# **SIEMENS**

Data sheet 3RT1054-1AR36



power contactor, AC-3e/AC-3 115 A, 55 kW / 400 V, AC (50-60 Hz) / DC Uc: 440-480 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: box terminal control and auxiliary circuit: screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S6
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>	21 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	7 W
<ul> <li>without load current share typical</li> </ul>	5.2 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	500 V
surge voltage resistance	
of main circuit rated value	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	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)	05/01/2012
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 maximum	95 %

Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	1 000 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	1 000 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	160 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	160 A
<ul> <li>up to 690 V at ambient temperature 60 °C rated value</li> </ul>	140 A
<ul> <li>up to 1000 V at ambient temperature 40 °C rated value</li> </ul>	80 A
<ul> <li>up to 1000 V at ambient temperature 60 °C rated value</li> </ul>	80 A
• at AC-3	
— at 400 V rated value	115 A
— at 500 V rated value	115 A
— at 690 V rated value	115 A
— at 1000 V rated value	53 A
• at AC-3e	
— at 400 V rated value	115 A
— at 500 V rated value	115 A
— at 690 V rated value	115 A
<ul><li>— at 1000 V rated value</li></ul>	53 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	97 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	140 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	95 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	115 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	115 A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	115 A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	115 A
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> </ul>	53 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	98 A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	98 A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	98 A
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	98 A
— up to 1000 V for current peak value n=30 rated value	53 A
minimum cross-section in main circuit at maximum AC-1 rated value	70 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	54.4
at 400 V rated value	54 A
• at 690 V rated value	48 A
operational current	
• at 1 current path at DC-1	400 A
— at 24 V rated value	160 A
— at 60 V rated value	160 A
— at 110 V rated value	18 A
— at 220 V rated value	3.4 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.5 A

with 2 current paths in series at DC-1	400 A
— at 24 V rated value	160 A
— at 60 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	20 A
— at 440 V rated value	3.2 A
— at 600 V rated value	1.6 A
with 3 current paths in series at DC-1	400 A
— at 24 V rated value	160 A
— at 60 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	11.5 A 4 A
— at 600 V rated value	4 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> <li>at 24 V rated value</li> </ul>	160 A
— at 60 V rated value	7.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.17 A
— at 600 V rated value	0.12 A
with 2 current paths in series at DC-3 at DC-5	
— at 24 V rated value	160 A
— at 60 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	160 A
— at 60 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
• at AC-3	
— at 230 V rated value	37 kW
— at 400 V rated value	55 kW
— at 500 V rated value	75 kW
— at 690 V rated value	110 kW
— at 1000 V rated value	75 kW
• at AC-3e	
— at 230 V rated value	37 kW
— at 400 V rated value	55 kW
— at 500 V rated value	75 kW
— at 690 V rated value	110 kW
— at 1000 V rated value	75 kW
operating power for approx. 200000 operating cycles at AC-4	
at 400 V rated value	29 kW
at 400 V rated value     at 690 V rated value	48 kW
operating apparent power at AC-6a	TO INV
• up to 230 V for current peak value n=20 rated value	40 000 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	80 000 VA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	100 000 VA
up to 690 V for current peak value n=20 rated value  rated value  rated value	130 000 VA
up to 1000 V for current peak value n=20 rated value     value	90 000 VA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	30 000 VA
up to 400 V for current peak value n=30 rated value	60 000 VA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	80 000 VA
• up to 690 V for current peak value n=30 rated value	110 000 VA
• up to 1000 V for current peak value n=30 rated	90 000 VA
value	

#### short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum 2 565 A; Use minimum cross-section acc. to AC-1 rated value • limited to 5 s switching at zero current maximum 1 654 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 1 170 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 729 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 572 A; Use minimum cross-section acc. to AC-1 rated value no-load switching frequency 2 000 1/h at AC 2 000 1/h at DC operating frequency at AC-1 maximum 800 1/h • at AC-2 maximum 400 1/h • at AC-3 maximum 1 000 1/h • at AC-3e maximum 1 000 1/h • at AC-4 maximum 130 1/h **Control circuit/ Control** type of voltage of the control supply voltage AC/DC control supply voltage at AC • at 50 Hz rated value 440 ... 480 V • at 60 Hz rated value 440 ... 480 V control supply voltage at DC 440 ... 480 V • rated value operating range factor control supply voltage rated value of magnet coil at DC 0.8 initial value • full-scale value 1.1 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 design of the surge suppressor with varistor apparent pick-up power of magnet coil at AC 300 VA • at 50 Hz 300 VA • at 60 Hz inductive power factor with closing power of the coil at 50 Hz 0.9 • at 60 Hz 0.9 apparent holding power of magnet coil at AC • at 50 Hz 5.8 VA 5.8 VA at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz 0.8 0.8 • at 60 Hz 360 W closing power of magnet coil at DC holding power of magnet coil at DC 5.2 W closing delay 20 ... 95 ms at AC • at DC 20 ... 95 ms opening delay at AC 40 ... 60 ms at DC 40 ... 60 ms 10 ... 15 ms arcing time control version of the switch operating mechanism Standard A1 - A2 number of NC contacts for auxiliary contacts 2 instantaneous contact number of NO contacts for auxiliary contacts 2 instantaneous contact operational current at AC-12 maximum 10 A operational current at AC-15 6 A • at 230 V rated value 3 A at 400 V rated value at 500 V rated value

<ul> <li>at 690 V rated value</li> </ul>	1 A			
operational current at DC-12				
<ul> <li>at 24 V rated value</li> </ul>	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			
<ul> <li>at 600 V rated value</li> </ul>	0.15 A			
operational current at DC-13				
<ul> <li>at 24 V rated value</li> </ul>	10 A			
<ul> <li>at 48 V rated value</li> </ul>	2 A			
<ul> <li>at 60 V rated value</li> </ul>	2 A			
at 110 V rated value	1A			
at 125 V rated value				
at 220 V rated value	0.9 A			
	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				
at 480 V rated value	124 A			
at 400 V rated value     at 600 V rated value	125 A			
	12071			
yielded mechanical performance [hp]				
• for single-phase AC motor				
— at 230 V rated value	25 hp			
<ul> <li>for 3-phase AC motor</li> </ul>				
<ul> <li>at 200/208 V rated value</li> </ul>	40 hp			
<ul> <li>— at 220/230 V rated value</li> </ul>	50 hp			
<ul> <li>at 460/480 V rated value</li> </ul>	100 hp			
— at 575/600 V rated value	125 hp			
contact rating of auxiliary contacts according to UL	A600 / Q600			
	7000 / Q000			
Short-circuit protection				
design of the fuse link				
design of the fuse link	gG: 355 A (690 V, 100 kA)			
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required				
design of the fuse link  • for short-circuit protection of the main circuit	gG: 355 A (690 V, 100 kA) gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA)			
design of the fuse link  ● for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required	gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA)			
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415			
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required	gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA)			
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions	gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)			
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required	gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting			
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position	gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back			
design of the fuse link	gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing			
design of the fuse link	gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes			
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting height	gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm			
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting height width	gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm			
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting height	gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm			
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design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting height width depth	gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm			
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design of the fuse link         • for short-circuit protection of the main circuit             — with type of coordination 1 required             — with type of assignment 2 required              • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method         • side-by-side mounting height width depth required spacing         • with side-by-side mounting         — forwards         — upwards	gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm			
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design of the fuse link         • for short-circuit protection of the main circuit             — with type of coordination 1 required             — with type of assignment 2 required              • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method         • side-by-side mounting height width depth required spacing         • with side-by-side mounting             — forwards             — upwards             — downwards             — at the side	gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm			
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design of the fuse link         • for short-circuit protection of the main circuit             — with type of coordination 1 required             — with type of assignment 2 required              • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method         • side-by-side mounting height width depth required spacing         • with side-by-side mounting             — forwards             — upwards             — at the side             • for grounded parts             — upwards             — at the side             — downwards             — for live parts	gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 172 mm 120 mm 170 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm			
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### type of electrical connection • for main current circuit box terminal · for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts max. 1x 50, 1x 70 mm<sup>2</sup> stranded solid or stranded max. 1x 50, 1x 70 mm<sup>2</sup> • finely stranded with core end processing max. 1x 50, 1x 70 mm<sup>2</sup> • finely stranded without core end processing max. 1x 50, 1x 70 mm<sup>2</sup> connectable conductor cross-section for main contacts stranded 16 ... 70 mm<sup>2</sup> 16 ... 70 mm<sup>2</sup> • finely stranded with core end processing • finely stranded without core end processing 16 ... 70 mm<sup>2</sup> connectable conductor cross-section for auxiliary contacts 0.5 ... 4 mm<sup>2</sup> solid or stranded • finely stranded with core end processing 0.5 ... 2.5 mm<sup>2</sup> type of connectable conductor cross-sections • for auxiliary contacts - solid 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²) - solid or stranded 2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), max. 2x (0,75 ... 4 mm²) - finely stranded with core end processing 2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>) • at AWG cables for auxiliary contacts 2x (20 ... 16), 2x (18 ... 14), 1x 12 AWG number as coded connectable conductor cross

<ul> <li>for auxiliary contacts</li> </ul>	18 14
Safety related data	
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
<ul> <li>positively driven operation according to IEC 60947- 5-1</li> </ul>	No
B10 value with high demand rate according to SN 31920	1 000 000
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
suitability for use	
<ul> <li>safety-related switching OFF</li> </ul>	Yes

# Certificates/ approvals

section

## **General Product Approval**





Confirmation



<u>KC</u>



Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
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**Type Examination** Certificate





Type Test Certificates/Test Report

**Special Test Certific-**<u>ate</u>

Marine / Shipping other













other			Railway	
Confirmation	<u>Miscellaneous</u>	Confirmation	Vibration and Shock	Special Test Certificate

## **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=3RT1054-1AR36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1054-1AR36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-1AR36

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

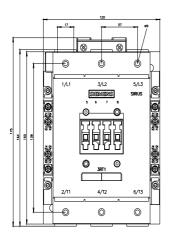
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1054-1AR36&lang=en

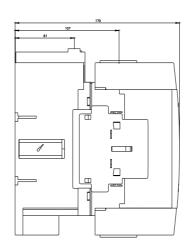
Characteristic: Tripping characteristics, I2t, Let-through current

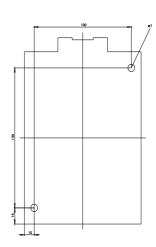
https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-1AR36/char

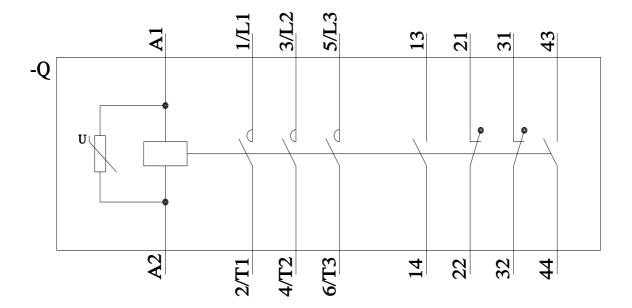
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1054-1AR36&objecttype=14&gridview=view1









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