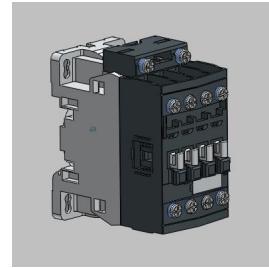




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# CONTENT

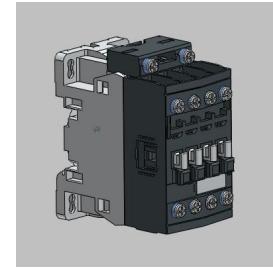
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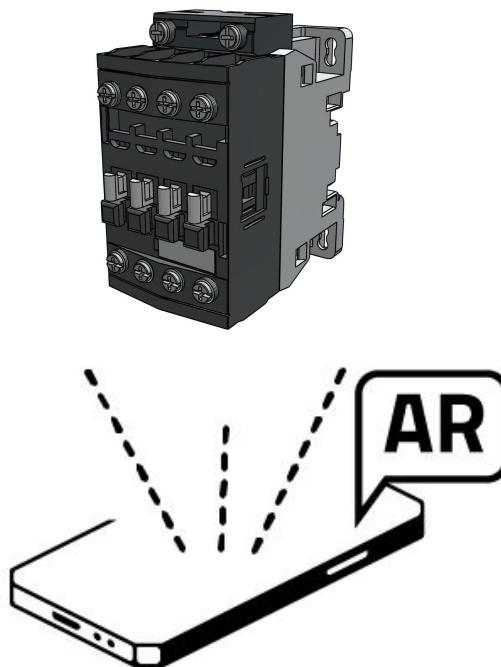


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## AR

Augmented Reality, often shortened to AR, is a technology that blends digital information into the real world. For more information, please click [here](#) or directly try yourself by scanning the QR code with your phone.



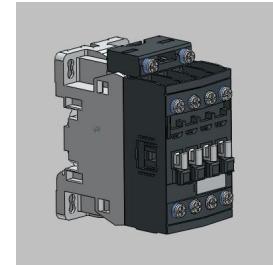
Please scan the QR code above and open on AR-enabled device.

There is a possibility that the configuration will fail. If that happens, please try a different product.



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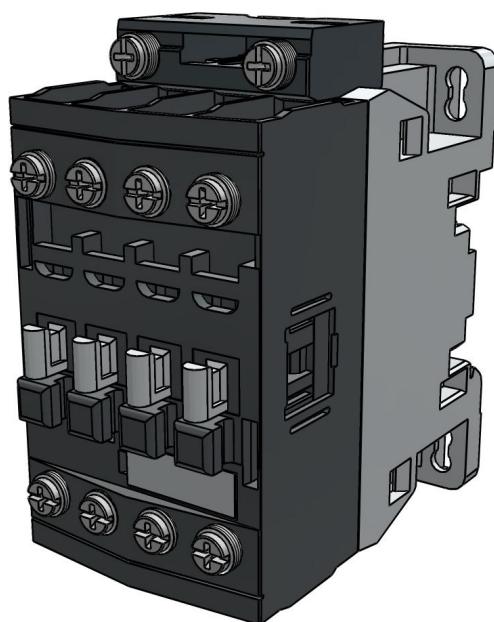
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3D view



## HOW TO ACTIVATE 3D?

To activate the interactive 3D view in Acrobat Reader, you need to select, at the top of the page, **Options** and then **Trust this document**



Moves you toward or away from objects in the scene when you drag vertically. You can also zoom with the hand tool by holding down Shift as you drag.



Moves the model vertically and horizontally only. You can also pan with the hand tool: Ctrl-drag.

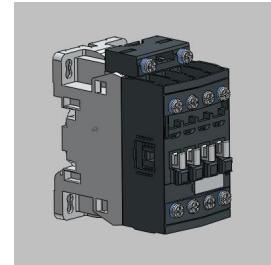


Turns 3D objects around relative to the screen. How the objects move depends on the starting view, where you start dragging and the direction in which you drag.



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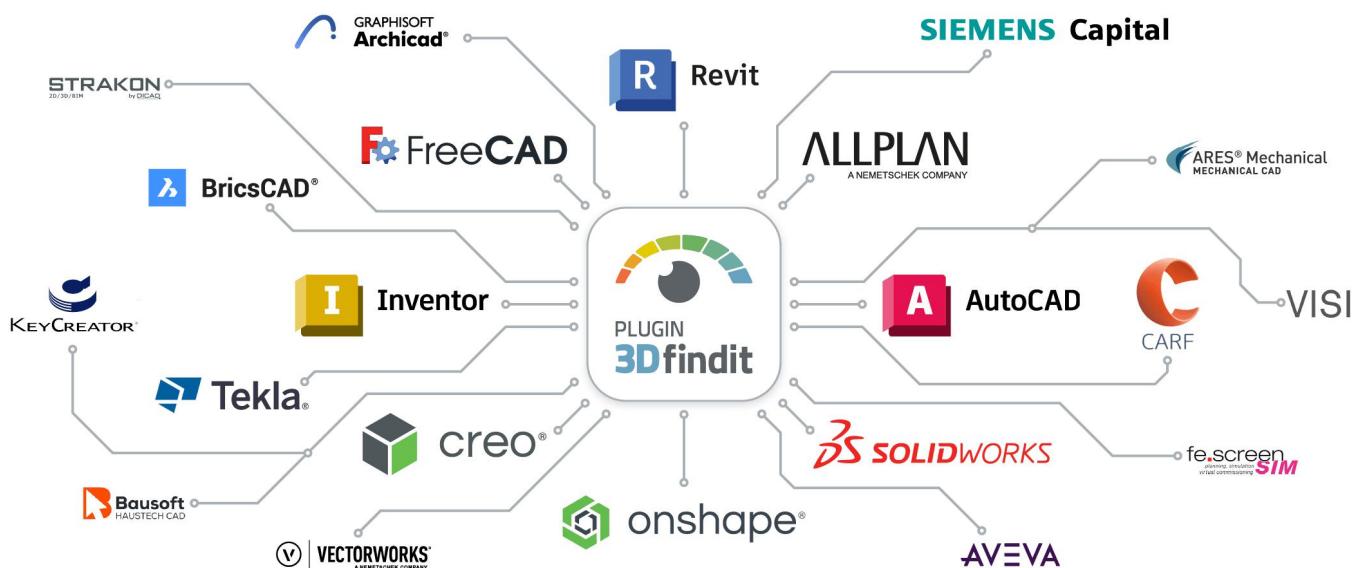


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## CAD plugins

With our CAD integrations, you can use 3Dfindit directly in your CAD system and make your work easier with additional comfort functions, such as replacing a part and many more.

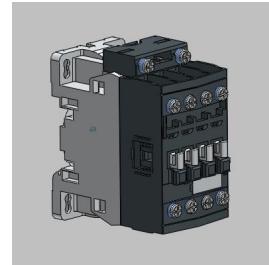


To the plugins



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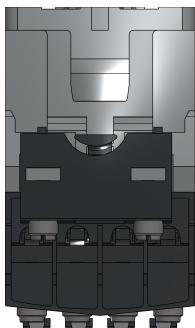
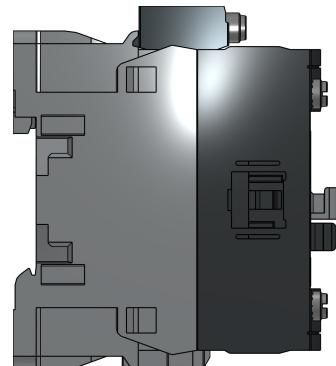
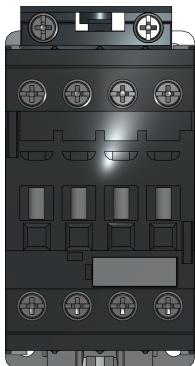
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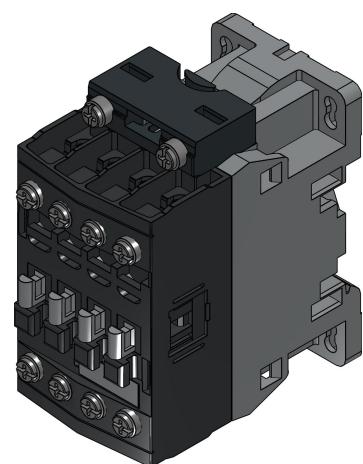
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2D derivation



ISO view



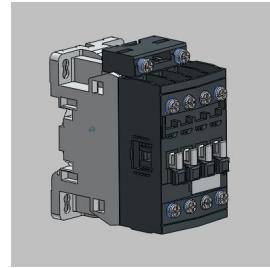
## Bill-Of-Materials

Nº	Description	Amount
1	ABB - 1SBH136064R2131 + NFZB31ERT-21U 24-60V50/60HZ 20-60VDC Contactor Relay	1



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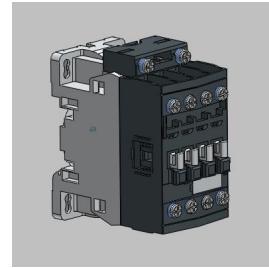
**NF**

## Technical drawings



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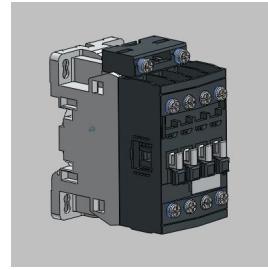
## Technical data

PN (Product ID)	1SBH136064R2131
EXTTYPE (Extended Product Type)	NFZB31ERT-21U
INVDES (Invoice Description)	NFZB31ERT-21U 24-60V50/60HZ 20-60VDC Contactor Relay
DES (Description)	Ring Tongue Terminals 4 Poles NF Contactor Relay - Top Mounted Coil Terminal
DESCLONG (Long Description)	NFZB..RT contactor relays comply with the latest railway rolling stock standards and allow installation in passengers or driver cabins for trains frequently operating tunnels or undergrounds. They are used for switching auxiliary and control circuits. Improve the compactness of the installations thanks to reduced dimension and side-by-side mounting requiring less 15% width (without spacing) from -40 °C up to +70 °C. Meet all main rolling stocks standards: IEC 60947-4-1, IEC 60947-5-1, IEC 60077-1/-2 and applicable parts of EN 50155 standards, shocks and vibration withstand conforming to IEC 61373 cat. 1, class B. Reach the highest levels in fire and smoke behaviour with compliance to North American standards NFPA 130, BSS 7239 and SMP 800 Reduce train energy with lighter devices and requiring 68% less coil energy consumption in operation. Electronic coil interface handling large DC voltage fluctuation voltage, including several Uc DC control voltages used for battery supply and accepting sinusoidal AC 50/60 Hz control supplies included inside Ucmin.... Ucmax voltage range. Max permitted AC 50/60 Hz control voltage must not be exceeded (see technical data). Wide range of auxiliary contact blocks for front and side mounting.
INTNO (International product number)	3471523152014
MANUID (Product number of the Manufacturer)	1SBH136064R2131
EF003978 (Rated control supply voltage Us at AC 50HZ / V)	---
EF003979 (Rated control supply voltage Us at AC 60HZ / V)	---
EF003980 (Rated control supply voltage Us at DC / V)	---
EF008242 (Voltage type for actuating)	
EF001378 (Rated operation current Ie, 400 V / A)	
EF006820 (Connection type auxiliary circuit)	
EF000003 (Mounting method)	
EF000594 (Interface)	
EF007281 (Number of auxiliary contacts as normally closed contact, delayed switching)	
EF001126 (Modular version)	
EF007282 (Number of auxiliary contacts as normally open contact, leading)	
EF001376 (Number of auxiliary contacts as normally open contact)	



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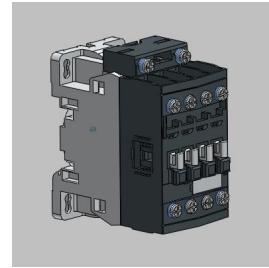
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EF003531 (Number of auxiliary contacts as change-over contact)	
EF001377 (Number of auxiliary contacts as normally closed contact)	
EF005950 (With LED indication)	
EF006819 (Type of electrical connection of main circuit)	
EF002978 (Suitable for manual operation)	
EF001375 (Number of normally closed contacts as main contact)	
EF001374 (Number of normally open contacts as main contact)	
CTN (Customs tariff number)	85364900
TYPE (Type)	NF(Z)B31ERT
WEBLINK (Deeplink product page)	



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## E-Learning

Discover free training for 3Dfindit, the search engine for engineers, designers, and architects. Our 30 to 50-minute interactive courses provide you with comprehensive knowledge about the platform. Upon successful completion, you will receive a certificate. Start your first course now and master 3Dfindit!



**Become an Expert of Digital Engineering**

**E-Learning**  
Get a free certificate!

**3Dfindit**

**Boost your career and get ready for Industry 4.0!**

**Learn more**

The banner features a laptop displaying an E-Learning course with a graduation cap icon and the text "Get a free certificate!". To the left is a potted plant, and to the right is a wooden chair with a cushion. The 3Dfindit logo is in the top right corner, and a call-to-action button at the bottom right says "Learn more".

**Start course**