

**MÁSTER UNIVERSITARIO EN  
INGENIERÍA INDUSTRIAL**

**ANEXO VI.IV**

***SELECTIVIDAD ENTRE PROTECCIONES:  
SCHNEIDER TOOL***

<b>Estudiante</b>	<i>Rodríguez, Rincón, Yeray</i>
<b>Director</b>	<i>Uriondo, Arrue, Felipe</i>
<b>Departamento</b>	<b>Ingeniería Eléctrica</b>
<b>Curso académico</b>	<i>2020-2021</i>

*Bilbao, 21/09/2021*

Yeray Rodríguez

## **Selectivity report**

Instalación eléctrica para nave industrial de producción  
de carretilla elevadora - MTZ2 25 H3

## Information

---

Name : Yeray  
First name : Rodríguez  
Company : UPV/EHU  
Customer :

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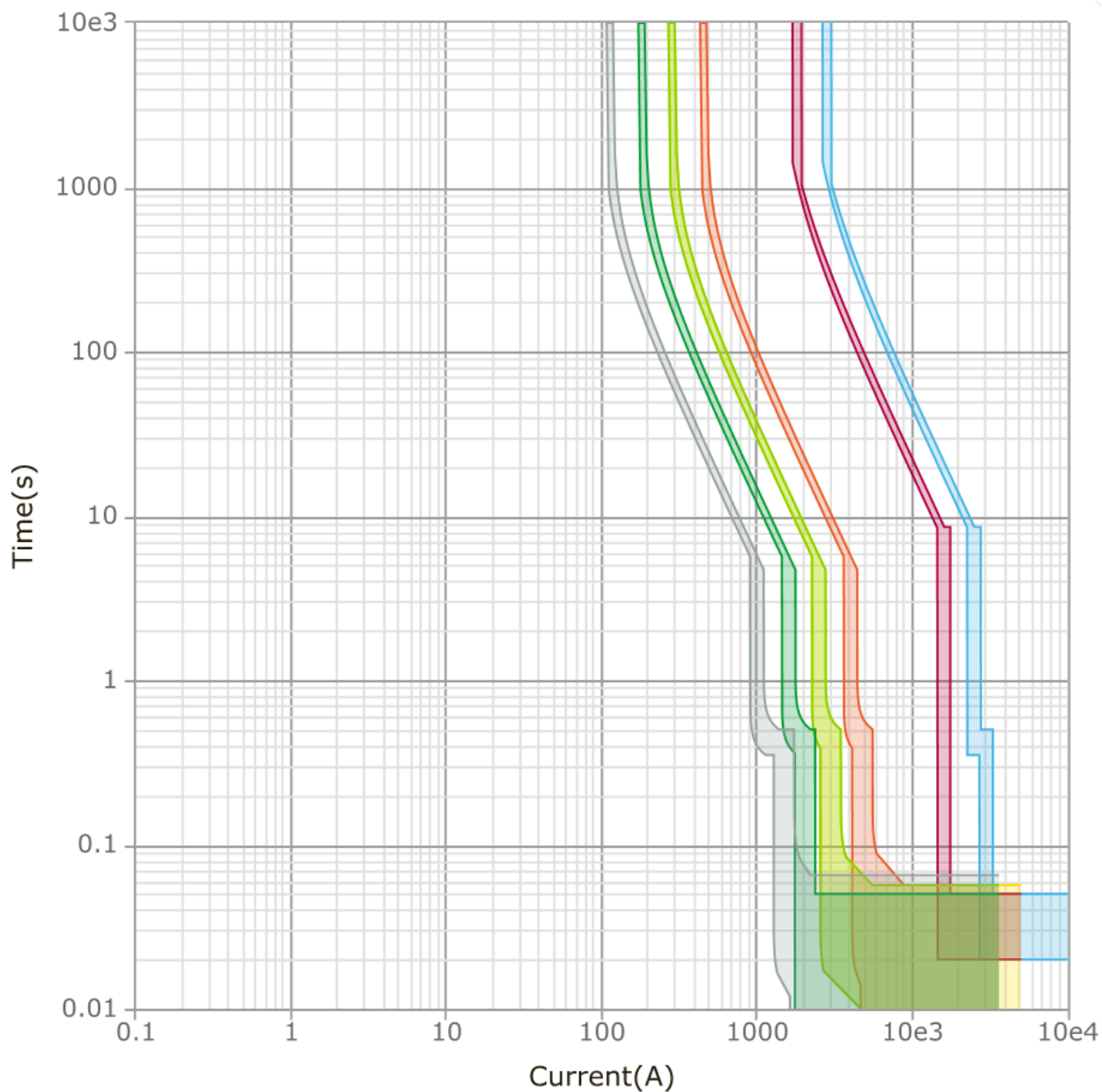
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## Selectivity diagram

Selectivity status :



Project: **Instalación eléctrica para nave industrial de producción de carretilla elevadora - MT22 25**

08/08/2021 10:07:16 AM

**H3**

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Range	Masterpact MTZ2	Masterpact MTZ1	Compact NSX	Compact NSX
Designation/Fuse technology	MTZ2 25H2V	MTZ1 16H2	NSX400F	NSX250N
Rating (A)	2500 A	1600 A	400 A	250 A
Trip unit	Micrologic 5.0 X	Micrologic 2.0 X	Micrologic 5.3 E	Micrologic 5.2 E
Trip unit rating	2500 A	1600 A	400 A	250 A
Trip class				
<b>Long delay settings</b>				
I <sub>r</sub>	2500 A	1600 A	400 A	250 A
T <sub>r</sub>	24 s	24 s	16 s	16 s
<b>Short delay settings</b>				
I <sub>sd</sub>	25000 A	16000 A	4000 A	2500 A
T <sub>sd</sub>	0.4 s	0.05 s	0.4 s	0.4 s
<b>Instantaneous tripping</b>				
I <sub>i</sub>	37500 A	NA	4800 A	3000 A
<b>Selectivity Status</b>	<b>Upstream</b>	<b>selectivity limit: 37500A</b>	<b>Total selectivity</b>	<b>Total selectivity</b>

Range	Compact NSX	Compact NSX	Compact NSX	
Designation	NSX250F	NSX160F	NSX100F	
Rating (A)	250 A	160 A	100 A	
Trip unit	Micrologic 5.2 E	Micrologic 5.2 E	Micrologic 5.2 E	
Trip unit rating	250 A	160 A	100 A	
Trip class				
<b>Long delay settings</b>				
I <sub>r</sub>	250 A	160 A	100 A	
T <sub>r</sub>	16 s	16 s	16 s	
<b>Short delay settings</b>				
I <sub>sd</sub>	2500 A	1600 A	1000 A	

Project: **Instalación eléctrica para nave industrial de producción de carretilla elevadora - MTZ2 25 H3**

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Tsd	0.4 s	0.4 s	0.4 s	
<b>Instantaneous tripping</b>				
li	3000 A	2400 A	1500 A	
<b>Selectivity Status</b>	<b>Total selectivity</b>	<b>Total selectivity</b>	<b>Total selectivity</b>	

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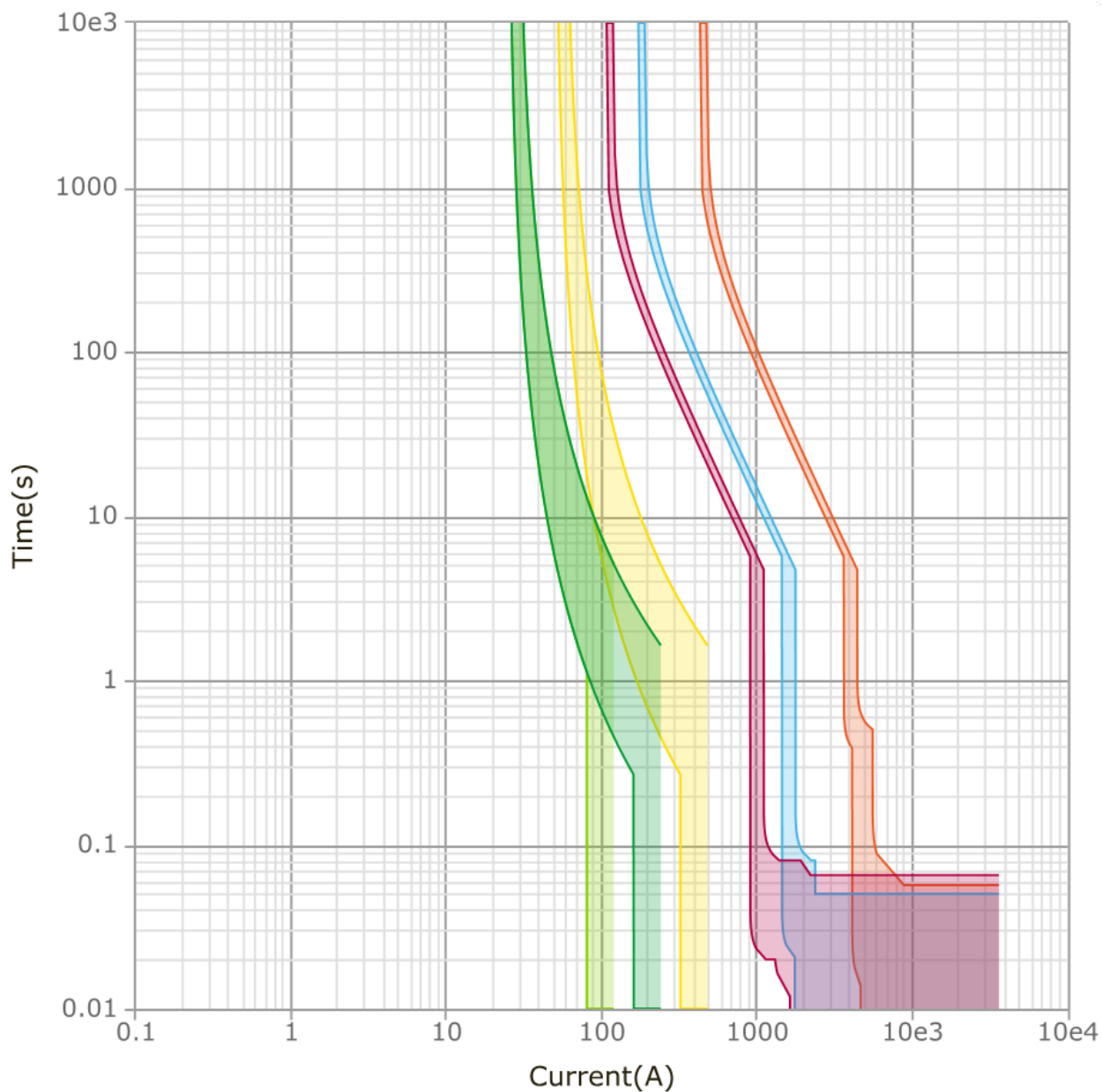
Yeray Rodríguez

## **Selectivity report**

Instalación eléctrica para nave industrial de producción  
de carretilla elevadora - NSX400F I

## Selectivity diagram

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Range	Compact NSX	Compact NSX	Compact NSX	Acti9 iC60
Designation/Fuse technology	NSX400F	NSX160F	NSX100F	iC60N
Rating (A)	400 A	160 A	100 A	50 A
Trip unit	Micrologic 5.3 E	Micrologic 2.2	Micrologic 2.2	C
Trip unit rating	400 A	160 A	100 A	50 A
Trip class				
<b>Long delay settings</b>				
I <sub>r</sub>	400 A	160 A	100 A	50 A
T <sub>r</sub>	16 s	16 s	16 s	NA
<b>Short delay settings</b>				
I <sub>sd</sub>	4000 A	1600 A	1000 A	400 A
T <sub>sd</sub>	0.4 s	0.02 s	0.02 s	NA
<b>Instantaneous tripping</b>				
I <sub>i</sub>	4800 A	2400 A	1500 A	NA
<b>Selectivity Status</b>	<b>Upstream</b>	<b>Total selectivity</b>	<b>Total selectivity</b>	<b>Total selectivity</b>

Range	Acti9 iC60	Acti9 iC60		
Designation	iC60N	iC60N		
Rating (A)	25 A	25 A		
Trip unit	B	C		
Trip unit rating	25 A	25 A		
Trip class				
<b>Long delay settings</b>				
I <sub>r</sub>	25 A	25 A		
T <sub>r</sub>	NA	NA		
<b>Short delay settings</b>				
I <sub>sd</sub>	100 A	200 A		

Project: **Instalación eléctrica para nave industrial de producción de carretilla elevadora - NSX400F**

08/08/2021 10:16:18 AM

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Tsd	NA	NA		
<b>Instantaneous tripping</b>				
li	NA	NA		
<b>Selectivity Status</b>	<b>Total selectivity</b>	<b>Total selectivity</b>		

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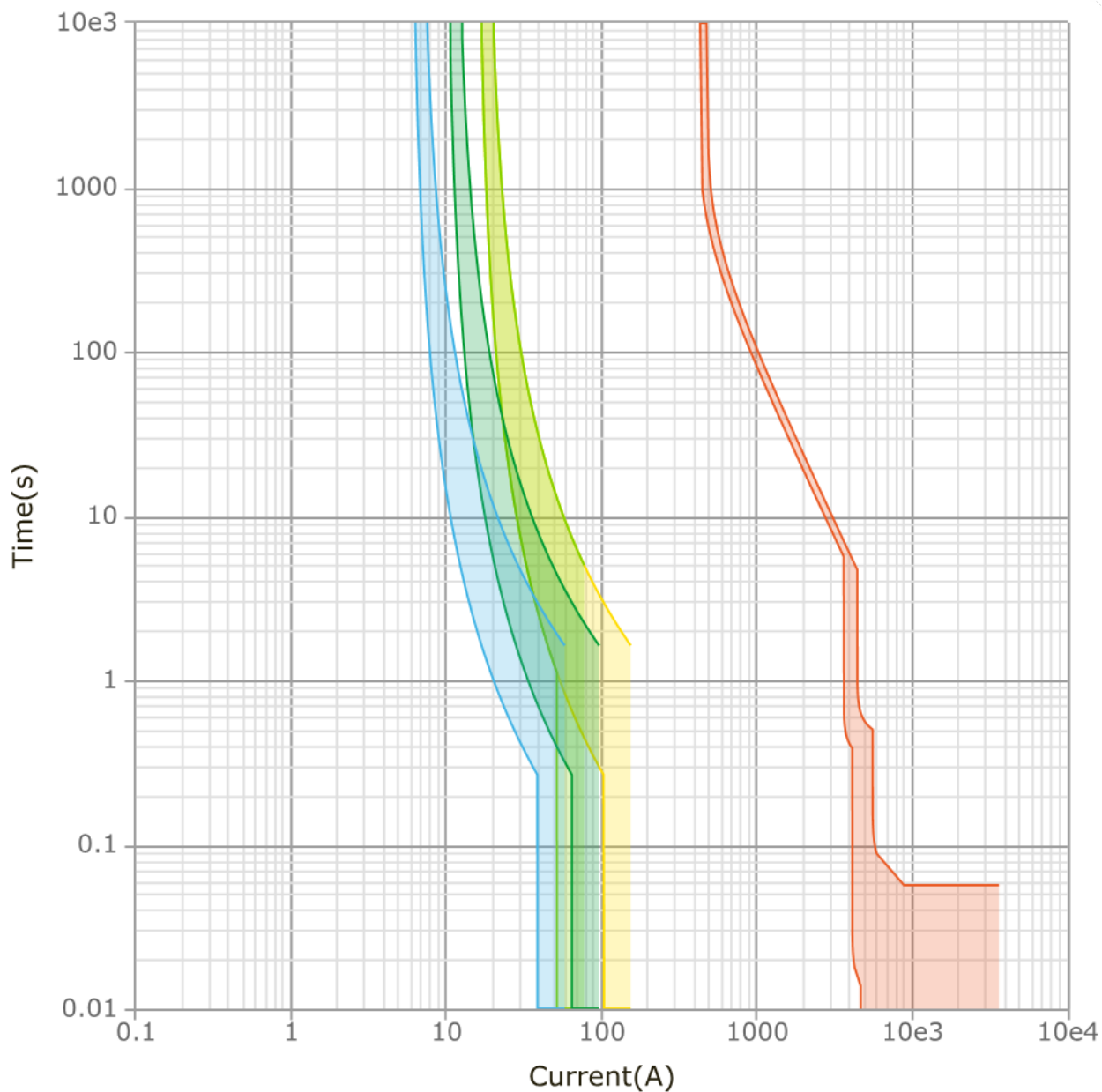
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## Selectivity diagram

Selectivity status :



Range	Compact NSX	Acti9 iC60	Acti9 iC60	Acti9 iC60
Designation/Fuse technology	NSX400F	iC60N	iC60N	iC60N
Rating (A)	400 A	16 A	16 A	10 A
Trip unit	Micrologic 5.3 E	C	B	C
Trip unit rating	400 A	16 A	16 A	10 A
Trip class				
<b>Long delay settings</b>				
I <sub>r</sub>	400 A	16 A	16 A	10 A
T <sub>r</sub>	16 s	NA	NA	NA
<b>Short delay settings</b>				
I <sub>sd</sub>	4000 A	128 A	64 A	80 A
T <sub>sd</sub>	0.4 s	NA	NA	NA
<b>Instantaneous tripping</b>				
I <sub>i</sub>	4800 A	NA	NA	NA
<b>Selectivity Status</b>	<b>Upstream</b>	<b>Total selectivity</b>	<b>Total selectivity</b>	<b>Total selectivity</b>

Range	Acti9 iC60			
Designation	iC60N			
Rating (A)	6 A			
Trip unit	C			
Trip unit rating	6 A			
Trip class				
<b>Long delay settings</b>				
I <sub>r</sub>	6 A			
T <sub>r</sub>	NA			
<b>Short delay settings</b>				
I <sub>sd</sub>	48 A			

Project: **Instalación eléctrica para nave industrial de producción de carretilla elevadora - NSX400F**

08/08/2021 10:18:48 AM

II

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Tsd	NA			
<b>Instantaneous tripping</b>				
li	NA			
<b>Selectivity Status</b>	<b>Total selectivity</b>			

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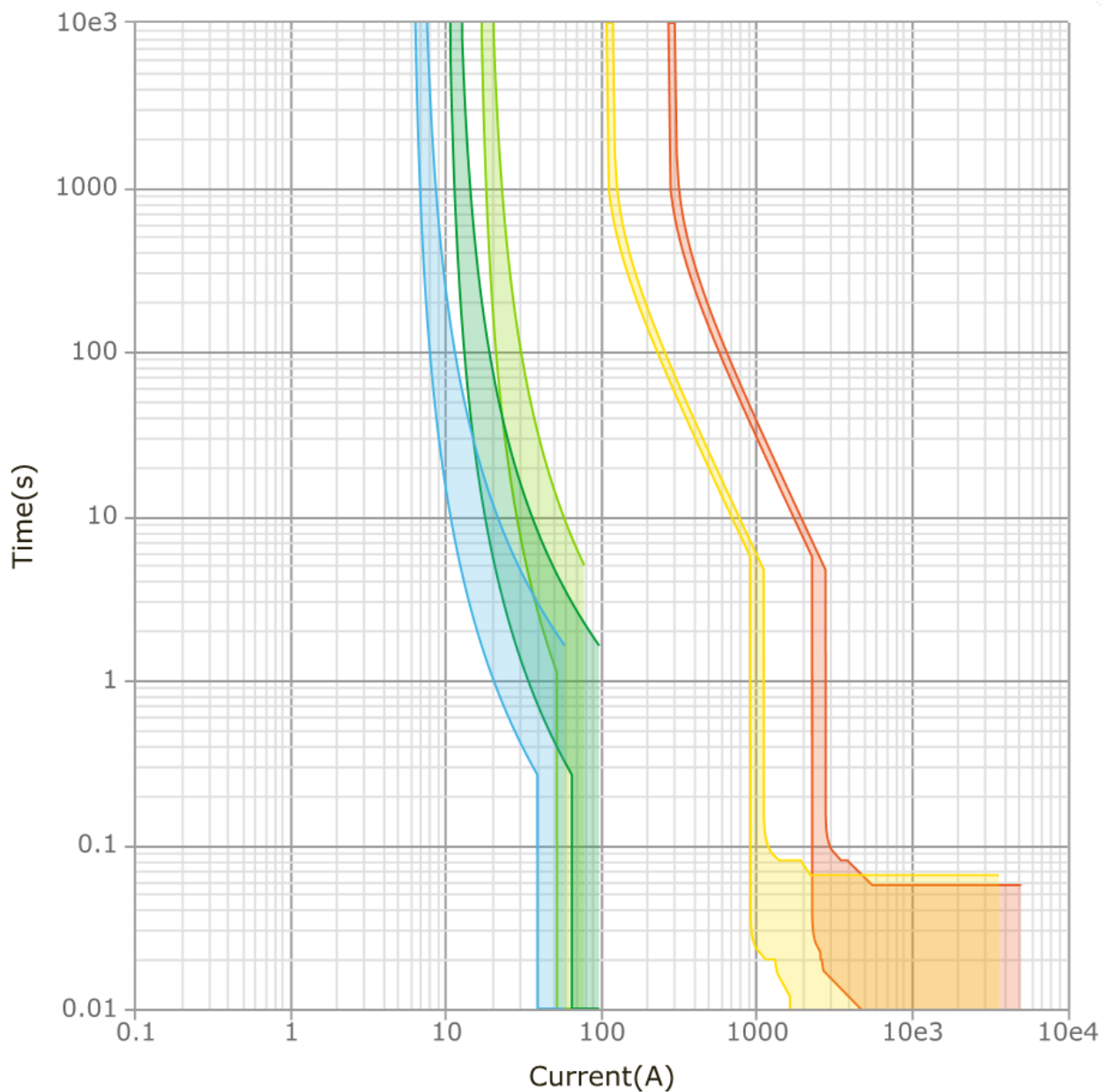
Yeray Rodríguez

## **Selectivity report**

Instalación eléctrica para nave industrial de producción  
de carretilla elevadora - NSX250N

## Selectivity diagram

Selectivity status :



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Range	Compact NSX	Compact NSX	Acti9 iC60	Acti9 iC60
Designation/Fuse technology	NSX250N	NSX100F	iC60N	iC60N
Rating (A)	250 A	100 A	16 A	10 A
Trip unit	Micrologic 5.2 E	Micrologic 2.2	B	C
Trip unit rating	250 A	100 A	16 A	10 A
Trip class				
<b>Long delay settings</b>				
Ir	250 A	100 A	16 A	10 A
Tr	16 s	16 s	NA	NA
<b>Short delay settings</b>				
I <sub>sd</sub>	2500 A	1000 A	64 A	80 A
T <sub>sd</sub>	0.4 s	0.02 s	NA	NA
<b>Instantaneous tripping</b>				
I <sub>i</sub>	3000 A	1500 A	NA	NA
<b>Selectivity Status</b>	<b>Upstream</b>	<b>Total selectivity</b>	<b>Total selectivity</b>	<b>Total selectivity</b>

Range	Acti9 iC60			
Designation	iC60N			
Rating (A)	6 A			
Trip unit	C			
Trip unit rating	6 A			
Trip class				
<b>Long delay settings</b>				
Ir	6 A			
Tr	NA			
<b>Short delay settings</b>				
I <sub>sd</sub>	48 A			

Project: **Instalación eléctrica para nave industrial de producción de carretilla elevadora - NSX250N**

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Tsd	NA			
<b>Instantaneous tripping</b>				
li	NA			
<b>Selectivity Status</b>	<b>Total selectivity</b>			

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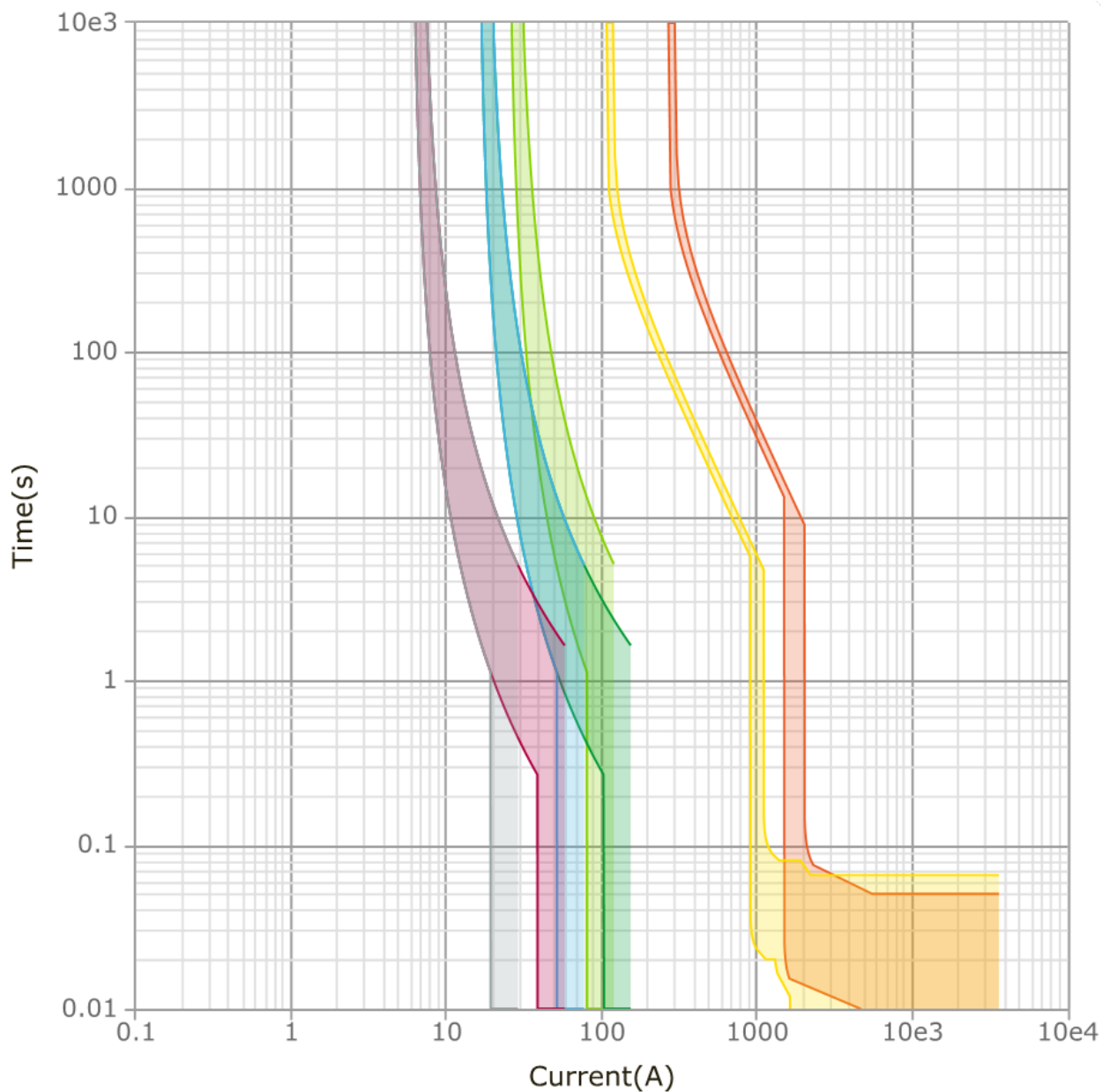
Yeray Rodríguez

## **Selectivity report**

Instalación eléctrica para nave industrial de producción  
de carretilla elevadora - NSX250F

## Selectivity diagram

Selectivity status :



Range	Compact NSX	Compact NSX	Acti9 iC60	Acti9 iC60
Designation/Fuse technology	NSX250F	NSX100F	iC60N	iC60N
Rating (A)	250 A	100 A	25 A	16 A
Trip unit	Micrologic 5.2 E	Micrologic 2.2	B	C
Trip unit rating	250 A	100 A	25 A	16 A
Trip class				
<b>Long delay settings</b>				
I <sub>r</sub>	250 A	100 A	25 A	16 A
T <sub>r</sub>	16 s	16 s	NA	NA
<b>Short delay settings</b>				
I <sub>sd</sub>	2500 A	1000 A	100 A	128 A
T <sub>sd</sub>	0.4 s	0.02 s	NA	NA
<b>Instantaneous tripping</b>				
I <sub>i</sub>	1750 A	1500 A	NA	NA
<b>Selectivity Status</b>	<b>Upstream</b>	<b>Total selectivity</b>	<b>Total selectivity</b>	<b>Total selectivity</b>

Range	Acti9 iC60	Acti9 iC60	Acti9 iC60	
Designation	iC60N	iC60N	iC60N	
Rating (A)	16 A	6 A	6 A	
Trip unit	B	C	B	
Trip unit rating	16 A	6 A	6 A	
Trip class				
<b>Long delay settings</b>				
I <sub>r</sub>	16 A	6 A	6 A	
T <sub>r</sub>	NA	NA	NA	
<b>Short delay settings</b>				
I <sub>sd</sub>	64 A	48 A	24 A	

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Tsd	NA	NA	NA	
<b>Instantaneous tripping</b>				
li	NA	NA	NA	
<b>Selectivity Status</b>	<b>Total selectivity</b>	<b>Total selectivity</b>	<b>Total selectivity</b>	

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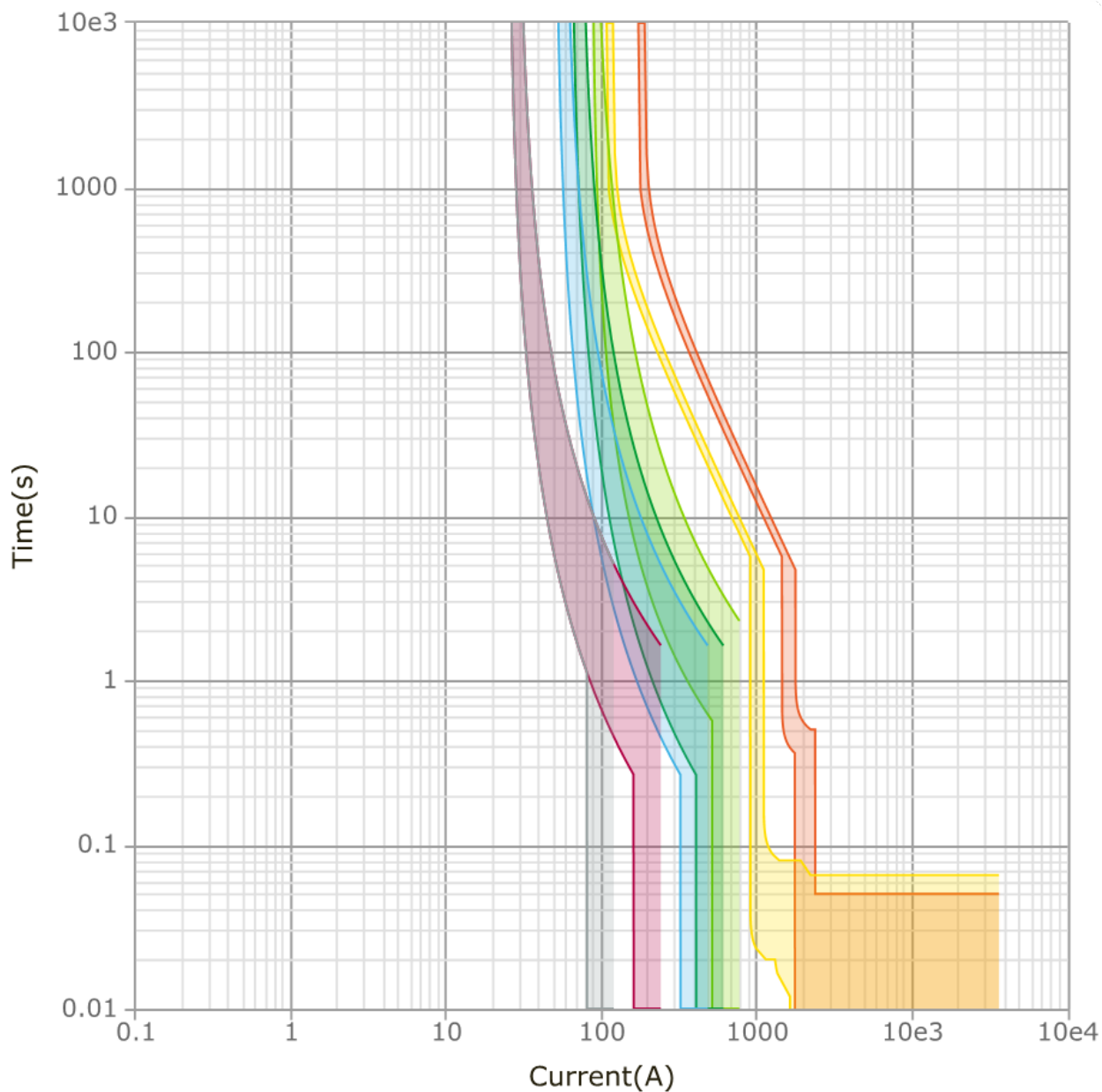
Yeray Rodríguez

## **Selectivity report**

Instalación eléctrica para nave industrial de producción  
de carretilla elevadora - NSX160F I

## Selectivity diagram

Selectivity status :



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Range	Compact NSX	Compact NSX	Acti9 NG125	Acti9 iC60
Designation/Fuse technology	NSX160F	NSX100F	NG125N	iC60N
Rating (A)	160 A	100 A	80 A	63 A
Trip unit	Micrologic 5.2 E	Micrologic 2.2	C	C
Trip unit rating	160 A	100 A	80 A	63 A
Trip class				
<b>Long delay settings</b>				
I <sub>r</sub>	160 A	100 A	80 A	63 A
T <sub>r</sub>	16 s	16 s	NA	NA
<b>Short delay settings</b>				
I <sub>sd</sub>	1600 A	1000 A	640 A	504 A
T <sub>sd</sub>	0.4 s	0.02 s	NA	NA
<b>Instantaneous tripping</b>				
I <sub>i</sub>	2400 A	1500 A	NA	NA
<b>Selectivity Status</b>	<b>Upstream</b>	<b>selectivity limit: 2400A</b>	<b>selectivity limit: 2400A</b>	<b>Total selectivity</b>

Range	Acti9 iC60	Acti9 iC60	Acti9 iC60	
Designation	iC60N	iC60N	iC60N	
Rating (A)	50 A	25 A	25 A	
Trip unit	C	C	B	
Trip unit rating	50 A	25 A	25 A	
Trip class				
<b>Long delay settings</b>				
I <sub>r</sub>	50 A	25 A	25 A	
T <sub>r</sub>	NA	NA	NA	
<b>Short delay settings</b>				
I <sub>sd</sub>	400 A	200 A	100 A	

Project: **Instalación eléctrica para nave industrial de producción de carretilla elevadora - NSX160F**

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Tsd	NA	NA	NA	
<b>Instantaneous tripping</b>				
li	NA	NA	NA	
<b>Selectivity Status</b>	<b>Total selectivity</b>	<b>Total selectivity</b>	<b>Total selectivity</b>	

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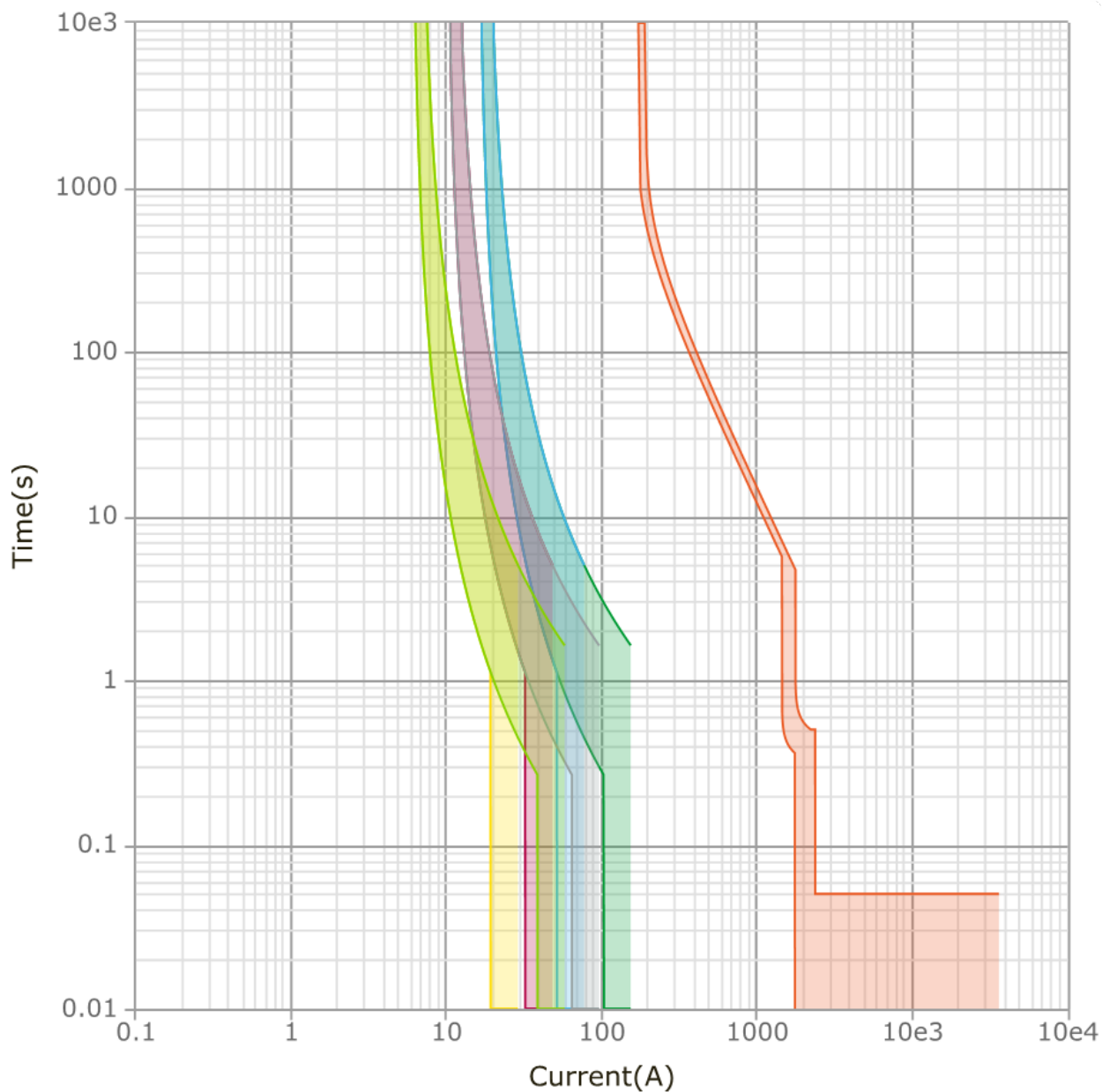
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Range	Compact NSX	Acti9 iC60	Acti9 iC60	Acti9 iC60
Designation/Fuse technology	NSX160F	iC60N	iC60N	iC60N
Rating (A)	160 A	16 A	16 A	10 A
Trip unit	Micrologic 5.2 E	C	B	B
Trip unit rating	160 A	16 A	16 A	10 A
Trip class				
<b>Long delay settings</b>				
Ir	160 A	16 A	16 A	10 A
Tr	16 s	NA	NA	NA
<b>Short delay settings</b>				
I <sub>sd</sub>	1600 A	128 A	64 A	40 A
T <sub>sd</sub>	0.4 s	NA	NA	NA
<b>Instantaneous tripping</b>				
I <sub>i</sub>	2400 A	NA	NA	NA
<b>Selectivity Status</b>	<b>Upstream</b>	<b>Total selectivity</b>	<b>Total selectivity</b>	<b>Total selectivity</b>

Range	Acti9 iC60	Acti9 iC60	Acti9 iC60	
Designation	iC60N	iC60N	iC60N	
Rating (A)	10 A	6 A	6 A	
Trip unit	C	B	C	
Trip unit rating	10 A	6 A	6 A	
Trip class				
<b>Long delay settings</b>				
Ir	10 A	6 A	6 A	
Tr	NA	NA	NA	
<b>Short delay settings</b>				
I <sub>sd</sub>	80 A	24 A	48 A	

Project: **Instalación eléctrica para nave industrial de producción de carretilla elevadora - NSX160F**

08/08/2021 10:45:46 AM

II

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Tsd	NA	NA	NA	
<b>Instantaneous tripping</b>				
li	NA	NA	NA	
<b>Selectivity Status</b>	<b>Total selectivity</b>	<b>Total selectivity</b>	<b>Total selectivity</b>	

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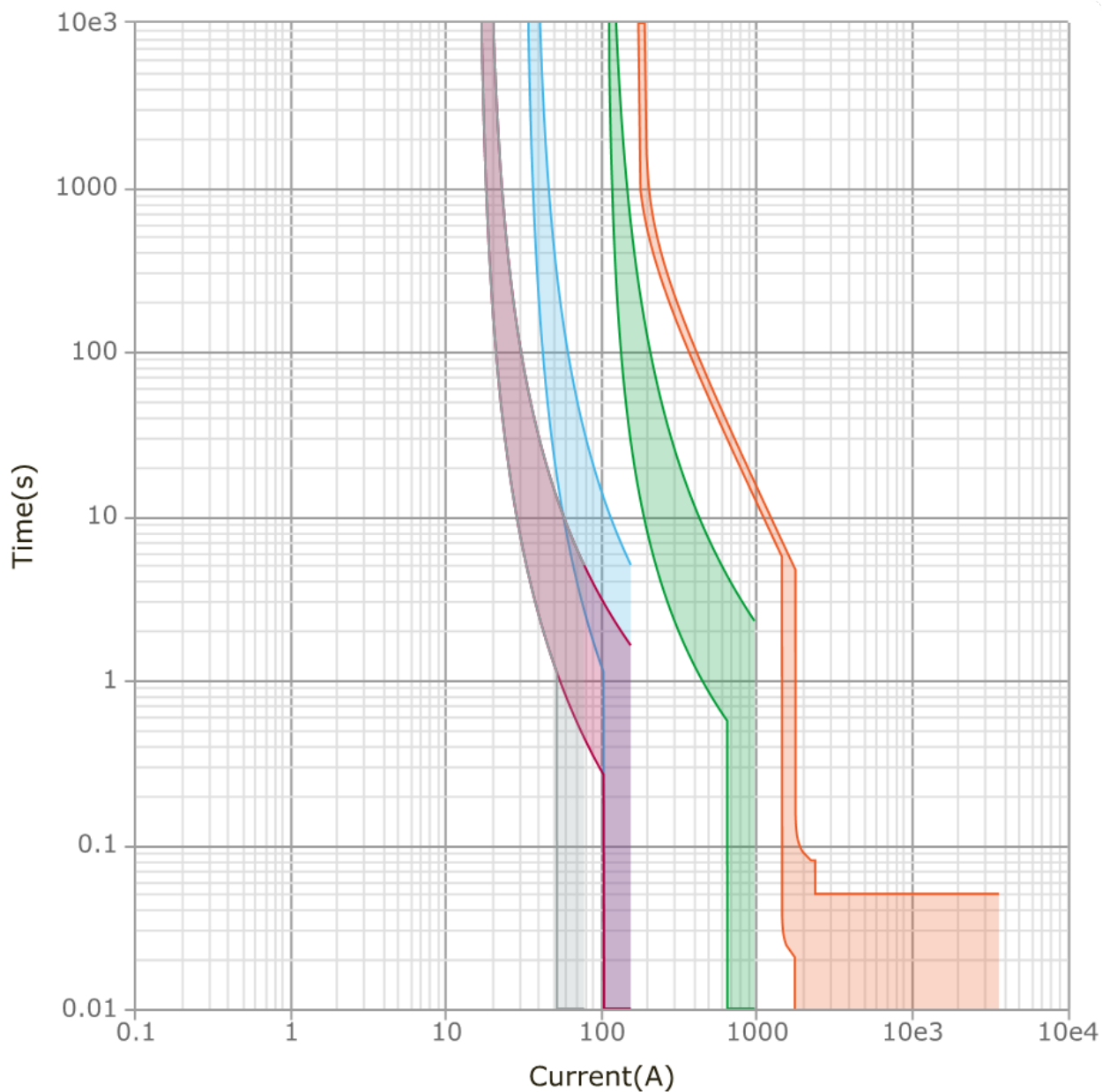
Yeray Rodríguez

## **Selectivity report**

**Instalación eléctrica para nave industrial de producción  
de carretilla elevadora - NSX160F ML2**

## Selectivity diagram

Selectivity status :



Project: **Instalación eléctrica para nave industrial de producción de carretilla elevadora - NSX160F**  
ML2

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Range	Compact NSX	Acti9 NG125	Acti9 iC60	Acti9 iC60
Designation/Fuse technology	NSX160F	NG125N	iC60N	iC60N
Rating (A)	160 A	100 A	32 A	16 A
Trip unit	Micrologic 2.2	C	B	C
Trip unit rating	160 A	100 A	32 A	16 A
Trip class				
<b>Long delay settings</b>				
I <sub>r</sub>	160 A	100 A	32 A	16 A
T <sub>r</sub>	16 s	NA	NA	NA
<b>Short delay settings</b>				
I <sub>sd</sub>	1600 A	800 A	128 A	128 A
T <sub>sd</sub>	0.02 s	NA	NA	NA
<b>Instantaneous tripping</b>				
I <sub>i</sub>	2400 A	NA	NA	NA
<b>Selectivity Status</b>	<b>Upstream</b>	<b>selectivity limit: 2400A</b>	<b>Total selectivity</b>	<b>Total selectivity</b>

Range	Acti9 iC60			
Designation	iC60N			
Rating (A)	16 A			
Trip unit	B			
Trip unit rating	16 A			
Trip class				
<b>Long delay settings</b>				
I <sub>r</sub>	16 A			
T <sub>r</sub>	NA			
<b>Short delay settings</b>				
I <sub>sd</sub>	64 A			

Project: **Instalación eléctrica para nave industrial de producción de carretilla elevadora - NSX160F**

08/08/2021 10:52:08 AM

**ML2**

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Tsd	NA			
<b>Instantaneous tripping</b>				
li	NA			
<b>Selectivity Status</b>	<b>Total selectivity</b>			

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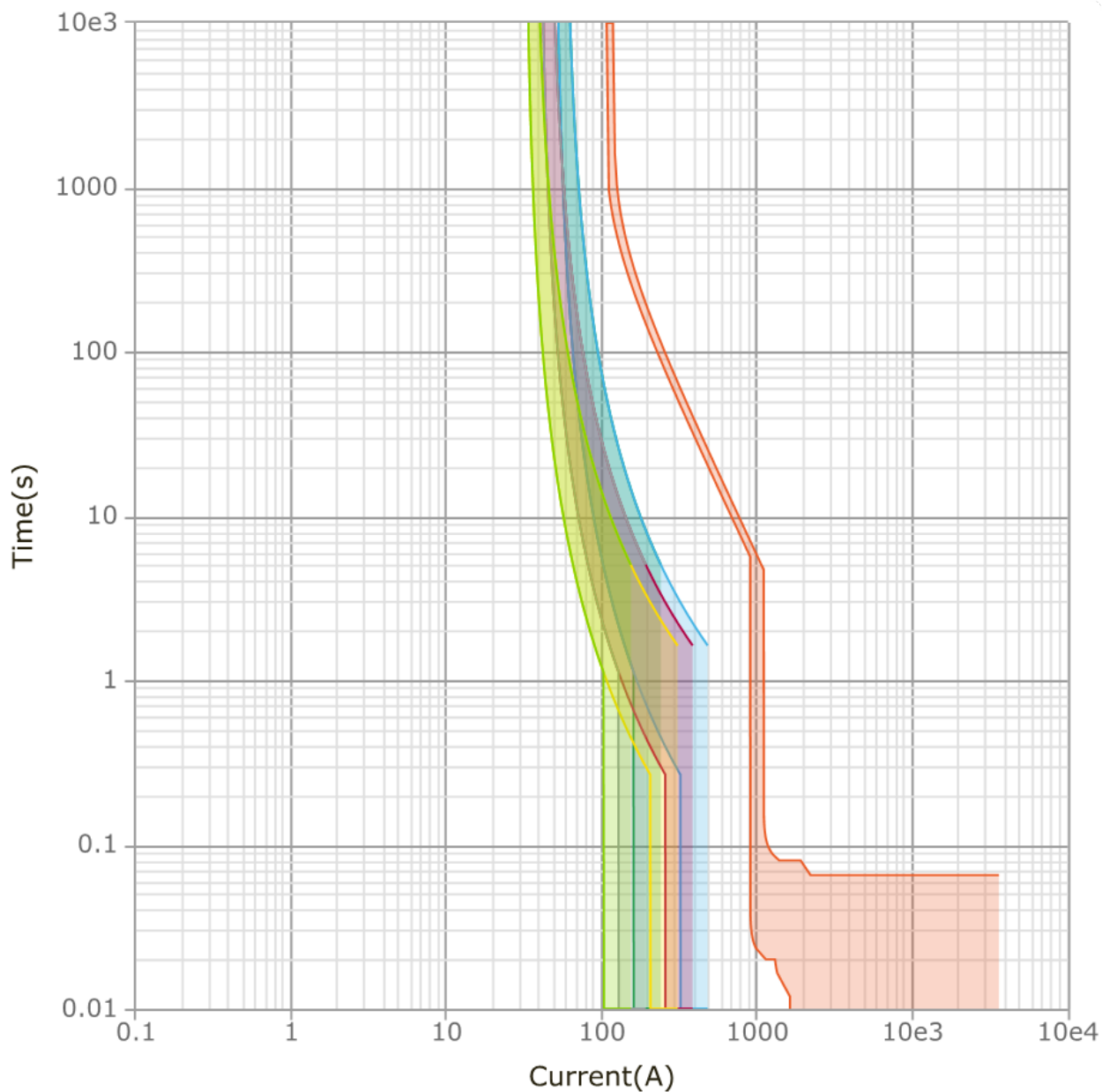
Yeray Rodríguez

## **Selectivity report**

Instalación eléctrica para nave industrial de producción  
de carretilla elevadora - NSX100F ML2

## Selectivity diagram

Selectivity status :



Project: **Instalación eléctrica para nave industrial de producción de carretilla elevadora - NSX100F**  
**ML2**

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Range	Compact NSX	Acti9 iC60	Acti9 iC60	Acti9 iC60
Designation/Fuse technology	NSX100F	iC60N	iC60N	iC60N
Rating (A)	100 A	50 A	50 A	40 A
Trip unit	Micrologic 2.2	B	C	C
Trip unit rating	100 A	50 A	50 A	40 A
Trip class				
<b>Long delay settings</b>				
I <sub>r</sub>	100 A	50 A	50 A	40 A
T <sub>r</sub>	16 s	NA	NA	NA
<b>Short delay settings</b>				
I <sub>sd</sub>	1000 A	200 A	400 A	320 A
T <sub>sd</sub>	0.02 s	NA	NA	NA
<b>Instantaneous tripping</b>				
I <sub>i</sub>	1500 A	NA	NA	NA
<b>Selectivity Status</b>	<b>Upstream</b>	<b>selectivity limit: 6000A</b>	<b>selectivity limit: 6000A</b>	<b>Total selectivity</b>

Range	Acti9 iC60	Acti9 iC60	Acti9 iC60	
Designation	iC60N	iC60N	iC60N	
Rating (A)	40 A	32 A	32 A	
Trip unit	B	C	B	
Trip unit rating	40 A	32 A	32 A	
Trip class				
<b>Long delay settings</b>				
I <sub>r</sub>	40 A	32 A	32 A	
T <sub>r</sub>	NA	NA	NA	
<b>Short delay settings</b>				
I <sub>sd</sub>	160 A	256 A	128 A	

Project: **Instalación eléctrica para nave industrial de producción de carretilla elevadora - NSX100F**  
**ML2**

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Tsd	NA	NA	NA	
<b>Instantaneous tripping</b>				
li	NA	NA	NA	
<b>Selectivity Status</b>	<b>Total selectivity</b>	<b>Total selectivity</b>	<b>Total selectivity</b>	

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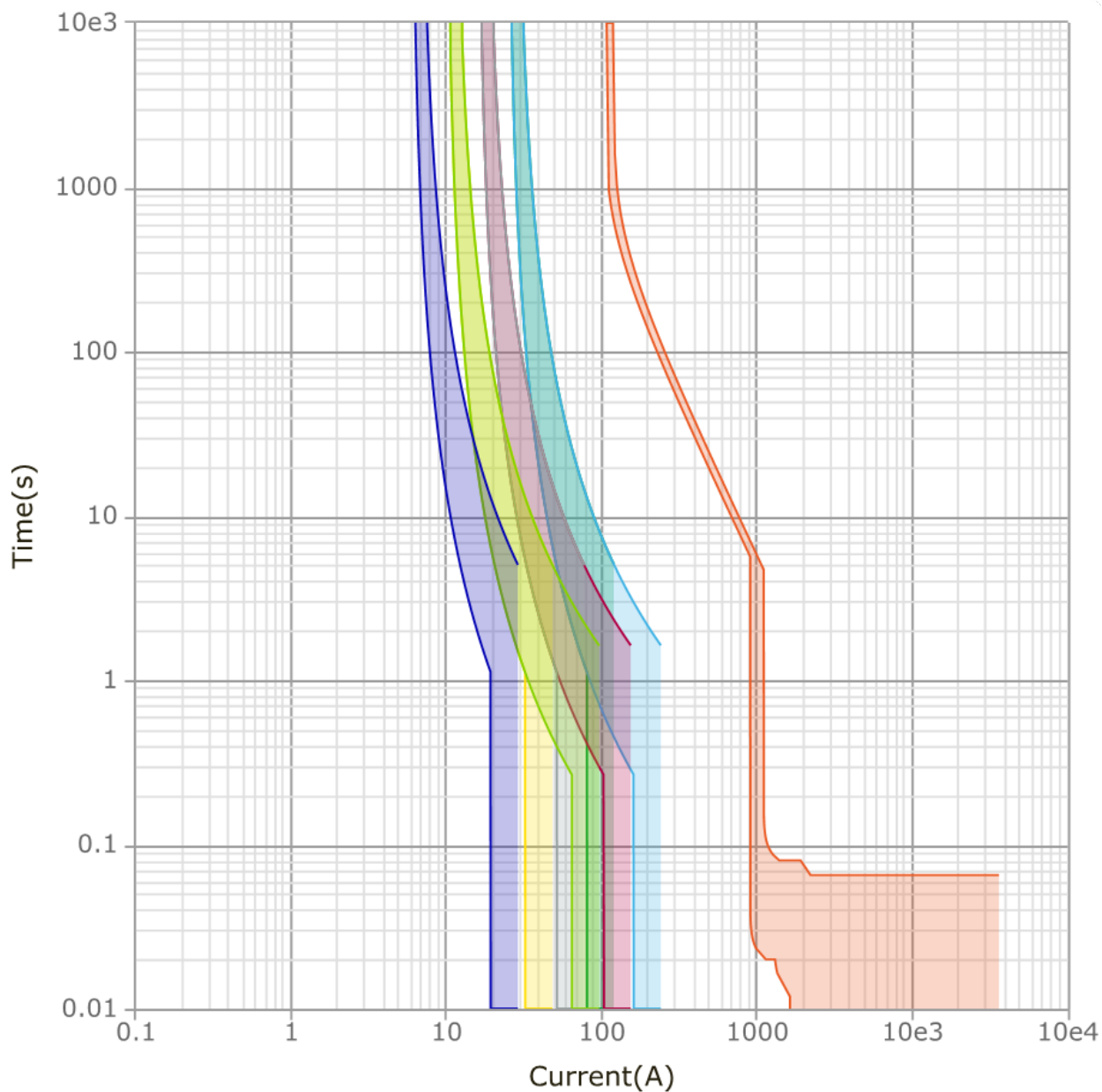
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## Selectivity diagram

Selectivity status :



Project: **Instalación eléctrica para nave industrial de producción de carretilla elevadora - NSX100F**  
**ML2 II**

08/08/2021 11:03:07 AM

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Range	Compact NSX	Acti9 iC60	Acti9 iC60	Acti9 iC60
Designation/Fuse technology	NSX100F	iC60N	iC60N	iC60N
Rating (A)	100 A	25 A	25 A	16 A
Trip unit	Micrologic 2.2	B	C	C
Trip unit rating	100 A	25 A	25 A	16 A
Trip class				
<b>Long delay settings</b>				
Ir	100 A	25 A	25 A	16 A
Tr	16 s	NA	NA	NA
<b>Short delay settings</b>				
I <sub>sd</sub>	1000 A	100 A	200 A	128 A
T <sub>sd</sub>	0.02 s	NA	NA	NA
<b>Instantaneous tripping</b>				
I <sub>i</sub>	1500 A	NA	NA	NA
<b>Selectivity Status</b>	<b>Upstream</b>	<b>Total selectivity</b>	<b>Total selectivity</b>	<b>Total selectivity</b>

Range	Acti9 iC60	Acti9 iC60	Acti9 iC60	Acti9 iC60
Designation	iC60N	iC60N	iC60N	iC60N
Rating (A)	16 A	10 A	10 A	6 A
Trip unit	B	B	C	B
Trip unit rating	16 A	10 A	10 A	6 A
Trip class				
<b>Long delay settings</b>				
Ir	16 A	10 A	10 A	6 A
Tr	NA	NA	NA	NA
<b>Short delay settings</b>				
I <sub>sd</sub>	64 A	40 A	80 A	24 A

Project: **Instalación eléctrica para nave industrial de producción de carretilla elevadora - NSX100F ML2 II**

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Tsd	NA	NA	NA	NA
<b>Instantaneous tripping</b>				
li	NA	NA	NA	NA
<b>Selectivity Status</b>	<b>Total selectivity</b>	<b>Total selectivity</b>	<b>Total selectivity</b>	<b>Total selectivity</b>

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