## SIEMENS

## Data sheet

## 3RT2023-1AV60



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 480 V AC, 60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

product brand name     SIRIUS       product designation     Power contactor       product type designation     3RT2       General technical data     S0       product extension     • function module for communication	
product type designation     3RT2       General technical data     size of contactor       size of contactor     S0       product extension     S0	
General technical data       size of contactor     S0       product extension	
size of contactor S0 product extension	
product extension	
function module for communication     No	
auxiliary switch Yes	
power loss [W] for rated value of the current	
• at AC in hot operating state 0.6 W	
• at AC in hot operating state per pole 0.2 W	
• without load current share typical 7.2 W	
insulation voltage	
• of main circuit with degree of pollution 3 rated value 690 V	
of auxiliary circuit with degree of pollution 3 rated value     690 V	
surge voltage resistance	
of main circuit rated value     6 kV	
of auxiliary circuit rated value     6 kV	
maximum permissible voltage for protective separation between     400 V       coil and main contacts according to EN 60947-1     400 V	
shock resistance at rectangular impulse	
• at AC 7,5g / 5 ms, 4,7g / 10 ms	
shock resistance with sine pulse	
• at AC 11,8g / 5 ms, 7,4g / 10 ms	
mechanical service life (operating cycles)	
of contactor typical     10 000 000	
of the contactor with added electronically optimized 5 000 000     auxiliary switch block typical	
of the contactor with added auxiliary switch block typical     10 000 000	
reference code according to IEC 81346-2 Q	
Substance Prohibitance (Date) 10/01/2009	
Ambient conditions	
installation altitude at height above sea level maximum 2 000 m	
ambient temperature	
• during operation -25 +60 °C	
• during storage -55 +80 °C	
relative humidity minimum 10 %	
relative humidity at 55 °C according to IEC 60068-2-30 95 %	
Main circuit	
number of poles for main current circuit 3	

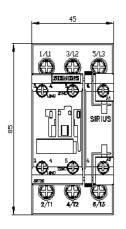
number of NO contacts for main contacts	3
	3
<ul> <li>operating voltage</li> <li>at AC-3 rated value maximum</li> </ul>	690 V
at AC-3e rated value maximum	690 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated	40 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	40 A
value	
— up to 690 V at ambient temperature 60 °C rated value	35 A
• at AC-3	
— at 400 V rated value	9 A
— at 500 V rated value	9 A
— at 690 V rated value	9 A
• at AC-3e	
— at 400 V rated value	9 A
— at 500 V rated value	9 A
— at 690 V rated value	9 A
at AC-4 at 400 V rated value	8.5 A
• at AC-5a up to 690 V rated value	35.2 A
• at AC-5b up to 400 V rated value	7.4 A
● at AC-6a	
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>	11.4 A
— up to 400 V for current peak value n=20 rated value	11.4 A
— up to 500 V for current peak value n=20 rated value	9.1 A
— up to 690 V for current peak value n=20 rated value	9 A
● at AC-6a	
— up to 230 V for current peak value n=30 rated value	7.6 A
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	7.6 A
<ul> <li>— up to 500 V for current peak value n=30 rated value</li> </ul>	6.1 A
<ul> <li>— up to 690 V for current peak value n=30 rated value</li> </ul>	6.1 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	4.1 A
• at 690 V rated value	3.3 A
operational current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	35 A
— at 60 V rated value	20 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
• with 2 current paths in series at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	05 A
— at 24 V rated value	35 A
— at 60 V rated value	35 A
- at 110 V rated value	35 A
- at 220 V rated value	35 A
— at 440 V rated value	2.9 A
- at 600 V rated value	1.4 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	

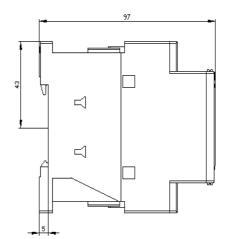
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
• at AC-2 at 400 V rated value	4 kW
• at AC-3	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	2 kW
• at 690 V rated value	2.5 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	4.5 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	7.8 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	7.8 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	10.7 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	3 kVA
• up to 400 V for current peak value n=30 rated value	5.2 kVA
• up to 500 V for current peak value n=30 rated value	5.2 kVA
up to 690 V for current peak value n=30 rated value	7.2 kVA
short-time withstand current in cold operating state up to 40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	170 A; Use minimum cross-section acc. to AC-1 rated value
-	
<ul> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> </ul>	170 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> </ul>	140 A; Use minimum cross-section acc. to AC-1 rated value 104 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> </ul>	88 A; Use minimum cross-section acc. to AC-1 rated value
	oo A, ose minimum cross-section act. to AC-1 rated Value
no-load switching frequency • at AC	5 000 1/h
operating frequency	1 000 1/h
• at AC-1 maximum	
• at AC-2 maximum	1 000 1/h
at AC-3 maximum	1 000 1/h
at AC-3e maximum	1 000 1/h
at AC-4 maximum	300 1/h
Control circuit/ Control	

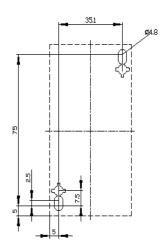
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 60 Hz rated value	480 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 60 Hz	0.85 1.1
<ul> <li>apparent pick-up power of magnet coil at AC</li> <li>at 60 Hz</li> </ul>	73 VA
inductive power factor with closing power of the coil	
• at 60 Hz	0.76
apparent holding power of magnet coil at AC	
• at 60 Hz	7.2 VA
inductive power factor with the holding power of the coil	
• at 60 Hz	0.28
closing delay	
• at AC	8 40 ms
opening delay	
• at AC	4 16 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
at 48 V rated value	6 A
• at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
• at 220 V rated value	1 A
• at 600 V rated value	0.15 A
operational current at DC-13	
• at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	76 4
at 480 V rated value     at 600 V rated value	7.6 A
at 600 V rated value	9 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> <li>— at 110/120 V rated value</li> </ul>	1 hp
— at 110/120 V rated value — at 230 V rated value	1 hp 1 hp
for 3-phase AC motor	- qi i
	2 hn
— at 200/208 V rated value — at 220/230 V rated value	2 hp 3 hp
	3 hp 5 hp
— at 460/480 V rated value	
— at 575/600 V rated value	7.5 hp

contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	A000 / 1 000
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
— with type of coordination 1 required	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)
— with type of assignment 2 required	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
side-by-side mounting	Yes
height	85 mm
width	45 mm
depth	97 mm
required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control circuit	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )
solid or stranded	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )
finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
connectable conductor cross-section for main contacts	
• solid	1 10 mm²
stranded	1 10 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	1 10 mm²
connectable conductor cross-section for auxiliary contacts	
<ul> <li>solid or stranded</li> </ul>	0.5 2.5 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section	
• for main contacts	16 8
<ul> <li>for auxiliary contacts</li> </ul>	20 14
Safety related data	
product function	
mirror contact according to IEC 60947-4-1	Yes
B10 value with high demand rate according to SN 31920	450 000

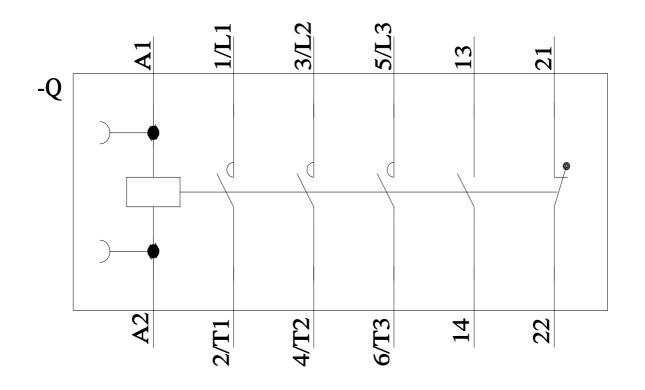
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<ul> <li>even high denard rate according to SNA 1920</li> <li>failure rate [FT] with low denard rate according to SNA 1920</li> <li>failure rate [FT] with low denard rate according to EC 6952</li> <li>gate status in the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave bern rate of the front according to EC 6952</li> <li>trave</li></ul>	proportion of dange	rous failures					
faule rank of the low demand rate according to SN 31920     100 FIT       1 youk of production rule interval or service life according to IEC 6022     20 a       2 youk     20 a       rester control test interval or service life according to IEC 6022     100 FIT       youk of production on the front according to IEC 6022     100 FIT       usual you of the front according to IEC 6022     100 FIT       you of the front according to IEC 6022     100 FIT       usual you of the front according to IEC 6022     100 FIT       usual you of the front according to IEC 6022     100 FIT       usual you of the front according to IEC 6022     100 FIT       usual you of the front according to IEC 6022     100 FIT       usual you of the front according to IEC 6022     100 FIT       usual you of the front according to IEC 6022     100 FIT       usual you of the front according to IEC 6022     100 FIT       usual you of the front according to IEC 6022     100 FIT       usual you of the front according to IEC 6022     100 FIT       usual you of the front according to IEC 6022     100 FIT       usual you of the front according to IEC 6022     100 FIT       usual you of the front according to IEC 6022     100 FIT       usual you of the front according to IEC 6022     100 FIT       usual you of the front according to IEC 6022     100 FIT       usual you of the front according to	<ul> <li>with low deman</li> </ul>	nd rate according to SN 3192	20	40 %			
Type Learning to provide the interval or service life according to IEC 60523       UP20         protection class IP on the front according to IEC 60523       UP20         earlier protection class IP on the front according to IEC 60523       UP20         earlier protection class IP on the front according to IEC 60523       UP20         earlier protection class IP on the front according to IEC 60523       UP20         earlier protection class IP on the front according to IEC 60523       UP20         earlier protection class IP on the front according to IEC 60529       UP20         earlier protection class IP on the front according to IEC 60529       UP20         earlier protection class IP on the front according to IEC 60529       UP20         EMC       Functional Sately/Sately of Marconde       Declaration of Conformity       Test Certificates         EMC       Functional Sately/Sately of Marconde       Declaration of Conformity       Test Certificates         EMC       Functional Sately/Sately of Marconde       Declaration of Conformity       Test Certificates         EMC       Functional Sately/Sately of Marconde       Declaration of Conformity       Test Certificates         EMC       Functional Sately/Sately of Marconde       Declaration of Conformity       Test Certificates         EMC       Functional Sately/Sately of Marconde       Declaration of Conformity       Test Certificate	<ul> <li>with high dema</li> </ul>	ind rate according to SN 319	20	73 %			
161050	failure rate [FIT] with	low demand rate according t	o SN 31920	100 FIT			
force protection on the forot according to IEC 80529       Inger-safe, for vertical contact from the forot         suitability for use       safety-cloids divicting OFF       Yes         setting-totaled subcling OFF       Yes       Efficient State St	T1 value for proof tes 61508	T1 value for proof test interval or service life according to IEC		20 a			
force protection on the forot according to IEC 80529       Inger-safe, for vertical contact from the forot         suitability for use       safety-cloids divicting OFF       Yes         setting-totaled subcling OFF       Yes       Efficient State St	protection class IP of	on the front according to IE	C 60529	IP20			
suitability for use • safe/related switching OFF • safe/related	-				from the front		
estimation product approval   Vestimation   General Product Approval   Confirmation   Variation on the problem   Confirmation   Confirmation   Variation on the problem   Confirmation   Variation on the problem <td>•</td> <td></td> <td></td> <td>iniger eare, for fortioal contact</td> <td></td> <td></td>	•			iniger eare, for fortioal contact			
and the second of the current EAC confirmation         KC         KC         KC         EMC         Second provide         KC         EMC         Second provide         Match colspan="2">KC         Second provide         Match colspan="2">KC         Second provide         Match colspan="2">Second provide         Match colspan="2">Second provide         Match colspan="2">Second provide         Match colspan="2">Second provide         Match colspan="2">Test Certificates         Match colspan="2">Second provide         Match colspan="2">Test Certificates         Match colspan="2">Second provide         Match colspan="2">Second provide         Second provide         Match colspan="2">Second provide         Match colspan="2">Second provide         Second provide         Confirmation         Confirmation         Match colspan="2">Second provide         Second provide	-	switching OFF		Yes			
General Product Approval       Confirmation       KC       Efficient         EMC       Functional chinegy       Declaration of Conformity       Tost Certificates         EMC       Functional chinegy       Declaration of Conformity       Tost Certificates         EMC       Functional chinegy       Declaration of Conformity       Tost Certificates         EMC       Functional chinegy       Type Examination Cert Utcate       Special Test Certific ates Test Report         Marine / Shipping       EMC       Special Test Certific ates Test Report       Type Test Certific ates Test Report         Marine / Shipping       EME       EME       Special Test Certific ates Test Report         Confirmation       EME       EME       EME       EME         Confirmation       EME       Environmental Con- firmations       Emere American State       Emere American State         State circle and and the protein test and	,	0		103			
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EMC       Safety/Safety of Main       Declaration of Conformity       Test Certificates         Image: Chinery       Image: Campanian Certification			<u>Confirmation</u>		KC	EAC	
Lifeste	EMC	Safety/Safety of Ma-	Declaration of C	conformity	Test Certificates		
Window Street       Window Street       Window Street       Window Street         other       Railway       Environment         Confirmation       Window Street       Environment         Confirmation       Confirmation       Vibration and Shock       Environmental Con- firmations         Stemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelases/siemens-wind-down-russian-business       Siemens is working on the renewal of the current EAC confirmation         Siemens is working on the renewal of the current EAC confirmation       Siemens is working on the renewal of the current EAC confirmation         Please contact your local Siemens sontice on the status of validity of the EAC certificates.       Rease contact your local Siemens sontice on the status of validity of the EAC certificates.         Please contact your local Siemens conficte on the status of validity of the EAC certificates.       Rease contact your local Siemens conficte on the status of validity of the EAC certificates.         Information on the packaging       Information and Downloadenter (Catalogs, Brochures,)         https://www.siemens.com/site/iew/109813875       Information Siemens.com/wind/wiew/109813875         Information and Downloadenter (Catalogs, Brochures,)       Information Siemens.com/wind/wiew/109813872023-1AV600         Service&Support (Manuals, Certificates, Characteristics, FAQs,)       Infor/support Latomation.Siemens.com/wind/sig8772023-1AV600         Indory Mail Conduc	RCM		UK CA	CE EG-Konf.			
Confirmation       Confirmation       Vibration and Shock       Environmental Con- firmations         urther information         Silemens has decided to exit the Russian market (see here). https://press.siemens.com/clobal/en/pressrelease/siemens-wind-down-russian-business         Silemens is working on the renewal of the current EAC certificates.         Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).         Information on the packaging         https://support.industry.siemens.com/cs/ww/en/view/109813875         Information- and Downloadcenter (Catalogs, Brochures,)         https://support.industry.siemens.com/MU/CAtalog/product?mlfb=3RT2023-1AV60         Car caling egenerator         http://support.automation.siemens.com/MW/CAXorder/default.aspx?lang=en&mlfb=3RT2023-1AV60         Service&Support (Manuals, Certificates, Characteristics, FAQs,)         http://support.industry.siemens.com/SiMW/en/0s/3RT2023-1AV60         Baredetabase (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)         http://support.industry.siemens.com/ibid/cax_de.aspx?mlfb=3RT2023-1AV60Alang=en         Characteristic: Tripping characteristics, FL, Let-through current         https://support.industry.siemens.com/ibid/cax_de.aspx?mlfb=3RT2023-1AV60Alang=en         Characteristic: (e.g. electrical endurance, s			<b>Ĵ</b> Å DNV	Lloyd's Register us	RINA	RMRS	
urther information         Siemens has decided to exit the Russian market (see here).         https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business         Siemens has decided to exit the Russian market (see here).         https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business         Siemens is working on the renewal of the current EAC certificates.         Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).         Information on the packaging         https://upport.industry.siemens.com/cs/ww/en/view/109813875         Information- and Downloadcenter (Catalogs, Brochures,)         https://upport.industry.siemens.com/cs/ww/en/Catalog/product?mifb=3RT2023-1AV60         Cax online generator         http://support.industry.siemens.com//SiNEV/CAXorder/default.aspx?lang=en&mlfb=3RT2023-1AV60         Service&Support (Manuals, Certificates, Characteristics, FAQs,)         https://support.industry.siemens.com/cs/ww/en/ps/3RT2023-1AV60         Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)         http://support.industry.siemens.com/SiNWen/ps/3RT2023-1AV60VAlang=en         Characteristic: Tripping characteristics, Pt, Let-through current         https://support.industry.siemens.com/bid/db/cax, de.aspx?mlfb=3RT2023-1AV6	other			Railway	Environment		
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