MÁSTER UNIVERSITARIO EN INGENIERÍA INDUSRIAL

ANEXO VI.IV

SELECTIVIDAD ENTRE PROTECCIONES: SCHNEIDER TOOL

Estudiante Rodríguez, Rincón, Yeray
Director Uriondo, Arrue, Felipe
Departamento Ingeniería Eléctrica

Curso académico 2020-2021

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:

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

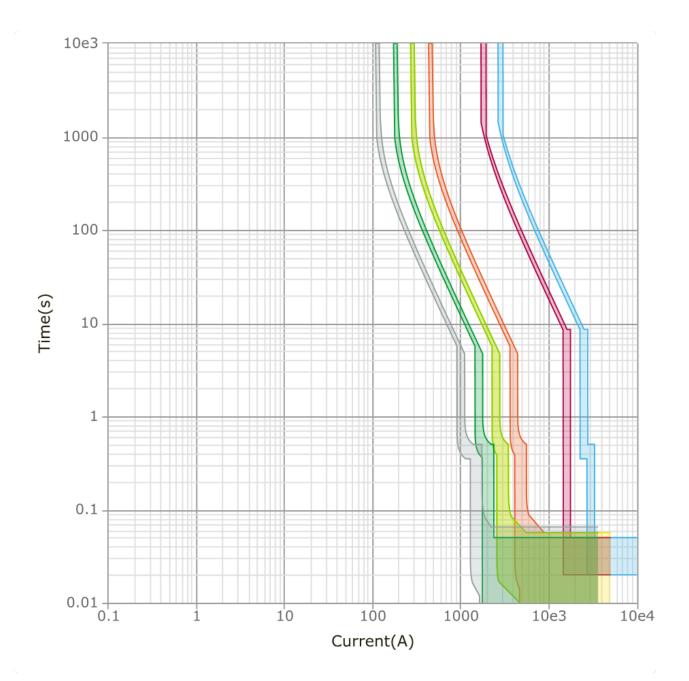
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Range	Masterpact MTZ2	Masterpact MTZ1	Compact NSX	Compact NSX
Designation/Fuse	MTZ2 25H2V	MTZ1 16H2	NSX400F	NSX250N
technology Rating (A)	2500 A	1600 A	400 A	250 A
Trip unit	Micrologic 5.0 X	Micrologic 2.0 X	Micrologic 5.3 E	Micrologic 5.2 E
Trip unit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

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				
Long delay settings				
Ir	250 A	160 A	100 A	
Tr	16 s	16 s	16 s	
Short delay settings		1	1	-
Isd	2500 A	1600 A	1000 A	

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Tsd	0.4 s	0.4 s	0.4 s	
Instantaneous tripping				
li	3000 A	2400 A	1500 A	
Selectivity Status	Total selectivity	Total selectivity	Total selectivity	

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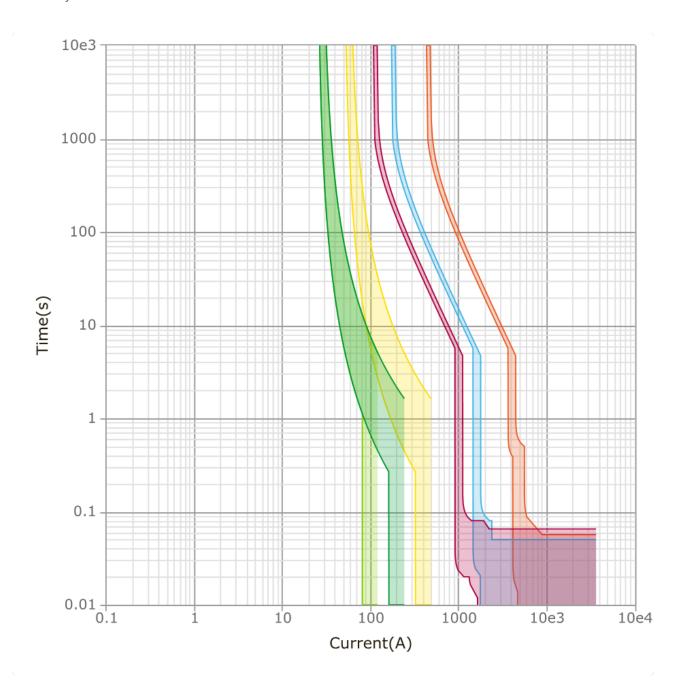
with respect to the relevant specific application or use thereof.

Yeray Rodríguez

Selectivity report

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

Selectivity status:



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

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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	С
Trip unit rating	400 A	160 A	100 A	50 A
Trip class				
Long delay settings				
Ir	400 A	160 A	100 A	50 A
Tr	16 s	16 s	16 s	NA
Short delay settings			l	
Isd	4000 A	1600 A	1000 A	400 A
Tsd	0.4 s	0.02 s	0.02 s	NA
Instantaneous tripping				
li	4800 A	2400 A	1500 A	NA
Selectivity Status	Upstream	Total selectivity	Total selectivity	Total selectivity
Range	Acti9 iC60	Acti9 iC60		
Designation	iC60N	iC60N		
Rating (A)	25 A	25 A		
Trip unit	В	С		
Trip unit rating	25 A	25 A		
Trip class				
Long delay settings				
Ir	25 A	25 A		
Tr	NA	NA		
Short delay settings		ı		
Isd	100 A	200 A		

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Tsd	NA	NA	
Instantaneous tripping			
li	NA	NA	
Selectivity Status	Total selectivity	Total selectivity	

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

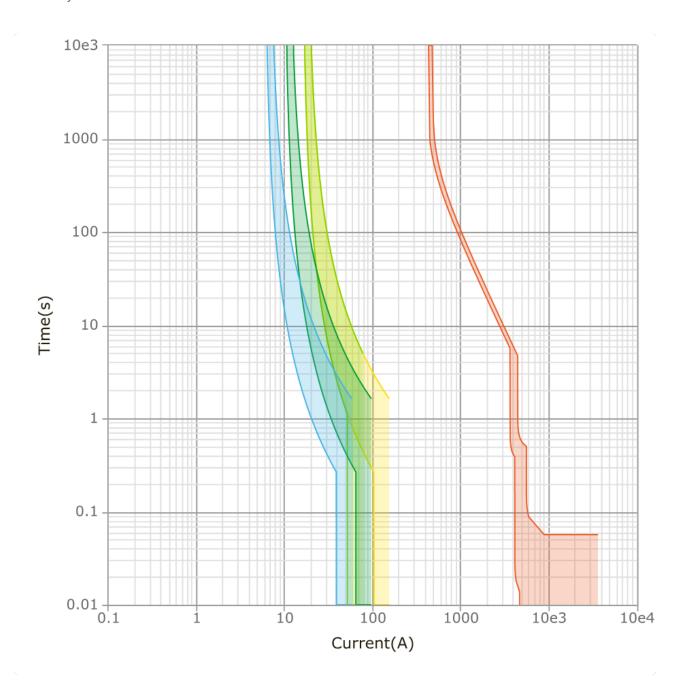
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Selectivity status:



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

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Range	Compact NSX	Acti9 iC60	Acti9 iC60	Acti9 iC60
Designation/Fuse	NSX400F	iC60N	iC60N	iC60N
technology Rating (A)	400 A	16 A	16 A	10 A
Trip unit	Micrologic 5.3 E	С	В	С
Trip unit rating	400 A	16 A	16 A	10 A
Trip class				
Long delay settings				
Ir	400 A	16 A	16 A	10 A
Tr	16 s	NA	NA	NA
Short delay settings	I			I
Isd	4000 A	128 A	64 A	80 A
Tsd	0.4 s	NA	NA	NA
Instantaneous tripping				
	4800 A	NA	NA	NA
li	4000 A	INA	NA	NA
Selectivity Status	Upstream	Total selectivity	Total selectivity	Total selectivity
			Total	
			Total	
Selectivity Status	Upstream		Total	
Selectivity Status Range	Upstream Acti9 iC60		Total	
Selectivity Status Range Designation	Upstream Acti9 iC60 iC60N		Total	
Range Designation Rating (A)	Upstream Acti9 iC60 iC60N 6 A		Total	
Range Designation Rating (A) Trip unit	Upstream Acti9 iC60 iC60N 6 A C		Total	
Range Designation Rating (A) Trip unit Trip unit rating	Upstream Acti9 iC60 iC60N 6 A C		Total	
Range Designation Rating (A) Trip unit Trip unit rating Trip class	Upstream Acti9 iC60 iC60N 6 A C		Total	
Range Designation Rating (A) Trip unit Trip unit rating Trip class Long delay settings	Upstream Acti9 iC60 iC60N 6 A C 6 A		Total	
Range Designation Rating (A) Trip unit Trip unit rating Trip class Long delay settings	Upstream Acti9 iC60 iC60N 6 A C 6 A		Total	

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Tsd	NA		
Instantaneous			
tripping			
li	NA		
Selectivity Status	Total selectivity		

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

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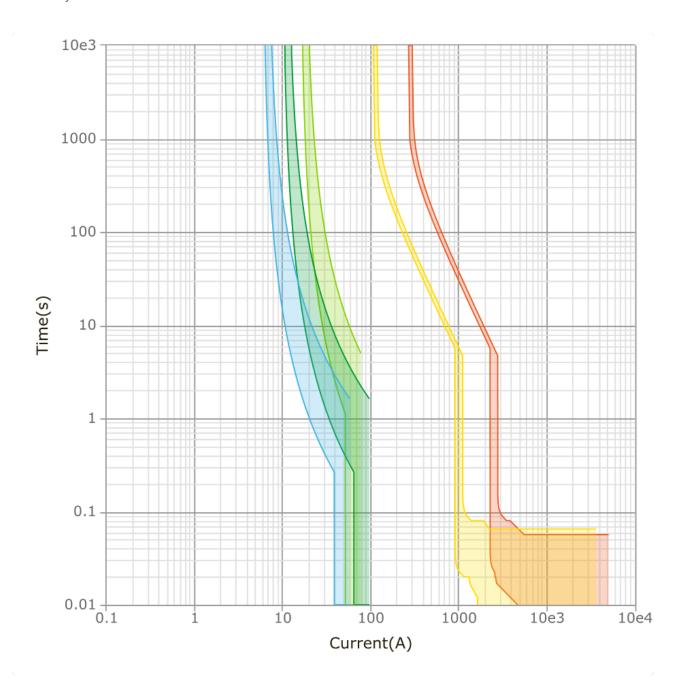
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Yeray Rodríguez

Selectivity report

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

Selectivity status:



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

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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	В	С
Trip unit rating	250 A	100 A	16 A	10 A
Trip class				
Long delay settings				
Ir	250 A	100 A	16 A	10 A
Tr	16 s	16 s	NA	NA
Short delay settings				<u> </u>
Isd	2500 A	1000 A	64 A	80 A
Tsd	0.4 s	0.02 s	NA	NA
Instantaneous tripping				
li	3000 A	1500 A	NA	NA
"	333371			
Selectivity Status	Upstream	Total selectivity	Total selectivity	Total selectivity
			Total	Total selectivity
			Total	Total selectivity
Selectivity Status	Upstream		Total	Total selectivity
Selectivity Status Range	Upstream Acti9 iC60		Total	Total selectivity
Selectivity Status Range Designation	Upstream Acti9 iC60 iC60N		Total	Total selectivity
Range Designation Rating (A)	Upstream Acti9 iC60 iC60N 6 A		Total	Total selectivity
Range Designation Rating (A) Trip unit	Upstream Acti9 iC60 iC60N 6 A C		Total	Total selectivity
Range Designation Rating (A) Trip unit Trip unit rating	Upstream Acti9 iC60 iC60N 6 A C		Total	Total selectivity
Range Designation Rating (A) Trip unit Trip unit rating Trip class	Upstream Acti9 iC60 iC60N 6 A C		Total	Total selectivity
Range Designation Rating (A) Trip unit Trip unit rating Trip class Long delay settings	Upstream Acti9 iC60 iC60N 6 A C 6 A		Total	Total selectivity
Range Designation Rating (A) Trip unit Trip unit rating Trip class Long delay settings	Upstream Acti9 iC60 iC60N 6 A C 6 A		Total	Total selectivity

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Selectivity Status	Total selectivity		
li	NA		
Instantaneous tripping			
Tsd	NA		

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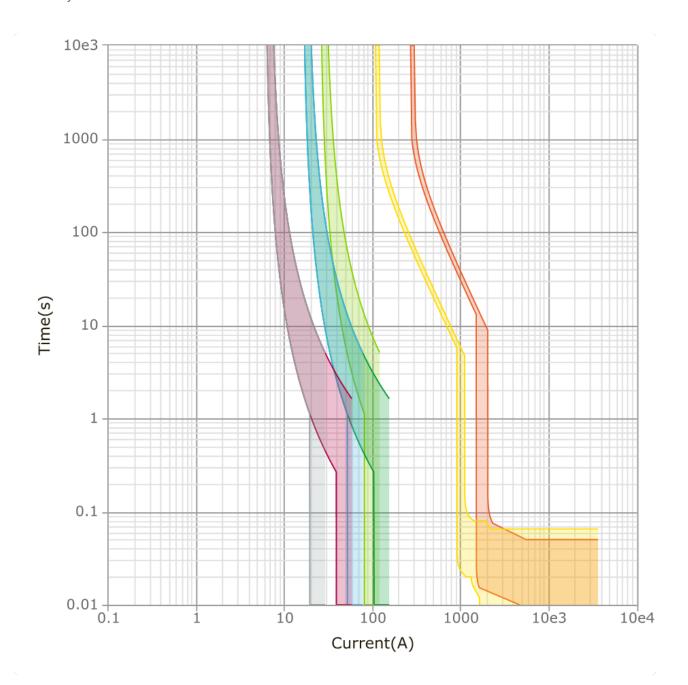
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Selectivity report

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

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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	В	С
Trip unit rating	250 A	100 A	25 A	16 A
Trip class				
Long delay settings				
Ir	250 A	100 A	25 A	16 A
Tr	16 s	16 s	NA	NA
Short delay settings	<u> </u>			<u> </u>
Isd	2500 A	1000 A	100 A	128 A
Tsd	0.4 s	0.02 s	NA	NA
Instantaneous tripping				I
li	1750 A	1500 A	NA	NA
Selectivity Status	Upstream	Total selectivity	Total selectivity	Total selectivity
Range	Acti9 iC60	Acti9 iC60	Acti9 iC60	
Designation	iC60N	iC60N	iC60N	
Designation Rating (A)	iC60N 16 A	iC60N 6 A	iC60N 6 A	
Rating (A)	16 A	6 A	6 A	
Rating (A) Trip unit	16 A B	6 A C	6 A B	
Rating (A) Trip unit Trip unit rating	16 A B	6 A C	6 A B	
Rating (A) Trip unit Trip unit rating Trip class	16 A B	6 A C	6 A B	
Rating (A) Trip unit Trip unit rating Trip class Long delay settings	16 A B 16 A	6 A C 6 A	6 A B 6 A	
Rating (A) Trip unit Trip unit rating Trip class Long delay settings Ir	16 A B 16 A	6 A C 6 A	6 A B 6 A	

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Tsd	NA	NA	NA	
Instantaneous tripping				
li	NA	NA	NA	
Selectivity Status	Total selectivity	Total selectivity	Total selectivity	

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

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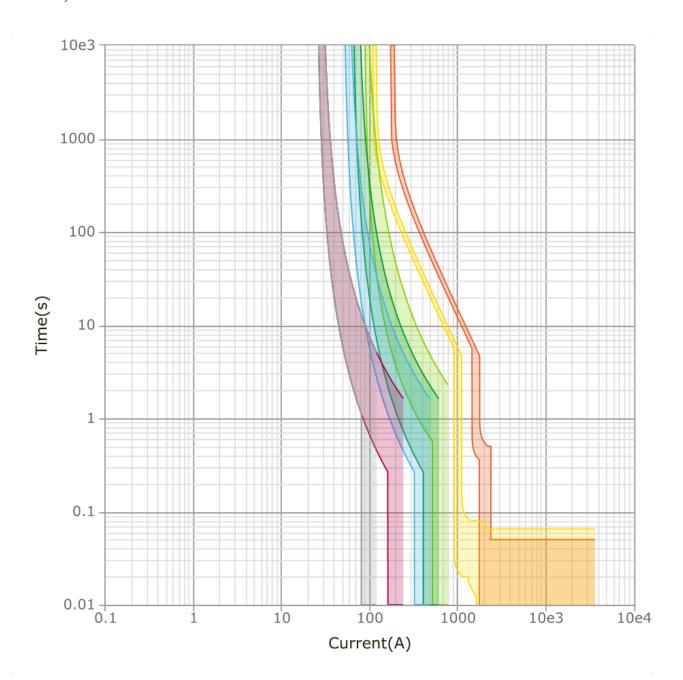
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Selectivity report

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

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

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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	С	С
Trip unit rating	160 A	100 A	80 A	63 A
Trip class				
Long delay settings				
Ir	160 A	100 A	80 A	63 A
Tr	16 s	16 s	NA	NA
Short delay settings				
Isd	1600 A	1000 A	640 A	504 A
Tsd	0.4 s	0.02 s	NA	NA
Instantaneous tripping				
li	2400 A	1500 A	NA	NA
			14114	
Selectivity Status	Upstream	selectivity limit: 2400A	selectivity limit: 2400A	Total selectivity
Selectivity Status	Upstream		limit: 2400A	Total selectivity
Selectivity Status Range	Upstream Acti9 iC60		limit: 2400A Acti9 iC60	Total selectivity
-	·	2400A	limit: 2400A	Total selectivity
Range	Acti9 iC60	Acti9 iC60	Acti9 iC60	Total selectivity
Range Designation	Acti9 iC60 iC60N	Acti9 iC60 iC60N	Acti9 iC60	Total selectivity
Range Designation Rating (A)	Acti9 iC60 iC60N 50 A	2400A Acti9 iC60 iC60N 25 A	Acti9 iC60 iC60N 25 A	Total selectivity
Range Designation Rating (A) Trip unit	Acti9 iC60 iC60N 50 A C	2400A Acti9 iC60 iC60N 25 A C	Acti9 iC60 iC60N 25 A B	Total selectivity
Range Designation Rating (A) Trip unit Trip unit rating	Acti9 iC60 iC60N 50 A C	2400A Acti9 iC60 iC60N 25 A C	Acti9 iC60 iC60N 25 A B	Total selectivity
Range Designation Rating (A) Trip unit Trip unit rating Trip class	Acti9 iC60 iC60N 50 A C	2400A Acti9 iC60 iC60N 25 A C	Acti9 iC60 iC60N 25 A B	Total selectivity
Range Designation Rating (A) Trip unit Trip unit rating Trip class Long delay settings	Acti9 iC60 iC60N 50 A C 50 A	2400A Acti9 iC60 iC60N 25 A C 25 A	Acti9 iC60 iC60N 25 A B 25 A	Total selectivity

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

400 A

Isd

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200 A

100 A

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Tsd	NA	NA	NA	
Instantaneous tripping				
li	NA	NA	NA	
Selectivity Status	Total selectivity	Total selectivity	Total selectivity	

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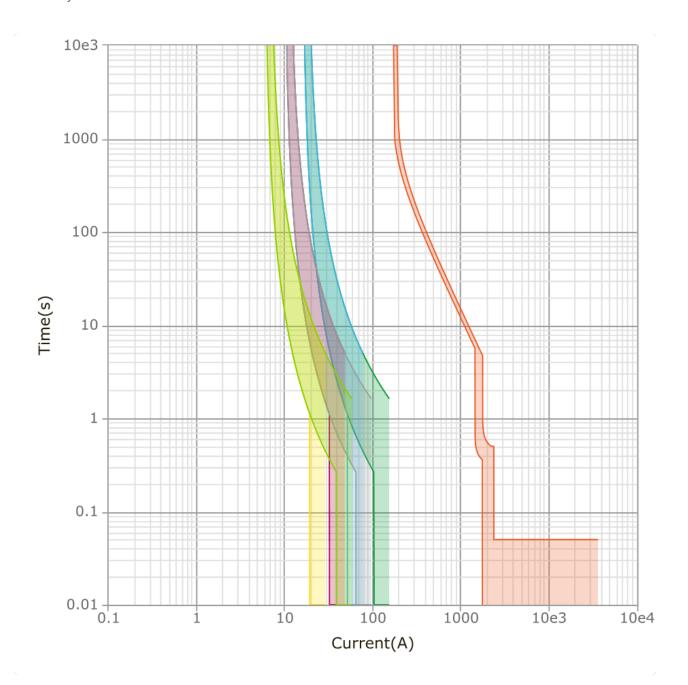
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Selectivity status:



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Range	Compact NSX	Acti9 iC60	Acti9 iC60	Acti9 iC60
Designation/Fuse	NSX160F	iC60N	iC60N	iC60N
technology Rating (A)	160 A	16 A	16 A	10 A
Trip unit	Micrologic 5.2 E	С	В	В
Trip unit rating	160 A	16 A	16 A	10 A
Trip class				
Long delay settings				
Ir	160 A	16 A	16 A	10 A
Tr	16 s	NA	NA	NA
Short delay settings				
Isd	1600 A	128 A	64 A	40 A
Tsd	0.4 s	NA	NA	NA
Instantaneous tripping	<u> </u>			
li	2400 A	NA	NA	NA
Selectivity Status	Upstream	Total selectivity	Total selectivity	Total selectivity
Range	Acti9 iC60	Acti9 iC60	Acti9 iC60	
Designation	iC60N	iC60N	iC60N	
Rating (A)	10 A	6 A	6 A	
Trip unit	С	В	С	
Trip unit rating	10 A	6 A	6 A	
Trip class				
Long delay settings	<u> </u>			<u>I</u>
Ir	10 A	6 A	6 A	
Tr	NA	NA	NA	
Short delay settings	1			1
Isd	80 A	24 A	48 A	

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Selectivity Status	Total selectivity	Total selectivity	Total selectivity	
li	NA	NA	NA	
Instantaneous tripping				
Tsd	NA	NA	NA	

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

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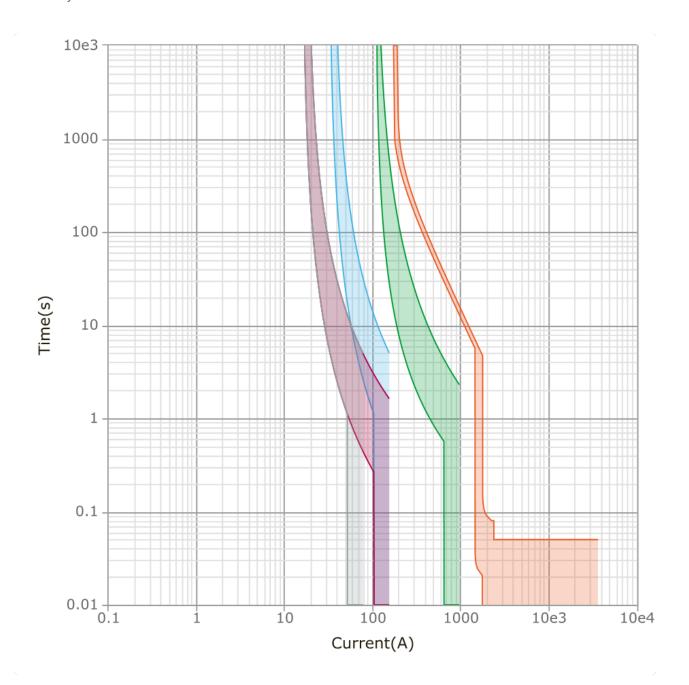
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Yeray Rodríguez

Selectivity report

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

Selectivity status:



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

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Compact NSX	Acti9 NG125	Acti9 iC60	Acti9 iC60
NSX160F	NG125N	iC60N	iC60N
160 A	100 A	32 A	16 A
Micrologic 2.2	С	В	С
160 A	100 A	32 A	16 A
160 A	100 A	32 A	16 A
16 s	NA	NA	NA
1600 A	800 A	128 A	128 A
0.02 s	NA	NA	NA
2400 A	NA	NA	NA
2400 A Upstream	selectivity limit:	Total	NA Total selectivity
	selectivity limit:	Total	
Upstream	selectivity limit:	Total	
Upstream Acti9 iC60	selectivity limit:	Total	
Upstream Acti9 iC60 iC60N	selectivity limit:	Total	
Acti9 iC60 iC60N 16 A	selectivity limit:	Total	
Acti9 iC60 iC60N 16 A B	selectivity limit:	Total	
Acti9 iC60 iC60N 16 A B	selectivity limit:	Total	
Acti9 iC60 iC60N 16 A B	selectivity limit:	Total	
Upstream Acti9 iC60 iC60N 16 A B 16 A	selectivity limit:	Total	
Upstream Acti9 iC60 iC60N 16 A B 16 A	selectivity limit:	Total	
	NSX160F 160 A Micrologic 2.2 160 A 160 A 16 s	NSX160F NG125N 160 A 100 A Micrologic 2.2 C 160 A 100 A 160 A NA 1600 A 800 A	NSX160F NG125N iC60N 160 A 100 A 32 A Micrologic 2.2 C B 160 A 100 A 32 A 160 A NA NA 1600 A 800 A 128 A

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

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Tsd	NA		
Instantaneous tripping			
li	NA		
Selectivity Status	Total selectivity		

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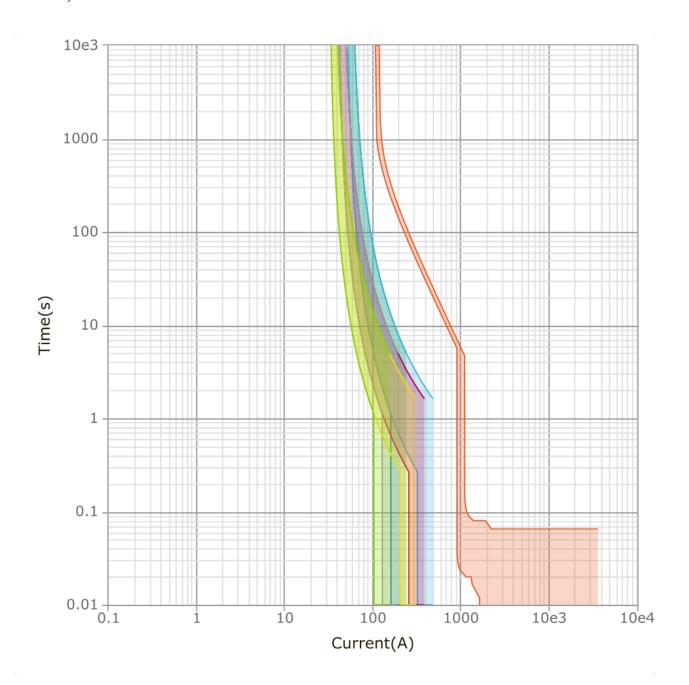
specific user applications.
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Yeray Rodríguez

Selectivity report

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

Selectivity status:



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Range	Compact NSX	Acti9 iC60	Acti9 iC60	Acti9 iC60
Designation/Fuse	NSX100F	iC60N	iC60N	iC60N
technology Rating (A)	100 A	50 A	50 A	40 A
Trip unit	Micrologic 2.2	В	С	С
Trip unit rating	100 A	50 A	50 A	40 A
Trip class				
Long delay settings				
Ir	100 A	50 A	50 A	40 A
Tr	16 s	NA	NA	NA
Short delay settings				
Isd	1000 A	200 A	400 A	320 A
Tsd	0.02 s	NA	NA	NA
Instantaneous tripping				
li	1500 A	NA	NA	NA
Selectivity Status	Upstream	selectivity limit: 6000A	selectivity limit: 6000A	Total selectivity
Range	Acti9 iC60	Acti9 iC60	Acti9 iC60	
Designation	iC60N	iC60N	iC60N	
Rating (A)	40 A	32 A	32 A	
Trip unit	В	С	В	
Trip unit rating	40 A	32 A	32 A	
Trip class				
Long delay settings				
Ir	40 A	32 A	32 A	
Tr	NA	NA	NA	
Short delay settings				
Isd	160 A	256 A	128 A	

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Selectivity Status	Total selectivity	Total selectivity	Total selectivity	
li	NA	NA	NA	
Instantaneous tripping				
Tsd	NA	NA	NA	

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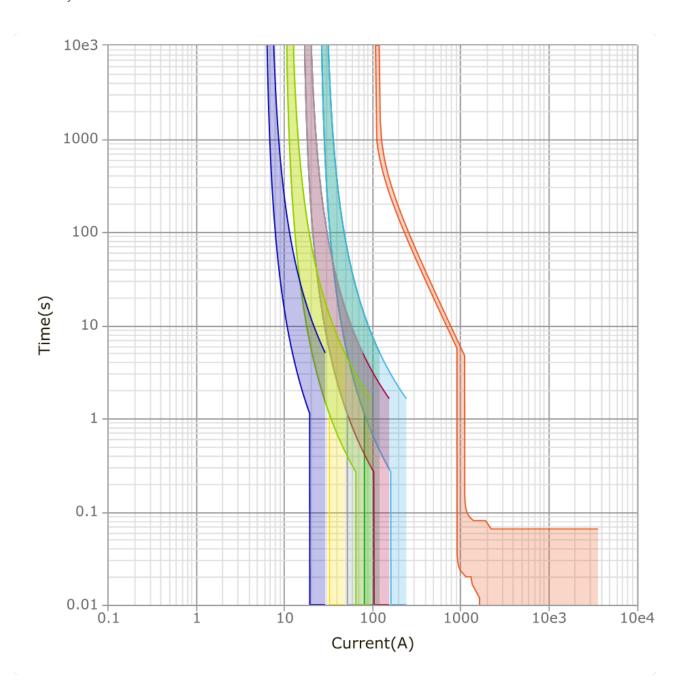
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Selectivity status:



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Range	Compact NSX	Acti9 iC60	Acti9 iC60	Acti9 iC60
Designation/Fuse	NSX100F	iC60N	iC60N	iC60N
technology Rating (A)	100 A	25 A	25 A	16 A
Trip unit	Micrologic 2.2	В	С	С
Trip unit rating	100 A	25 A	25 A	16 A
Trip class				
Long delay settings				
Ir	100 A	25 A	25 A	16 A
Tr	16 s	NA	NA	NA
Short delay settings				
Isd	1000 A	100 A	200 A	128 A
Tsd	0.02 s	NA	NA	NA
Instantaneous tripping	<u> </u>			
li	1500 A	NA	NA	NA
ì				
Selectivity Status	Upstream	Total selectivity	Total selectivity	Total selectivity
Selectivity Status	Upstream	Total selectivity	Total selectivity	Total selectivity
Selectivity Status Range	Upstream Acti9 iC60	Total selectivity Acti9 iC60		Total selectivity Acti9 iC60
	<u>-</u>		selectivity	
Range	Acti9 iC60	Acti9 iC60	Acti9 iC60	Acti9 iC60
Range Designation	Acti9 iC60	Acti9 iC60 iC60N	Acti9 iC60	Acti9 iC60
Range Designation Rating (A)	Acti9 iC60 iC60N 16 A	Acti9 iC60 iC60N 10 A	Acti9 iC60 iC60N 10 A	Acti9 iC60 iC60N 6 A
Range Designation Rating (A) Trip unit	Acti9 iC60 iC60N 16 A	Acti9 iC60 iC60N 10 A B	Acti9 iC60 iC60N 10 A	Acti9 iC60 iC60N 6 A B
Range Designation Rating (A) Trip unit Trip unit rating	Acti9 iC60 iC60N 16 A	Acti9 iC60 iC60N 10 A B	Acti9 iC60 iC60N 10 A	Acti9 iC60 iC60N 6 A B
Range Designation Rating (A) Trip unit Trip unit rating Trip class	Acti9 iC60 iC60N 16 A	Acti9 iC60 iC60N 10 A B	Acti9 iC60 iC60N 10 A	Acti9 iC60 iC60N 6 A B

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64 A

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24 A

ML2 I

Isd

40 A

80 A

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Selectivity Status	Total selectivity	Total selectivity	Total selectivity	Total selectivity
li	NA	NA	NA	NA
Instantaneous tripping				
Tsd	NA	NA	NA	NA

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