

INNOVATION
WITHOUT LIMITATION

Technical Documentation

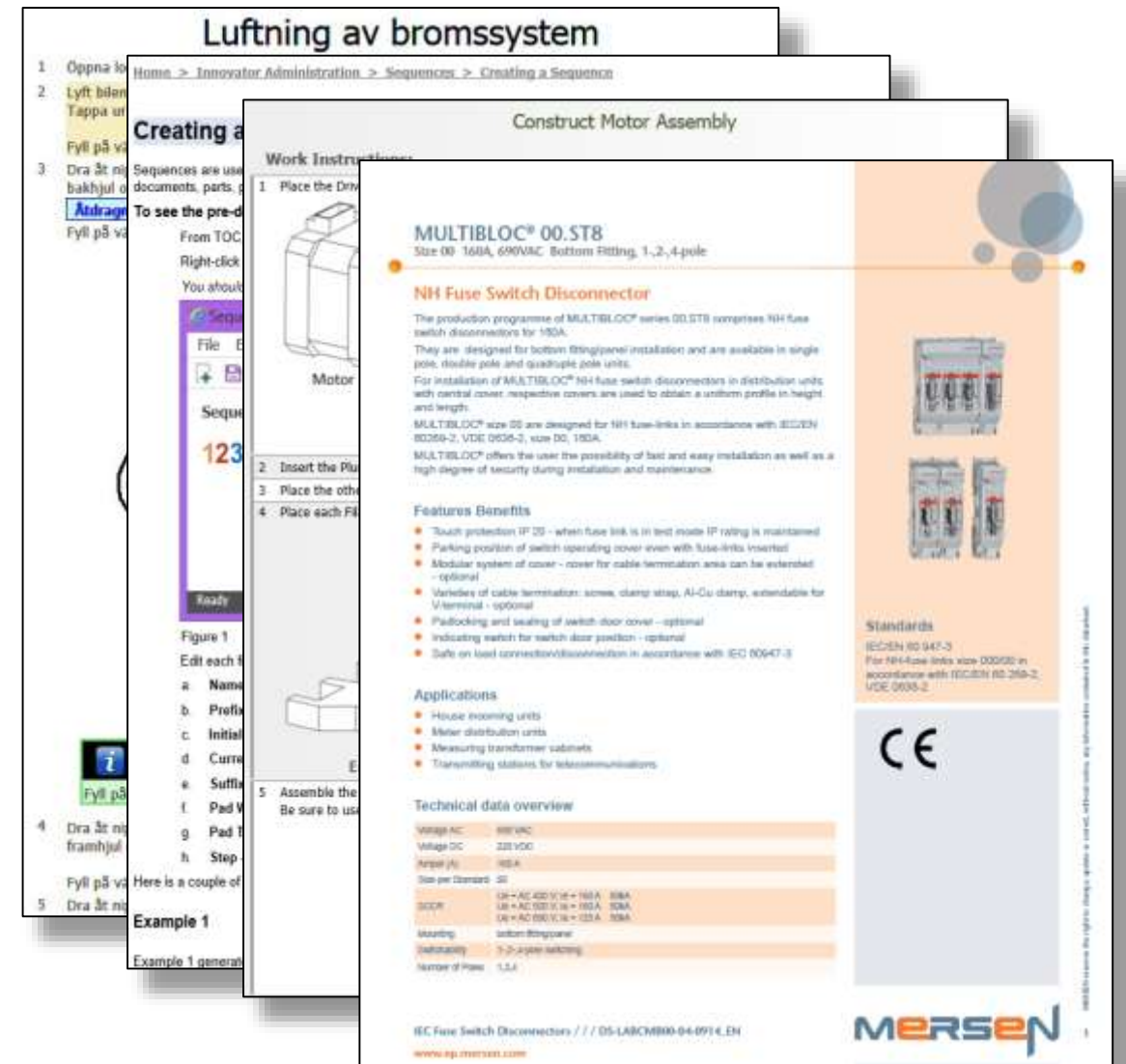
Kevin Richard, Product Manager

Topics

- Solution Overview
 - What are Technical Documents?
 - Technical Documentation Challenges
 - Aras Technical Documentation – Key Features
- Benefits
- Demo
- Q&A

Technical Documentation

- Examples
 - User / System Manuals
 - Training Material / Help Documentation
 - Work Instructions
 - Part Specifications / Catalogs
- Typically feature information about products
- Have well-defined structure
- Increasing trend to consume electronically
- Topics-based / modular



Luftning av bromssystem

1 Oppna k...
2 Lyft bilen...
3 Dra åt ni...

Creating a Sequence

Sequences are used to create documents, parts, p...
To see the pre-d...
From TOC...
Right-click...
You about...

Construct Motor Assembly

Work Instructions

1 Place the Driv...
2 Insert the Plu...
3 Place the oth...
4 Place each Fil...
5 Assemble the...
Be sure to use...

MULTIBLOC® 00.ST8
Size 00 - 160A, 690VAC Bottom fitting, 1,2,4-pole

NH Fuse Switch Disconnecter

The production programme of MULTIBLOC® series 00.ST8 comprises NH fuse switch disconnectors for 150A.

They are designed for bottom fitting/panel installation and are available in single pole, double pole and quadruple pole units.

For installation of MULTIBLOC® NH fuse switch disconnectors in distribution units with central cover, respective covers are used to obtain a uniform profile in height and length.

MULTIBLOC® size 00 are designed for NH fuse-links in accordance with IEC/EN 60269-2, VDE 0636-2, size 00, 150A.

MULTIBLOC® offers the user the possibility of fast and easy installation as well as a high degree of security during installation and maintenance.

Features Benefits

- Touch protection IP 20 - when fuse link is in test mode IP rating is maintained
- Parking position of switch operating cover even with fuse-links inserted
- Modular system of cover - cover for cable termination area can be extended - optional
- Variety of cable termination: screw, clamp strap, Al-Cu clamp, extendable for V-terminal - optional
- Padlocking and sealing of switch door cover - optional
- Indicating switch for switch door position - optional
- Safe on load connection/disconnection in accordance with IEC 60947-3

Applications

- House incoming units
- Motor distribution units
- Measuring transformer cabinets
- Transmitting stations for telecommunications

Technical data overview

Voltage AC	690 VAC
Voltage DC	220 VDC
Rated I _n	150A
Size per standard	00
SCOP	00 = AC 400 V, I _n = 150A 300A 01 = AC 500 V, I _n = 150A 300A 02 = AC 690 V, I _n = 150A 300A
Mounting	bottom fitting/panel
Reliability	3 > 2-pole switching
Number of Poles	1,2,4

Standards
IEC/EN 60947-3
For NH-fuse links size 00/000 in accordance with IEC/EN 60269-2, VDE 0636-2

CE

MERSEN

IEC Fuse Switch Disconnectors // / DS-LABCMB00-04-0914_EN
www.mersen.com

Challenges of Technical Documentation

- Ensuring documents are accurate and complete
 - Regulatory/safety/commercial pressures
- Synchronization with documents as products evolve
- Version/Change management
 - Managing changes between variants
- Maintaining consistency (content and style)
 - Applying changes to existing documents

A New Approach

- *PLM*-based Document Authoring Environment
 - Leverage Aras Innovator's core functionality
 - Web-based, no client installs
 - Embed / reference content from managed Business Items
- Extensible document schema framework
- Extensible document style configuration
- Publishing framework with support for XML, HTML, and PDF



Structured Content

- Defined by a Data Schema, which controls:
 - Types of document content
 - Required vs Optional elements
 - Cardinality
- Enables:
 - Compliance to company Standards
 - Consistency

Tech Document

MakerBot Replicator
Extruder #2954



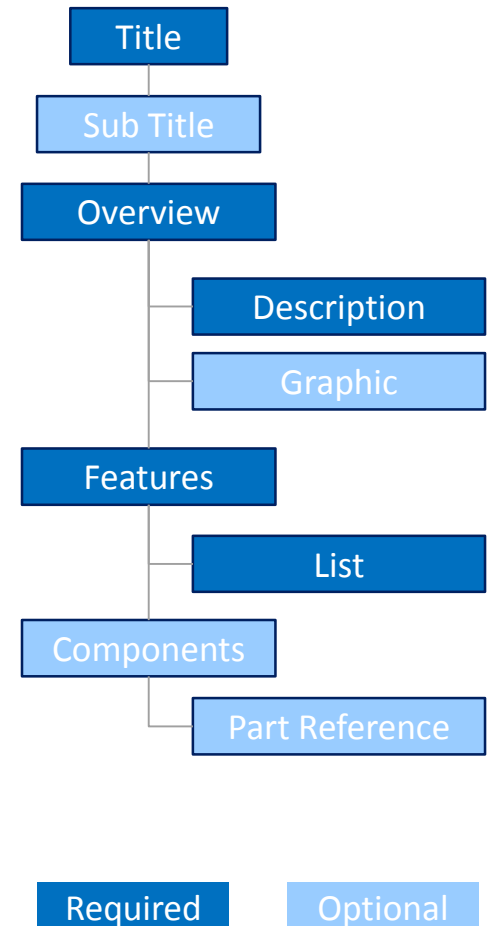
~ Features List ~

- Vivamus a felis. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.
- In porttitor. Donec laoreet nonummy augue.
- Donec ut est in lectus consequat consequat. Etiam eget dui.
- Integer ultrices lobortis eros. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin semper, ante vitae sollicitudin posuere, metus quam laculis nibh, vitae scelerisque nunc massa eget pede.
- Cras non magna vel ante adipiscing rhoncus. Vivamus a mi. Morbi neque. Aliquam erat volutpat.
- Proin tempor, ante vitae sollicitudin posuere, metus quam laculis nibh, vitae scelerisque nunc massa eget pede.
- In fermentum, lorem non cursus porttitor, diam urna accumsan lacus, sed interdum nisi nibh nec rut.

~ Components ~

Item #	Name	Qty	Make / Buy	Description
MP1705	MK7 Thermal Core	2	Make	
MP2607	Cartridge Heater 40W 24V Right Angle Exit	2	Make	
MP0136	Type K Thermocouple	2	Make	

Document Schema



Integrating with Business Items in PLM

- Include both new content and reuse of existing content
- Revision information is maintained with the document

Tech Document

MULTIBLOC® 00.ST8
Size 00 250A, 900VAC Bottom Fitting, 1-2-, 4-pole

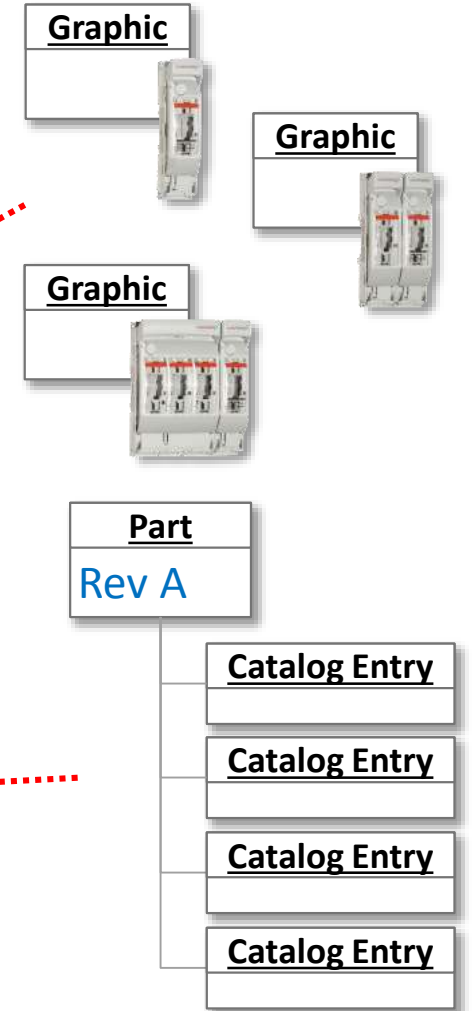
NH Fuse Switch Disconnecter

The production programme of MULTIBLOC® series 00.ST8 comprises NH fuse switch disconnecters for 150A. They are designed for bottom fitting panel installation and are available in single pole, double pole and quadruple pole units. For installation of MULTIBLOC® NH fuse switch disconnecters in distribution units with central cover, respective covers are used to obtain a uniform profile in height and length. MULTIBLOC® size 00 are designed for NH fuse-links in accordance with IEC/EN 60269-2, VDE 0636-2, size 00, 250A. MULTIBLOC® offers the user the possibility of fast and easy installation as well as a high degree of security during installation and maintenance.

Features / Benefits

- Touch protection IP 20 - when fuse links are in test inside IP rating is maintained
- Parking position of switch operating cover even with fuse links inserted
- Modular system of covers - cover for cable termination area can be extended - optional
- Varieties of cable termination: screw, clamp strap, Al-Cu clamp, extendable for V terminal - optional
- Padlocking and sealing of switch door covers - optional
- Indicating switch for switch door position - optional
- Safe on load connection/disconnection in accordance with IEC 60947-3

Catalog Number	Reference Number	# Poles	Cable Termination Components	Design	Weight	Package
L800.053	F220042	1	HS terminal screws	-	0.38	1 piece
L800.054	E302798	1	2 clamp strap Cu-4-17mm	-	0.32	1 piece
L800.114	F102799	1	2 Al/Cu clamp L, 5-70 mm round stranded, 95 mm horizontal solid	-	0.25	1 piece
L800.A17	G1022800	1	2 HS terminal screws	For direct installation on to bus bars with 118 mm spacing	0.29	1 piece



Managing Change

- Change in referenced content may drive change to associated documents
 - As referenced content evolves, Authors can update documents individually, or in batch

Tech Document

MULTIBLOC® 00.ST8
Size 00 250A, 690VAC Bottom Fitting, 1-2-, 4-pole

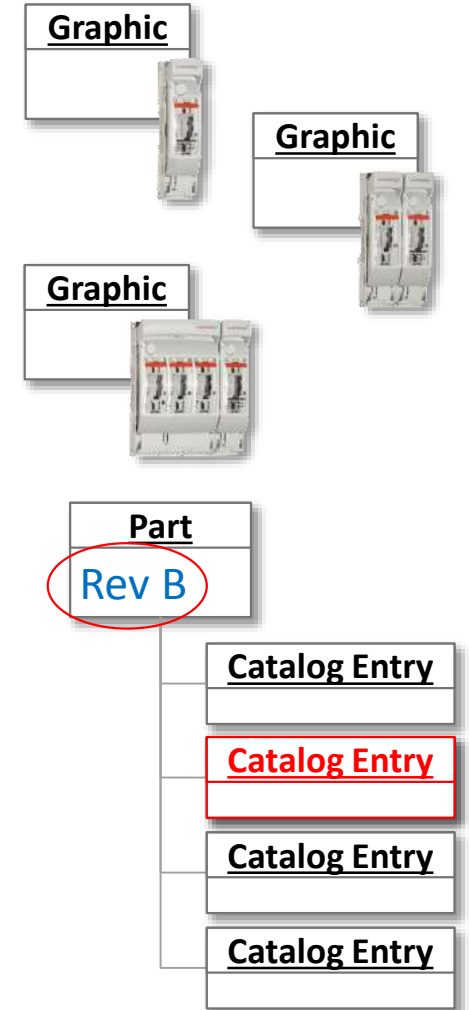
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L800.114	F102799	1	2 Al/Cu clamp L, 5-70 mm round stranded, 95 mm horizontal solid	-	0.25	1 piece
L800.017	G1022800	1	2 HS terminal screws	For direct installation on to bus bars with 118 mm	0.29	1 piece



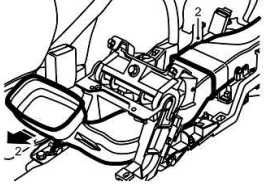
Enabling Document Variability

- Use Options to characterize documents and document content
 - Provides a filter
- User-defined
- Applied to documents and referenced content

Tech Document

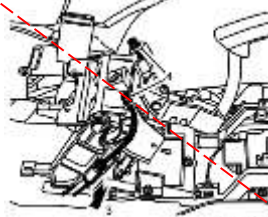
Disassemble
Model: 9-3 *
Model: 9-3 (9440)

1. Remove the floor console
2. Remove the rear air duct



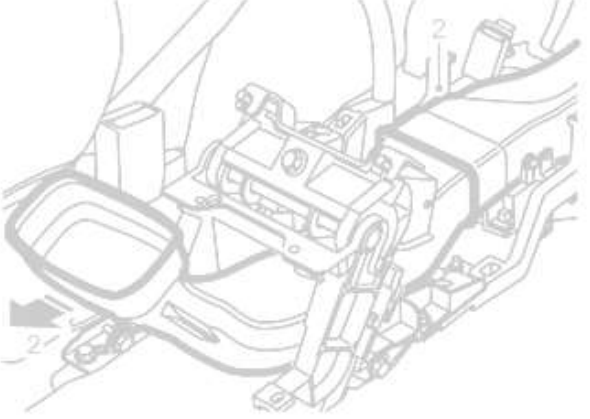
F551R003

3. Loosen the adjustment and unhook the wires



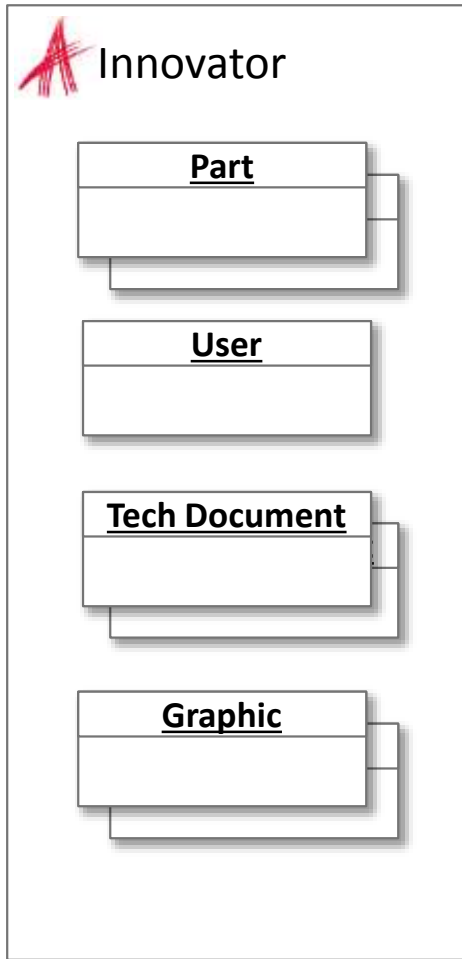
F551R004

4. Remove the bracket from the console
5. Mark the position of the front nut
6. Remove the bolts and nuts that hold the lever mechanism. Lift out the mechanism



F551R003

Content Publishing



Query/
Filters

XML

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for bottom fi
pole, double
MULTIBLOC NH
central cover
in height and
fuse-links in
160A. MULTIBLOC
installation
and maintenanc
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HTML

PDF

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Features Benefits

- Touch protection IP 20 - when fuse link is in test mode IP rating is maintained
- Parking position of switch operating cover even with fuse links inserted
- Modular system of cover - cover for cable termination area can be extended - optional
- Varieties of cable termination: screw, clamp strap, Al-Cu clamp, extendable for V-terminal - optional
- Padlocking and sealing of switch door cover - optional
- Indicating switch for switch door position - optional
- Safe on load connection/disconnection in accordance with IEC 60547-3

Applications

- House incoming units
- Inlet distribution units
- Resonating transformer cabinets
- Transmitting stations for telecommunications

Standards

IEC/EN 60547-3
For NH fuse links size 00/00 in accordance with IEC/EN 60268-2, VDE 0636-2

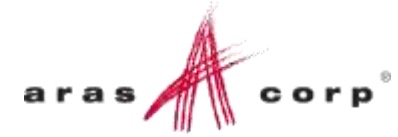
CE

Benefits

- Improved accuracy and completeness
 - Embed / reference content from managed objects in PLM
 - Ex. Parts, Operations, Graphics
 - Version management
 - Change Notification, etc.
- Meet regulatory requirements
 - Enforce standard content and layout via schema
- Increased authoring productivity
 - Structured: Ensures consistency
 - Modular / Topic-based: Enables reuse
- Secure
 - Access Control managed by Workflow/Lifecycle



Product Availability



- Technical Documentation 11 R1 Released Dec. '15
 - Open to Community
 - Subscribers get Export/Publishing capability
 - Installation via new *Aras Update* Application
 - New for SP5 Applications and Beyond...
 - <http://www.aras.com/support/downloads/download.aspx>

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