## SIEMENS

## Data sheet

## 3RF2130-1AA26



Semiconductor relay, 1-phase 3RF2 Overall width 22.5 mm, 30 A 48-600 V / 110-230 V AC screw terminal

product brand name	SIRIUS
product designation	solid-state relay
design of the product	single-phase
product type designation	3RF21
manufacturer's article number	
<ul> <li>_1 of the accessories that can be ordered</li> </ul>	3RF2900-3PA88
<ul> <li>_2 of the accessories that can be ordered</li> </ul>	<u>3RF2950-0HA36</u>
<ul> <li>4 of the accessories that can be ordered</li> </ul>	3RF2950-0GA36
product designation	
<ul> <li>_1 of the accessories that can be ordered</li> </ul>	terminal cover
<ul> <li>_2 of the accessories that can be ordered</li> </ul>	power regulator
<ul> <li>_4 of the accessories that can be ordered</li> </ul>	load monitoring
General technical data	
product function	zero-point switching
power loss [V·A] maximum	44.2 VA
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	44.2 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	44.2 W
<ul> <li>without load current share typical</li> </ul>	3.5 W
insulation voltage rated value	600 V
type of voltage of the control supply voltage	AC
surge voltage resistance of main circuit rated value	6 kV
shock resistance according to IEC 60068-2-27	15g / 11 ms
vibration resistance according to IEC 60068-2-6	2g
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/28/2009
Main circuit	
number of poles for main current circuit	1
number of NO contacts for main contacts	1
number of NC contacts for main contacts	0
operating voltage at AC	
<ul> <li>at 50 Hz rated value</li> </ul>	48 600 V
<ul> <li>at 60 Hz rated value</li> </ul>	48 600 V
operating frequency rated value	50 60 Hz
relative symmetrical tolerance of the operating frequency	10 %
operating range relative to the operating voltage at AC	
• at 50 Hz	40 660 V
• at 60 Hz	40 660 V
operational current	
<ul> <li>at AC-51 rated value</li> </ul>	30 A
<ul> <li>according to UL 508 rated value</li> </ul>	30 A

	20.4
ampacity maximum	30 A
operational current minimum	500 mA 1 000 V/µs
rate of voltage rise at the thyristor for main contacts maximum permissible	1 000 V/µS
blocking voltage at the thyristor for main contacts maximum permissible	1 600 V
reverse current of the thyristor	10 mA
derating temperature	40 °C
surge current resistance rated value	400 A
I2t value maximum	800 A <sup>2</sup> ·s
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage 1 at AC	
• at 50 Hz	110 230 V
• at 60 Hz	110 230 V
control supply voltage frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
control supply voltage at AC	
• at 50 Hz full-scale value for signal<0> recognition	40 V
at 60 Hz full-scale value for signal<0> recognition	40 V
control supply voltage	00.1/
at AC initial value for signal <1> detection	90 V 5 Hz
symmetrical line frequency tolerance control current at minimum control supply voltage	5 Hz
• at AC	2 mA
control current at AC rated value	15 mA
ON-delay time	40 ms; additionally max. one half-wave
OFF-delay time	40 ms; additionally max. one half-wave
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
-	0
number of NU contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts	0
-	
number of CO contacts for auxiliary contacts	
number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions	0
number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the	0 screw fixing
number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment	0 screw fixing Yes M4
number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum	0 screw fixing Yes M4 1.5 N·m
number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf-in] of fixing screw maximum	0 screw fixing Yes M4 1.5 N·m 13 lbf·in
number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf-in] of fixing screw maximum height	0 screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm
number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf-in] of fixing screw maximum height width	0 screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm
number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf-in] of fixing screw maximum height width depth	0 screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm
number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf-in] of fixing screw maximum height width depth Connections/ Terminals	0 screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm
number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum height width depth Connections/ Terminals type of electrical connection	0 screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm 48 mm
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number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf-in] of fixing screw maximum height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections	0 screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm 48 mm
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number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf-in] of fixing screw maximum height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts - solid	0 screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm 48 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> )
number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf·in] of fixing screw maximum height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main	0 screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm 48 mm screw-type terminals screw-type terminals $2x (1.5 2.5 mm^2), 2x (2.5 6 mm^2)$ $2x (1 2.5 mm^2), 2x (2.5 6 mm^2), 1x 10 mm^2$
number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf·in] of fixing screw maximum height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts	0 screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm 48 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (14 10)
number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf-in] of fixing screw maximum height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid or stranded	0 screw fixing Yes M4 1.5 N·m 13 lbf·in 85 mm 22.5 mm 48 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (14 10) 1.5 6 mm <sup>2</sup>
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number of CO contacts for auxiliary contacts Installation/ mounting/ dimensions fastening method • side-by-side mounting design of the thread of the screw for securing the equipment tightening torque of fixing screw maximum tightening torque [lbf-in] of fixing screw maximum height width depth Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for main contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary and control contacts • for auxiliary and control contacts • for auxiliary and control contacts	0 screw fixing Yes M4 1.5 N·m 13 lbf in 85 mm 22.5 mm 48 mm screw-type terminals screw-type terminals 2x (1.5 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (14 10) 1.5 6 mm <sup>2</sup> 1 10 mm <sup>2</sup>
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tightoning torque	
<ul> <li>tightening torque</li> <li>for main contacts with screw-type terminals</li> </ul>	2 2.5 N·m
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	0.5 0.6 N·m
terminals	
tightening torque [lbf·in]	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	7 10.3 lbf·in
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	4.5 5.3 lbf·in
terminals design of the thread of the connection screw	
<ul> <li>for main contacts</li> </ul>	M4
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3
stripped length of the cable	
for main contacts	7 mm
<ul> <li>for auxiliary and control contacts</li> </ul>	7 mm
Safety related data	
protection class IP on the front according to IEC	IP20
60529	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Ambient conditions	
installation altitude at height above sea level maximum	1 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Electromagnetic compatibility	
conducted interference	0 W// 5 W In Astronomic estavies 0
<ul> <li>due to burst according to IEC 61000-4-4</li> <li>due to conductor-earth surge according to IEC</li> </ul>	2 kV / 5 kHz behavior criterion 2 2 kV behavior criterion 2
61000-4-5	
due to conductor-conductor surge according to IEC 61000-4-5	
due to high-frequency radiation according to IEC 61000-4-6	140 dBuV in the frequency range 0.15 80 MHz, behavior criterion 1
field-based interference according to IEC 61000-4-3	80 MHz 1 GHz 10 V/m, behavior criterion 1
electrostatic discharge according to IEC 61000-4-2 conducted HF interference emissions according to	4 kV contact discharging / 8 kV air discharging, behavior criterion 2 Class A for industrial environment
CISPR11	Oldos A for industrial environment
	Class B for the domestic, business and commercial environments
CISPR11 field-bound HF interference emission according to	
CISPR11 field-bound HF interference emission according to CISPR11	
CISPR11 field-bound HF interference emission according to CISPR11 Short-circuit protection, design of the fuse link manufacturer's article number • of gS fuse for semiconductor protection at NH	Class B for the domestic, business and commercial environments <u>3NE1815-0;</u> These fuses have a smaller rated current than the
CISPR11 field-bound HF interference emission according to CISPR11 Short-circuit protection, design of the fuse link manufacturer's article number • of gS fuse for semiconductor protection at NH design usable	Class B for the domestic, business and commercial environments <u>3NE1815-0;</u> These fuses have a smaller rated current than the semiconductor relays
CISPR11 field-bound HF interference emission according to CISPR11 Short-circuit protection, design of the fuse link manufacturer's article number • of gS fuse for semiconductor protection at NH	Class B for the domestic, business and commercial environments <u>3NE1815-0;</u> These fuses have a smaller rated current than the semiconductor relays
CISPR11 field-bound HF interference emission according to CISPR11 Short-circuit protection, design of the fuse link manufacturer's article number • of gS fuse for semiconductor protection at NH design usable • of back-up R fuse link for semiconductor protection	Class B for the domestic, business and commercial environments <u>3NE1815-0;</u> These fuses have a smaller rated current than the semiconductor relays <u>3NE1815-0</u>
CISPR11 field-bound HF interference emission according to CISPR11 Short-circuit protection, design of the fuse link manufacturer's article number • of gS fuse for semiconductor protection at NH design usable • of back-up R fuse link for semiconductor protection at NH design usable • of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable • of back-up R fuse link for semiconductor protection	Class B for the domestic, business and commercial environments <u>3NE1815-0;</u> These fuses have a smaller rated current than the semiconductor relays <u>3NE1815-0</u> <u>3NC1032</u>
CISPR11 field-bound HF interference emission according to CISPR11 Short-circuit protection, design of the fuse link manufacturer's article number • of gS fuse for semiconductor protection at NH design usable • of back-up R fuse link for semiconductor protection at NH design usable • of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable • of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable • of back-up R fuse link for semiconductor protection	Class B for the domestic, business and commercial environments           3NE1815-0; These fuses have a smaller rated current than the semiconductor relays           3NE1815-0           3NC1032           3NC1440
CISPR11 field-bound HF interference emission according to CISPR11 Short-circuit protection, design of the fuse link manufacturer's article number • of gS fuse for semiconductor protection at NH design usable • of back-up R fuse link for semiconductor protection at NH design usable • of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable • of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable	Class B for the domestic, business and commercial environments           3NE1815-0; These fuses have a smaller rated current than the semiconductor relays           3NE1815-0           3NC1032           3NC1440
CISPR11 field-bound HF interference emission according to CISPR11 Short-circuit protection, design of the fuse link manufacturer's article number • of gS fuse for semiconductor protection at NH design usable • of back-up R fuse link for semiconductor protection at NH design usable • of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable • of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable • of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable	Class B for the domestic, business and commercial environments           3NE1815-0; These fuses have a smaller rated current than the semiconductor relays           3NE1815-0           3NC1032           3NC1440           3NC2240           3NA6803-6; These fuses have a smaller rated current than the
CISPR11 field-bound HF interference emission according to CISPR11 Short-circuit protection, design of the fuse link manufacturer's article number • of gS fuse for semiconductor protection at NH design usable • of back-up R fuse link for semiconductor protection at NH design usable • of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable • of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable • of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable manufacturer's article number of the gG fuse • at NH design usable	Class B for the domestic, business and commercial environments           3NE1815-0; These fuses have a smaller rated current than the semiconductor relays           3NE1815-0           3NC1032           3NC1440           3NC2240
CISPR11 field-bound HF interference emission according to CISPR11 Short-circuit protection, design of the fuse link manufacturer's article number • of gS fuse for semiconductor protection at NH design usable • of back-up R fuse link for semiconductor protection at NH design usable • of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable • of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable • of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable manufacturer's article number of the gG fuse • at NH design usable	Class B for the domestic, business and commercial environments <u>3NE1815-0;</u> These fuses have a smaller rated current than the semiconductor relays <u>3NE1815-0</u> <u>3NC1032</u> <u>3NC1440</u> <u>3NC2240</u> <u>3NA6803-6;</u> These fuses have a smaller rated current than the semiconductor relays
CISPR11 field-bound HF interference emission according to CISPR11 Short-circuit protection, design of the fuse link manufacturer's article number • of gS fuse for semiconductor protection at NH design usable • of back-up R fuse link for semiconductor protection at NH design usable • of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable • of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable • of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable manufacturer's article number of the gG fuse • at NH design usable	Class B for the domestic, business and commercial environments           3NE1815-0; These fuses have a smaller rated current than the semiconductor relays           3NE1815-0           3NC1032           3NC1440           3NC2240           3NA6803-6; These fuses have a smaller rated current than the
CISPR11 field-bound HF interference emission according to CISPR11 Short-circuit protection, design of the fuse link manufacturer's article number • of gS fuse for semiconductor protection at NH design usable • of back-up R fuse link for semiconductor protection at NH design usable • of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable • of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable • of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable manufacturer's article number of the gG fuse • at NH design usable Certificates/ approvals General Product Approval	Class B for the domestic, business and commercial environments <u>3NE1815-0;</u> These fuses have a smaller rated current than the semiconductor relays <u>3NE1815-0</u> <u>3NC1032</u> <u>3NC1440</u> <u>3NC2240</u> <u>3NA6803-6;</u> These fuses have a smaller rated current than the semiconductor relays <u>SIMA6803-6;</u> These fuses have a smaller rated current than the semiconductor relays
CISPR11 field-bound HF interference emission according to CISPR11 Short-circuit protection, design of the fuse link manufacturer's article number • of gS fuse for semiconductor protection at NH design usable • of back-up R fuse link for semiconductor protection at NH design usable • of back-up R fuse link for semiconductor protection at cylindrical design 10 x 38 mm usable • of back-up R fuse link for semiconductor protection at cylindrical design 14 x 51 mm usable • of back-up R fuse link for semiconductor protection at cylindrical design 22 x 58 mm usable manufacturer's article number of the gG fuse • at NH design usable	Class B for the domestic, business and commercial environments <u>3NE1815-0;</u> These fuses have a smaller rated current than the semiconductor relays <u>3NE1815-0</u> <u>3NC1032</u> <u>3NC1440</u> <u>3NC2240</u> <u>3NA6803-6;</u> These fuses have a smaller rated current than the semiconductor relays <u>SIMA6803-6;</u> These fuses have a smaller rated current than the semiconductor relays
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Special Test Certificate Type Test Certificates/Test Report **Confirmation** 



Vibration and Shock

## Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2130-1AA26

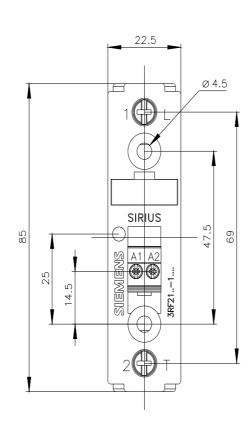
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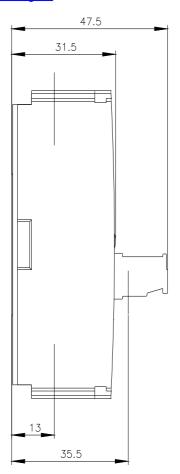
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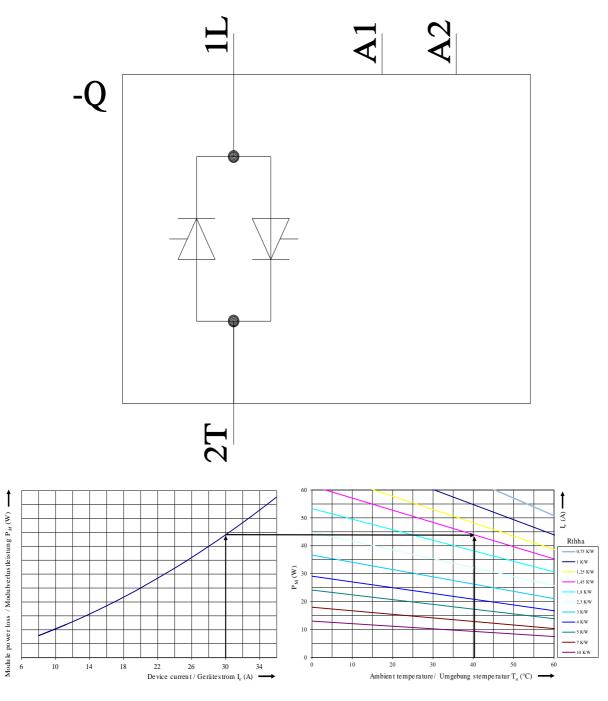
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RF2130-1AA26

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF2130-1AA26&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RF2130-1AA26&lang=en</a>







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1/12/2022 🖸