## **Data sheet**

# 3SU1400-1AA10-3CA0



Contact module with 1 contact element, 1 NC, spring-type terminal, for front plate mounting, Minimum order quantity 5 or a multiple thereof



product brand name	SIRIUS ACT
product designation	Contact module
product type designation	3SU1
Contact block/ lampholder	
socket design	other
General technical data	
product function positive opening	Yes
insulation voltage rated value	500 V
degree of pollution	3
type of voltage	
<ul> <li>of the operating voltage</li> </ul>	AC/DC
of the input voltage	AC/DC
surge voltage resistance rated value	6 kV
protection class IP	
of the enclosure	IP40
of the terminal	IP20
shock resistance	
<ul><li>according to IEC 60068-2-27</li></ul>	sinusoidal half-wave 15g / 11 ms
<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B
vibration resistance	
<ul><li>according to IEC 60068-2-6</li></ul>	10 500 Hz: 5g
<ul> <li>for railway applications according to EN 61373</li> </ul>	Category 1, Class B
operating frequency maximum	3 600 1/h
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) typical	10 000 000
thermal current	10 A
reference code according to IEC 81346-2	S
continuous current of the C characteristic MCB	10 A
Substance Prohibitance (Date)	10/01/2014
Weight	8 g
operating voltage	
• at AC	
— at 50 Hz rated value	5 500 V
— at 60 Hz rated value	5 500 V
at DC rated value	5 500 V
Power Electronics	
contact reliability	One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million

Auditory Current		(5 V, 1 mA)
design of the contact of auxiliary contacts unbeed NR Contacts for auxiliary contacts  **lagging switching**  **propriet of NO contacts for auxiliary contacts  **lagging switching**  **operational current at AC-12**  **at 28 V tractor value**  **at 18 V rated value**  **at 18 V rated value**  **at 18 V rated value**  **at 20 V rated value**  **at 22 V rated value**  **at 30 V rated value**  **	Auxiliary circuit	(v v, 1 III/)
		Silver alloy
Legiong workching		
	-	
making contact   0		
	-	0
eat 11 10 V rated value	• at 24 V rated value	10 A
## and 20 V rated value  ## and 40 V rated val	• at 48 V rated value	10 A
• nt 400 V rated value	<ul> <li>at 110 V rated value</li> </ul>	10 A
A 24 V rated value	<ul> <li>at 230 V rated value</li> </ul>	8 A
	at 400 V rated value	8 A
	operational current at AC-15	
	<ul> <li>at 24 V rated value</li> </ul>	6 A
• at 230 V rated value	• at 48 V rated value	6 A
• at 400 V rated value	• at 110 V rated value	6 A
• at 500 V rated value  oat 24 V rated value  1 0 A  1 10 V rated value  1 1 A  1 11 0 V rated value  1 1 A  1 14 0 V rated value  1 1 A  1 25 0 V rated value  1 1 A  1 25 0 V rated value  1 2.5 A  1 24 V rated value  1 3 A  1 24 V rated value  1 3 A  1 24 V rated value  1 3 A  1 23 0 V rated value  1 3 A  1 24 V rated value  1 3 A  1 24 V rated value  1 5 A  1 5 A  1 6 V rated value  1 7 A  1 6 V rated value  1 7 A  1 7 A  1 23 0 V rated value  1 8 A  1 10 V rated value  1 1.5 A  1 23 0 V rated value  1 1.5 A  1 23 0 V rated value  1 1.5 A  1 23 0 V rated value  1 1 2 V rated value  1 2 V V rated value  1 3 A  1 2 V rated value  1 4 8 V rated value  1 5 A  1 5 V rated value  2 V (2 5 1.5 mm²)  1 6 Inely stranded with core end processing  1 5 V V (2 5 1.5 mm²)  1 6 Inely stranded without core end processing  1 6 V V C cables  2 V (2 5 1.5 mm²)	• at 230 V rated value	6 A
at 24 V rated value	• at 400 V rated value	3 A
	at 500 V rated value	1.4 A
at 48 V rated value	operational current at DC-12	
• at 110 V rated value	• at 24 V rated value	10 A
■ at 230 V rated value     ■ at 400 V rated value     ■ at 500 V rated value     ■ at 500 V rated value     Operational current at DC-13     ■ at 24 V rated value     ■ at 24 V rated value     ■ at 140 V rated value     ■ at 140 V rated value     ■ at 110 V rated value     ■ at 110 V rated value     ■ at 130 V rated value     ■ at 130 V rated value     ■ at 1400 V rated value     ■ at 1400 V rated value     ■ at 150 V rated value     ■ at 250	• at 48 V rated value	5 A
■ at 400 V rated value     ■ at 500 V rated value     ■ at 500 V rated value     ■ at 500 V rated value     ■ at 42 V rated value     ■ at 48 V rated value     ■ at 48 V rated value     ■ at 430 V rated value     ■ at 130 V rated value     ■ at 130 V rated value     ■ at 1400 V rated value     ■ at 500 V rated value     ■ at 400 V rated value     ■ at 400 V rated value     ■ at 500 V rated value     ■ at 400 V rated value     ■ at 500 V rated value     ■ at 400 V rated value     ■ at 500 V rated value     ■ at 400 V rated value     ■ at 500 V rated value     ■ at 400 V rated	• at 110 V rated value	2.5 A
• at 500 V rated value  operational current at DC-13  • at 24 V rated value  at 48 V rated value  at 110 V rated value  at 110 V rated value  on 7 A  • at 230 V rated value  on 1 A  on 1 400 V rated value  on 1 A  connections/ Terminals  type of electrical connection  type of connectable conductor cross-sections  • solid without core end processing  of inely stranded with core end processing  of rank WG cables  Ambient conditions  ambient temperature  of during operation  of during storage  environmental category during operation according to IEC  60721  Environmental Foduct Declaration(EPD)  global warming potential [CO2 eq] during manufacturing  global warming potential [CO2 eq] during operation  global warming potential [CO2 eq] after end of life  sole monthly operation  of modules and accessories  featening method  of modules and accessories  fently transfer of modules and accessories	• at 230 V rated value	1 A
operational current at DC-13  • at 24 V rated value • at 48 V rated value • at 1710 V rated value • at 130 V rated value • at 230 V rated value • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • 20.1 A  Connections/Torminals  Type of electrical connection  type of connectable conductor cross-sections • solid without core end processing • solid without core end processing • finely stranded with core end processing • finely stranded with core end processing • for AWG cables  Ambient conditions  ambient temperature • during operation • during storage environmental category during operation according to IEC 60721  Environmental footprint  Environmental Product Declaration(EPD) Tenvironmental Product Declaration(EPD)  global warming potential [CO2 eq] during operation 0.787 kg global warming potential [CO2 eq] during manufacturing 0.566 kg global warming potential [CO2 eq] during manufacturing 0.566 kg global warming potential [CO2 eq] during operation 0.235 kg Siemens Eco Profile (SEP) Siemens Eco Profile (SEP) Siemens Eco Profile (SEP)  fastening method • of modules and accessories  fastening method • of modules and accessories  Front plate mounting feight width 0.98 mm depth	• at 400 V rated value	0.3 A
at 24 V rated value at 148 V rated value 1.5 A at 480 V rated value 2.7 A at 230 V rated value 2.3 A at 230 V rated value 2.3 A at 2500 V rated value 2.5 A 2.5 Connections/ Terminals  type of electrical connection type of connectable conductor cross-sections 2.5 cold without core end processing 3.5 cold without core end processing 4.5 (2.5 1.5 mm²) 5. finely stranded with core end processing 5. finely stranded without core end processing 6. finely stranded without core end processing 7. for AWG cables  Ambient conditions  ambient temperatur 6. during operation 7. during operation 8. during storage 8. environmental category during operation according to IEC 8. for 21 8. sold without beclaration(EPD) 9. finely stranded without core end processing 9. sold warming potential (CO2 eq) during manufacturing 9. global warming potential (CO2 eq) during manufacturing 9. global warming potential (CO2 eq) during manufacturing 9. soless warming manufacturing 9. soless warming potential (CO2 eq) during manufacturing 9. soless warming manufacturing 9. soless warming manufacturing 9. soless warming manufacturing 9. soless warming potential (CO2 eq) during manufacturing	at 500 V rated value	0.3 A
■ at 48 V rated value     ■ at 110 V rated value     ■ at 230 V rated value     ■ at 400 V rated value     ■ at 400 V rated value     ■ at 400 V rated value     ■ at 500 V rated value      ■ at 500 V rated value      ■ at 500 V rated value      ■ of lectrical connection      Type of connectable conductor cross-sections     ■ solid without core end processing     ■ solid without core end processing     ■ finely stranded with core end processing     ■ finely stranded with core end processing     ■ for AWG cables  Ambient conditions  ambient temperature     ■ during operation     ■ during storage     ■ solid warming potential (CO2 egl during amurfacturing of 55%, no condensation in operation permitted)  Environmental Product Declaration(EPD)     Yes     global warming potential (CO2 egl during manufacturing of 0.566 kg     global warming potential (CO2 egl during manufacturing of 0.566 kg     global warming potential (CO2 egl during operation of 0.235 kg     siemens Eco Teofile (SEP)     Siemens Eco Teofile (SEP)     Siemens Eco Teofile (SEP)     finestal at 500 km miles and accessories     fort plate mounting     fort plate mounting     # of modules and accessories     Front plate mounting     # of modules and accessories     # of mo	operational current at DC-13	
at 110 V rated value at 230 V rated value at 400 V rated value 0.1 A  connections/ Terminals  type of electrical connection spring-loaded terminals  type of connectable conductor cross-sections solid without core end processing finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing finely stranded wit		
at 230 V rated value at 400 V rated value 0.1 A  connections/ Terminals  type of electrical connection spring-loaded terminals  type of connectable conductor cross-sections  • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for AWG cables  Ambient conditions  ambient temperature • during operation • during storage environmental category during operation according to IEC 67721  Environmental Product Declaration(EPD) Siglobal warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during operation  ■ 0.015 kg Slemens Eco Profile (SEP) Installation/ mounting/ dimensions  fastening method • of modules and accessories Front plate mounting  ### August 1.5 mm²  ### 0.25 +70 °C  ### 40 +80 °C  3M6, 352, 382, 3C3 (without salt spray), 3K6 (with relative humidity of 10 95%, no condensation in operation permitted)  ### 1.5 muring potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during operation  ### 0.255 kg global warming potential [CO2 eq] during operation ### 1.5 muring potent		
at 400 V rated value     at 500 V rated value     0.1 A  Connections/ Terminals  type of electrical connection  ### spring-loaded terminals  type of connectable conductor cross-sections  ### solid without core end processing  ### solid without solid solid without salt spray), 3K6 (with relative humidity of 10 95%, no condensation in operation permitted)  ### solid without salt spray), 3K6 (with relative humidity of 10 95%, no condensation in operation permitted)  ### solid without salt spray), 3K6 (with relative humidity of 10 95%, no condensation in operation permitted)  ### solid without salt spray), 3K6 (with relative humidity of 10 95%, no condensation in operation permitted)  ### solid without salt spray), 3K6 (with relative humidity of 10 95%, no condensation in operation permitted)  ### solid without salt spray), 3K6 (with relative humidity of 10 95%, no condensation in operation permitted)  ### solid wit		
• at 500 V rated value  Connections/ Terminals  type of electrical connection  type of connectable conductor cross-sections  • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • for AWG cables  Ambient conditions  ambient temperature • during operation • during storage  environmental category during operation according to IEC 60721  Environmental Product Declaration(EPD)  global warming potential [CO2 eq] total global warming potential [CO2 eq] during operation  pload a global warming potential [CO2 eq] during operation  of modules and accessories  for not plate mounting  front plate mounting  front plate mounting  height  width  9.8 mm  width  9.8 mm  depth		
type of electrical connection  type of connectable conductor cross-sections  • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • for AWG cables  Ambient conditions  ambient temperature • during operation • during storage • during operation • during storage • environmental category during operation according to IEC 60721  Environmental footprint  Environmental Froduct Declaration(EPD)  global warming potential [CO2 eq] total global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during operation  0.235 kg global warming potential [CO2 eq] after end of life  3.015 kg Siemens Eco Profile (SEP)  Siemens Eco Profile (SEP)  Installation/ mounting/ dimensions  fastening method • of modules and accessories • front plate mounting  width 9.8 mm  width 9.8 mm  depth		
type of electrical connection type of connectable conductor cross-sections  • solid without core end processing • finely stranded with core end processing • finely stranded with core end processing • for AWG cables  Ambient conditions  ambient temperature • during operation • during storage environmental category during operation according to IEC 60721  Environmental Froduct Declaration(EPD) global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during during operation 0.235 kg global warming potential [CO2 eq] during operation 0.235 kg global warming potential [CO2 eq] during operation 0.235 kg lishens Eco Profile (SEP) Siemens Eco Profile (SEP) Installation/ mounting/ dimensions  fastening method • of modules and accessories height width 9.8 mm depth  2x (0.25 1.5 mm²) 2x (0.25 1.5	1111 111	0.1 A
type of connectable conductor cross-sections	Connections/ Terminals	
• solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for AWG cables  **To C  **Ouring operation • during operation • during storage  **environmental category during operation according to IEC 60721  **Environmental footprint  **Environmental Froduct Declaration(EPD) **global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during operation  **global warming potential [CO2 eq] after end of life  **Siemens Eco Profile (SEP)  **Installation/ mounting/ dimensions  **fastening method • of modules and accessories  **Front plate mounting  **plate would be a minus of m	-	spring-loaded terminals
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables</li> <li>2x (0.25 1.5 mm²)</li> <li>2x (24 16)</li> </ul> Ambient conditions ambient temperature <ul> <li>during operation</li> <li>during storage</li> <li>environmental category during operation according to IEC 60721</li> <li>367, 3S2, 3B2, 3C3 (without salt spray), 3K6 (with relative humidity of 10 95%, no condensation in operation permitted)</li> </ul> Environmental Froduct Declaration(EPD) <ul> <li>global warming potential [CO2 eq] total</li> <li>global warming potential [CO2 eq] during manufacturing</li> <li>global warming potential [CO2 eq] during operation</li> <li>0.235 kg</li> <li>global warming potential [CO2 eq] after end of life</li> <li>-0.015 kg</li> </ul> Siemens Eco Profile (SEP) <ul> <li>Installation/ mounting/ dimensions</li> </ul> fastening method <ul> <li>of modules and accessories</li> <li>front plate mounting</li> <li>height</li> <li>width</li> <li>9.8 mm</li> </ul> depth <ul> <li>27.7 mm</li> </ul>		0 (0.07 4.7 0)
finely stranded without core end processing     for AWG cables     2x (24 16)  Ambient conditions  ambient temperature     during operation     during storage     environmental category during operation according to IEC 60721  Environmental Product Declaration(EPD)  global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during operation		· · ·
ambient temperature		
ambient temperature		2x (24 16)
• during operation     • during storage     • environmental category during operation according to IEC     60721     808, 382, 382, 382, 383 (without salt spray), 3K6 (with relative humidity of 10     95%, no condensation in operation permitted)  Environmental Footprint  Environmental Product Declaration(EPD)     global warming potential [CO2 eq] total     global warming potential [CO2 eq] during manufacturing     global warming potential [CO2 eq] during operation     global warming potential [CO2 eq] during operation     global warming potential [CO2 eq] after end of life     siemens Eco Profile (SEP)     Siemens EcoTech  Installation/ mounting/ dimensions  fastening method     of modules and accessories     Front plate mounting     height     width     9.8 mm  depth  27.7 mm		
olduring storage     environmental category during operation according to IEC     environmental footprint  Environmental Froduct Declaration(EPD)     global warming potential [CO2 eq] during manufacturing     global warming potential [CO2 eq] during operation     global warming potential [CO2 eq] during operation     global warming potential [CO2 eq] after end of life     siemens Eco Profile (SEP)  Installation/ mounting/ dimensions  fastening method     of modules and accessories  front plate mounting  width     9.8 mm  depth  -40 +80 °C  3M6, 3S2, 3B2, 3C3 (without salt spray), 3K6 (with relative humidity of 10  3M6, 3S2, 3B2, 3C3 (without salt spray), 3K6 (with relative humidity of 10  3M6, 3S2, 3B2, 3C3 (without salt spray), 3K6 (with relative humidity of 10  3M6, 3S2, 3B2, 3C3 (without salt spray), 3K6 (with relative humidity of 10  3M6, 3S2, 3B2, 3C3 (without salt spray), 3K6 (with relative humidity of 10  3M6, 3S2, 3B2, 3C3 (without salt spray), 3K6 (with relative humidity of 10  95%, no condensation in operation permitted)  Yes  global warming potential [CO2 eq] total  0.787 kg  global warming potential [CO2 eq] during manufacturing  0.566 kg  global warming potential [CO2 eq] during operation  0.235 kg  global warming potential [CO2 eq] after end of life  -0.015 kg  Siemens EcoTech  Installation/ mounting/ dimensions  front plate mounting  • of modules and accessories  Front plate mounting  • of modules and accessories  Front plate mounting	•	0570 %0
environmental category during operation according to IEC 60721  Environmental footprint  Environmental Product Declaration(EPD)  global warming potential [CO2 eq] total  global warming potential [CO2 eq] during manufacturing  global warming potential [CO2 eq] during operation  global warming potential [CO2 eq] during operation  global warming potential [CO2 eq] after end of life  Siemens Eco Profile (SEP)  Installation/ mounting/ dimensions  fastening method  of modules and accessories  front plate mounting  height  36 mm  width  9.8 mm  depth  27.7 mm		
Environmental Footprint  Environmental Product Declaration(EPD)  global warming potential [CO2 eq] total  global warming potential [CO2 eq] during manufacturing  global warming potential [CO2 eq] during operation  global warming potential [CO2 eq] during operation  global warming potential [CO2 eq] after end of life  -0.015 kg  Siemens Eco Profile (SEP)  Installation/ mounting/ dimensions  fastening method  of modules and accessories  front plate mounting  height  36 mm  width  9.8 mm  depth  27.7 mm		
Environmental Product Declaration(EPD)  global warming potential [CO2 eq] total  global warming potential [CO2 eq] during manufacturing  global warming potential [CO2 eq] during manufacturing  global warming potential [CO2 eq] during operation  global warming potential [CO2 eq] during operation  global warming potential [CO2 eq] after end of life  -0.015 kg  Siemens Eco Profile (SEP)  Siemens EcoTech  Installation/ mounting/ dimensions  fastening method  of modules and accessories  Front plate mounting  height  36 mm  width  9.8 mm  depth  27.7 mm		
Environmental Product Declaration(EPD)  global warming potential [CO2 eq] total  global warming potential [CO2 eq] during manufacturing  global warming potential [CO2 eq] during operation  global warming potential [CO2 eq] during operation  global warming potential [CO2 eq] after end of life  -0.015 kg  Siemens Eco Profile (SEP)  Siemens EcoTech  Installation/ mounting/ dimensions  fastening method  of modules and accessories  front plate mounting  height  36 mm  width  9.8 mm  depth  27.7 mm		
global warming potential [CO2 eq] total 0.787 kg global warming potential [CO2 eq] during manufacturing 0.566 kg global warming potential [CO2 eq] during operation 0.235 kg global warming potential [CO2 eq] after end of life -0.015 kg Siemens Eco Profile (SEP) Siemens EcoTech  Installation/ mounting/ dimensions  fastening method front plate mounting  • of modules and accessories Front plate mounting  height 36 mm  width 9.8 mm  depth 27.7 mm		Yes
global warming potential [CO2 eq] during manufacturing global warming potential [CO2 eq] during operation global warming potential [CO2 eq] after end of life -0.015 kg Siemens Eco Profile (SEP) Siemens EcoTech  Installation/ mounting/ dimensions  fastening method of modules and accessories front plate mounting height 36 mm width 9.8 mm depth 27.7 mm		0.787 kg
global warming potential [CO2 eq] during operation global warming potential [CO2 eq] after end of life -0.015 kg Siemens Eco Profile (SEP) Siemens EcoTech  Installation/ mounting/ dimensions  fastening method of modules and accessories Front plate mounting height 36 mm width 9.8 mm depth 27.7 mm		
global warming potential [CO2 eq] after end of life  Siemens Eco Profile (SEP)  Siemens EcoTech  Installation/ mounting/ dimensions  fastening method  of modules and accessories  height  width  9.8 mm  depth  27.7 mm		
Siemens Eco Profile (SEP)  Installation/ mounting/ dimensions  fastening method  of modules and accessories  height  width  genty  genty  genty  siemens EcoTech  front plate mounting  Front plate mounting  Front plate mounting  9.8 mm  genty  gent		
Installation/ mounting/ dimensions  fastening method		
● of modules and accessories Front plate mounting height 36 mm width 9.8 mm depth 27.7 mm		
● of modules and accessories Front plate mounting height 36 mm width 9.8 mm depth 27.7 mm		front plate mounting
height         36 mm           width         9.8 mm           depth         27.7 mm	<ul> <li>of modules and accessories</li> </ul>	
width         9.8 mm           depth         27.7 mm	height	
		9.8 mm
suitability for integration	depth	27.7 mm
	suitability for integration	

- plastic enclosure
- metal enclosure

#### **Approvals Certificates**

### **General Product Approval**







Yes

Yes





<u>KC</u>

General Product Approval

**Test Certificates** 

Maritime application

other



Type Test Certificates/Test Report

Special Test Certificate







other

Environment

Confirmation



Siemens EcoTech



Environmental Confirmations

#### Further information

Information on the packaging

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

Information for data generation and storage

https://support.industry.siemens.com/cs/ww/en/view/109995012

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=3SU1400-1AA10-3CA0

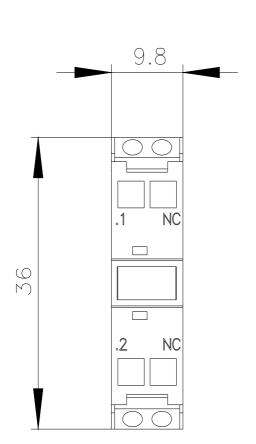
Cax online generator

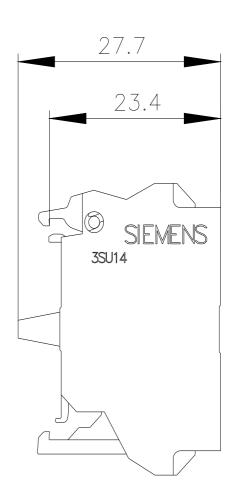
 $Service \& Support\ (Manuals,\ Certificates,\ Characteristics,\ FAQs,...)$ 

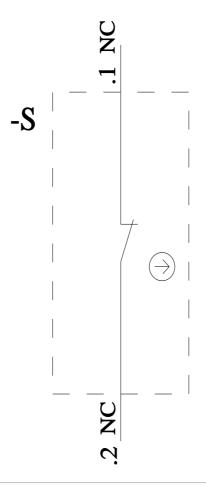
https://support.industry.siemens.com/cs/ww/en/ps/3SU1400-1AA10-3CA0

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3SU1400-1AA10-3CA0&lang=en







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4/2/2025

