## SIEMENS

## Data sheet

## 3RT2027-1AK60



power contactor, AC-3e/AC-3, 32 A, 15 kW / 400 V, 3-pole, 110 V AC, 50 Hz / 120 V, 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	
size of contactor	SO
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	6.3 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	2.3 W
<ul> <li>without load current share typical</li> </ul>	2.7 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	8,3g / 5 ms, 5,3g / 10 ms
shock resistance with sine pulse	
● at AC	13,5g / 5 ms, 8,3g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	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	
<ul> <li>during operation</li> </ul>	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3

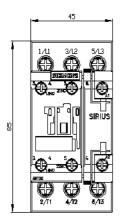
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	50 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	50 A
— up to 690 V at ambient temperature 60 °C rated	42 A
value	
• at AC-3	
— at 400 V rated value	32 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-3e	
— at 400 V rated value	32 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-4 at 400 V rated value	22 A
at AC-5a up to 690 V rated value	44 A
• at AC-5b up to 400 V rated value	26.5 A
• at AC-6a	20.0 A
— up to 230 V for current peak value n=20 rated value	30.8 A
— up to 400 V for current peak value n=20 rated value	30.8 A
— up to 500 V for current peak value n=20 rated value	27 A 21 A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> <li>at AC-6a</li> </ul>	21 A
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	20.5 A
— up to 400 V for current peak value n=30 rated value	20.5 A
— up to 500 V for current peak value n=30 rated value	18 A
— up to 690 V for current peak value n=30 rated value	18 A
minimum cross-section in main circuit at maximum AC-1 rated	10 mm <sup>2</sup>
value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	12 A
at 690 V rated value	12 A
operational current	
• at 1 current path at DC-1	
— 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
<ul> <li>with 2 current paths in series at DC-1</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	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
<ul> <li>with 3 current paths in series at DC-1</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	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>	

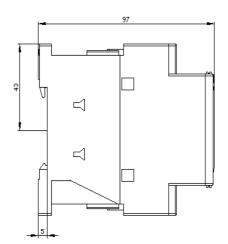
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V 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-3	
— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 500 V rated value	15 kW
— at 690 V rated value	18.5 kW
• at AC-3e	
— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 500 V rated value	15 kW
— at 690 V rated value	18.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	0.197
• at 400 V rated value	6 kW
at 690 V rated value	10.3 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	12.2 kVA
• up to 400 V for current peak value n=20 rated value	21.3 kVA
• up to 500 V for current peak value n=20 rated value	23.3 kVA
• up to 690 V for current peak value n=20 rated value	25 kVA
operating apparent power at AC-6a	0.4 10/4
• up to 230 V for current peak value n=30 rated value	8.1 kVA
<ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	14.2 kVA
<ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	14.2 kVA 15.5 kVA
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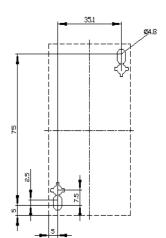
control supply voltage at AC	
• at 50 Hz rated value	110 V
at 60 Hz rated value	120 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	81 VA
• at 60 Hz	79 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.72
• at 60 Hz	0.74
apparent holding power of magnet coil at AC	
• at 50 Hz	10.5 VA
• at 60 Hz	8.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• 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	1A
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 100 V rated value	1A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 220 V rated value     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	
	27 A
at 480 V rated value	27 A
• at 600 V rated value	27 A
yielded mechanical performance [hp]	
- for single phase AO mater	
for single-phase AC motor     at 110(120 )/ retraining up to 1	2 hz
<ul> <li>for single-phase AC motor</li> <li>— at 110/120 V rated value</li> <li>— at 230 V rated value</li> </ul>	2 hp 5 hp

• for 3 phase AC motor			
<ul> <li>for 3-phase AC motor</li> <li>— at 200/208 V rated value</li> </ul>	10 hp		
— at 220/230 V rated value	10 hp		
— at 460/480 V rated value			
— at 575/600 V rated value	20 hp 25 hp		
contact rating of auxiliary contacts according to UL	A600 / P600		
Short-circuit protection	A0007 P000		
design of the fuse link			
-			
<ul> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> </ul>	gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA)		
— with type of assignment 2 required	gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (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	90. 10 A (000 V, 1 M)		
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and		
mounting position	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		
<ul> <li>side-by-side mounting</li> </ul>	Yes		
height	85 mm		
width	45 mm		
depth	97 mm		
required spacing			
• with side-by-side mounting			
— 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		
<ul> <li>for live parts</li> </ul>			
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	6 mm		
Connections/ Terminals			
type of electrical connection			
<ul> <li>for main current circuit</li> </ul>	screw-type terminals		
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals		
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals		
• of magnet coil	Screw-type terminals		
type of connectable conductor cross-sections for main contacts			
• solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)		
<ul> <li>solid or stranded</li> </ul>	2x (1 2.5 mm²), 2x (2.5 10 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>	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 mm <sup>2</sup>		
<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	10 0		
for main contacts	16 8		

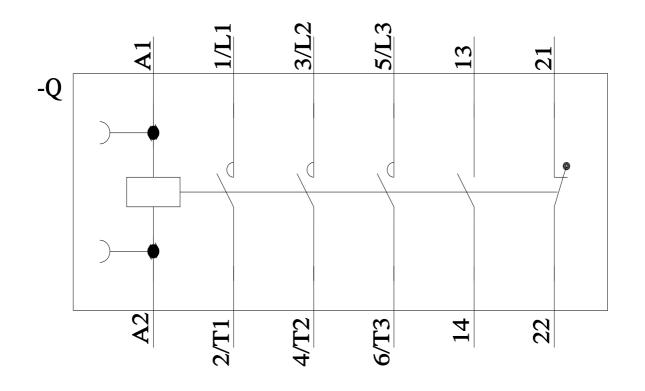
Safety related data         product function         • mirror contact according to IEC 60947-4-1         Suitability for use safety-related switching OFF         B10 value with high demand rate according to SN 31920         • with low demand rate according to SN 31920         • with low demand rate according to SN 31920         • with low demand rate according to SN 31920         • with low demand rate according to SN 31920         • with low demand rate according to SN 31920         • with low demand rate according to SN 31920         • with low demand rate according to IEC 60529         failure rate [FIT] with low demand rate according to IEC 60529         IP20         touch protection class IP on the front according to IEC 60529         IP20         touch protection on the front according to IEC 60529         IP20         touch protection on the front according to IEC 60529         IP20         touch protection on the front according to IEC 60529         General Product Approval         KC         General Product Approval         KC         EMC       Functional Safety/Safety of Maccordinery         Declaration of Conformity       Test Certificates         Type Examination Cerc       Special Test Certific.	<ul> <li>for auxiliary co</li> </ul>	ontacts		20 14				
product function  • mitric contract according to IEC 60927.4.1 Yes  • addebily for use anticy-related switching OFF  • 490 000  • The standard for according to SN 31920 • 490 000  • ath his demand rate according to SN 31920 • ath his demand rate according to SN 31920 • ath his demand rate according to SN 31920 • ath his demand rate according to SN 31920 • ath his demand rate according to SN 31920 • ath his demand rate according to SN 31920 • ath his demand rate according to SN 31920 • ath his demand rate according to SN 31920 • ath his demand rate according to SN 31920 • ath his demand rate according to SN 31920 • ath his demand rate according to SN 31920 • ath his demand rate according to SN 31920 • ath his demand rate according to SN 31920 • ath his demand rate according to IEC 6052 • IP20 • touch protection on the front according to IEC 6052 • IP20 • touch protection on the front according to IEC 6052 • IP20 • touch protection and the conduction • ath according to IEC 6052 • IP20 • touch protection • ath according to IEC 6052 • IP20 • touch protection • atter SN ather of the front according to IEC 6052 • IP20 • touch protection • atter Infinite • atter Infin	,							
• existing contract according to EC 6007-11     Yes       subtability for use address watching OFF     Yes       • existing contract according to SN 31020     450 000       • existing contract according to SN 31020     73 %       • with with demand rate according to SN 31020     73 %       • with with demand rate according to SN 31020     73 %       • with with demand rate according to SN 31020     73 %       • with with demand rate according to EC 60523     1720       • protection class IP on the forta according to EC 60523     1720       • protection class IP on the forta according to EC 60523     1720       • protection class IP on the forta according to EC 60523     1720       • Continuation     Continuation     Continuation       • Continuation     Continuation	-							
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B10 value with high demand rate according to SN 31202       450 000         proportion of dangerous failures       400 %         • with low demand rate according to SN 31202       73 %         • With low demand rate according to SN 31202       100 FT         Ti value for profit with value dama rate according to SN 31202       100 FT         Ti value for profit with value dama rate according to SN 31202       100 FT         Ti value for profit on the fort according to EC 6023       1020         protection class IP on the fort according to EC 6023       100 FT         Centification Status       Continuation       Continuation         Centification Status       Continuation       Continuation         Centification Status       Continuation       Continuation       Continuation         Centification Status       Continuation       Continuation       Continuation       Continuation         Centification Status       Continuation       Continuation       Continuation       Continuation       Continuation         Continuation Contin				Yes				
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<ul> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>Ta with low demand rate according to SN 31920</li> <li>Ta with low demand rate according to SN 31920</li> <li>The with low demand rate according to SN 31920</li> <li>The with low demand rate according to SN 31920</li> <li>The with low demand rate according to SN 31920</li> <li>The with low demand rate according to SN 31920</li> <li>The with low demand rate according to SN 31920</li> <li>The with low demand rate according to SN 31920</li> <li>The with low demand rate according to SN 31920</li> <li>The with low demand rate according to SN 31920</li> <li>The with low demand rate according to SN 31920</li> <li>The with low demand rate according to SN 31920</li> <li>The with low demand rate according to SN 31920</li> <li>The state of the front according to SN 31920</li> <li>The state of the front according to SN 31920</li> <li>The state of the front according to SN 31920</li> <li>The state of the front according to SN 31920</li> <li>The state of the front according to SN 31920</li> <li>The state of the front according to SN 31920</li> <li>The state of the front according to SN 31920</li> <li>The state of the front according to SN 31920</li> <li>The state of the front according to SN 31920</li> <li>The state of the front according to SN 31920</li> <li>The state of the front according to SN 31920</li> <li>The state of the front according to SN 31920</li> <li>The state of the front according to SN 31920</li> <li>The state of the front according to SN 31920</li> <li>The state of the front according to SN 31920</li> <li>The state of the front according to SN 31920</li> <li>The state of the front according to SN 31920</li> <li>The state of the front according to SN 31920</li> <li>The state of the front according to SN 31920</li> <li>The state of the front according to SN</li></ul>								
•• • • • • • high demand rate according to \$19 13200     73 %       failure rate [F[7] with how demand rate according to \$16 C     20 a       1 value for port test interval or service life according to \$16 C     20 a       1 value for port test interval or service life according to \$16 C     80 F       restored to an the front according to \$16 C     60520       1 value for port test interval or service life according to \$16 C     60520       1 value for port test interval or service life according to \$16 C     60520       1 value for port test interval or service life according to \$16 C     60520       1 value for port test interval or service life according to \$16 C     60520       1 value for port test interval or service life according to \$16 C     60520       1 value for port test interval or service life according to \$16 C     60520       1 value for port test interval or service life according to \$16 C     60520       1 value for port test interval or service life according to \$16 C     60520       1 value for port test interval or service life according to \$16 C     60520       1 value for port test interval or service life according to \$16 C     60520       1 value for port test interval or service life according to \$16 C     60520       1 value for port test interval or service life according to \$16 C     60520       1 value for port test interval or service life according to \$16 C     60520       1 value for port test interval or servic				40 %				
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Ingersafe, for vertical contact from the front         Continuation on the front according to ECG 00520         Continuation on the front according to ECG 00520         Continuation on the front according to ECG 00520         Continuation         Continuation         Continuation         Continuation         Continuation         Continuation         Continuation of Conforminy         Test Certificates         Continuation of Conforminy         Test Certificates         Configuration of Conforminy         Test Certificates         Special Test Certificates         Type Francington Cert         Configuration         Configuration <td <="" colspan="2" td=""><td>•</td><td></td><td></td><td></td><td></td><td></td></td>	<td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td>		•					
Contract Product Approval         General Product Approval         Genetral	protection class IP	on the front according to I	EC 60529	IP20				
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Confirmation       Confirmation       Vibration and Shock       Environmental Confirmations         Stemens 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 EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).         Information on the packaging       https://www.siemens.com/cs/ww/en/view/109813875         Information- and Downloadcenter (Catalogs, Brochures,)       https://www.siemens.com/ratificates, Characteristics, FAQs)         https://support.automation.siemens.com/MW/CAXorder/default.aspx?lang=en&mlfb=3RT2027-1AK60       Cax online generator         https://support.industry.siemens.com/SiMW//OF/SIRT2027-1AK60       Service&Support (Manuals, Certificates, Characteristics, FAQs)         https://support.industry.siemens.com/bildb/cax_de.aspx?lmfb=3RT2027-1AK60       Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)         http://www.automation.siemens.com/bildb/cax_de.aspx?ntfb=3RT2027-1AK60&Siang=en       Characteristics, I*1, Let-through current         https://www.siemens.com/bildb/cax_de.aspx?nthb=3RT2027-1AK60&Siang=en       C				Llovd's Register urs	RINA	KMRS		
Further information         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 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://www.siemens.com/cs/ww/en/view/109813875         Information- and Downloadcenter (Catalogy, Brochures,)         https://www.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2027-1AK60         Cax online generator         https://support.automation.siemens.com/WV/CAXorder/default.aspx?lang=en&mlfb=3RT2027-1AK60         Service&Support (Manuals, Certificates, Characteristics, FAQs,)         https://support.industry.siemens.com/S/sW/en/ps/3RT2027-1AK60         Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)         http://www.automation.siemens.com/bilddb/cax_de_aspx?mlfb=3RT2027-1AK60⟨=en         Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)         http://www.automation.siemens.com/bildb/cax_de_aspx?mlfb=3RT2027-1AK	other			Railway	Environment			
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 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://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/Catalog/product?mlfb=3RT2027-1AK60 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2027-1AK60 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-1AK60 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bildb/cax_de.aspx?mlfb=3RT2027-1AK60& Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://support.industry.siemens.com/bildb/cax_de.aspx?mlfb=3RT2027-1AK60& Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)	Confirmation		<u>Confirmation</u>	n Vibration and Shock				
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