNH2-FCL-S400	183067	1
	Box terminal 95 - 300 mm²	400	XNH2-FCL-S400-BT	183068	1
3	Flat connection M10 max. 300 mm²	630	XNH3-FCL-S630	183079	1
	Box terminal 95 - 300 mm²	630	XNH3-FCL-S630-BT	183080	1

Fuse Control FCE
3-pole for SASY 60i

vt03016

Size	Type of connection	I_e (A)	Type designation	Article No.	Pack (pcs.)
00	Flat connection M8 max. 95 mm²	160	XNH00-FCE-S160	183039	1
	Box terminal 1.5 - 95 mm²	160	XNH00-FCE-S160-BT1	183040	1
	Box terminal 1.5 - 95 mm²	160	XNH00-FCE-S160-BT2	183041	1
1	Flat connection M10 max. 150 mm²	250	XNH1-FCE-S250	183055	1
	Box terminal 35 - 150 mm²	250	XNH1-FCE-S250-BT	183056	1
2	Flat connection M10 max. 240 mm²	400	XNH2-FCE-S400	183069	1
	Box terminal 95 - 300 mm²	400	XNH2-FCE-S400-BT	183070	1
3	Flat connection M10 max. 300 mm²	630	XNH3-FCE-S630	183081	1
	Box terminal 95 - 300 mm²	630	XNH3-FCE-S630-BT	183082	1

1-pole for SASY 60i

Size	Type of connection	I_e (A)	Type designation	Article No.	Pack (pcs.)
00	Flat connection M8 max. 95 mm²	160	XNH00-1-S160	183042	1

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