



IN-LINE FUSE SWITCH DISCONNECTOR 3-POLE SWITCHABLE, SIZE 1 I=250 A, U=690 V AC FLAT CONNECTOR M 10 NEW DESIGN WITH INTEGR.CURRENT TRANSFORMER WITH ELECTRONIC FUSE MONITORING

Figure similar

Model		
Product designation		Fuse switch disconnectors
Design of the product		Mounting onto rail with 185mm busbar center-center spacing
Type of switching contact / double breaking switching contact		No
Design of the safety monitoring		Yes
Design of the load switch / Strip form		Yes
Type of the driving mechanism / motor drive		No
General technical data		
Number of poles		3
Number of poles / Note		3-pole switchable
Type of device		fixed mounting
Size of fuse link		NH1
Continuous current / at 35 °C / Rated value	A	250
cut-off value I <sup>2</sup> t <sub>max</sub> / 500 V	A <sup>2</sup> ·s	780 000
circuit-breaker / Design		3NJ4
Fuse system		LV HRC fuse
Voltage		
Insulation voltage / Rated value	V	1 000
Protection class		
Protection class IP / on the front		IP30
Dissipation		
Active power loss		

- maximum

W	23
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## Electricity

<b>Number of transformers</b>		0
<b>Continuous current</b>		
• Rated value	A	250
• at 40 °C / Rated value	A	237.5
• at 45 °C / Rated value	A	225
• at 50 °C / Rated value	A	212.5
• at 55 °C / Rated value	A	200
• at 60 °C / Rated value	A	187.5
• at 65 °C / Rated value	A	175
• at 70 °C / Rated value	A	162.5
<b>Let-through current / I<sub>c</sub> / maximum permissible</b>		
• 400 V	kA	28
• 500V	kA	28
<b>cut-off value I<sup>2</sup>t<sub>max</sub> / 400 V</b>	A <sup>2</sup> ·s	780 000

## Main circuit

<b>Operating voltage</b>		
• with AC / at 50/60 Hz / Rated value	V	690
• for DC / Rated value	V	440
<b>Operating current</b>		
• at AC-21 B / at 400 V / Rated value	A	250
• at AC-21 B / at 500 V / Rated value	A	250
• at AC-21 B / at 690 V / Rated value	A	250
• at AC-22 B / at 400 V / Rated value	A	250
• at AC-22 B / at 500 V / Rated value	A	250
• at AC-22 B / at 690 V / Rated value	A	200
• at AC-23 B / at 400 V / Rated value	A	250

## Suitability

<b>Suitability for operation</b>		Plant protection
<b>Suitability for use</b>		
• Main switch		No
• switch disconnecter		Yes
• EMERGENCY OFF switch		No
• safety switch		No
• maintenance/repair switch		No

## Product details

<b>Product feature / interlock</b>		No
<b>Product component</b>		
• Trip indicator		No

• Voltage trigger		No
• undervoltage release		No
• undervoltage release with leading contact		No
<b>Product expansion</b>		
• optional		
— motor drive		No
— Voltage trigger		No

## Short circuit

<b>Conditional rated short-circuit current / in utilization category</b>		
• AC-21 B / at 400 V	kA	110
• AC-21 B / at 500 V	kA	110
• AC-22 B / at 400 V	kA	110
• AC-22 B / at 500 V	kA	110

## Connections

Arrangement of electrical connectors / for main current circuit		Flat terminals
Type of electrical connection / for main current circuit		flat connector

## Mechanical Design





<b>Height</b>	mm	662
<b>Width</b>	mm	99.5
<b>Depth</b>	mm	195
<b>mounting position</b>		vertical
<b>Mounting type</b>		Flachanschluss, M 10
<b>Busbar center-to-center spacing</b>	mm	185
<b>Busbar center-to-center spacing</b>		
• 40 mm		No
• 50 mm		No
• 60 mm		No
• 100 mm		No
• 185 mm		Yes

## Environmental conditions

<b>Ambient temperature</b>		
• during operation / minimum	°C	-25
• during operation / maximum	°C	55

## Certificates

<b>Equipment marking</b>		
• acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q

General Product Approval			Declaration of Conformity	Test Certificates
 CCC	 GOST		 EG-Konf.	<a href="#">Special Test Certificate</a>

#### Further information

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<http://www.siemens.com/lowvoltage/catalogs>

**Industry Mall (Online ordering system)**

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3NJ41233CF11>

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<http://support.automation.siemens.com/WW/view/en/3NJ41233CF11/all>

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3NJ41233CF11](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NJ41233CF11)

**CAX-Online-Generator**

<http://www.siemens.com/cax>

**Tender specifications**

<http://ausschreibungstexte.siemens.com/tiplv>

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