## **SIEMENS**

Data sheet 3RT2336-1AB00



contactor AC-1, 60 A, 400 V / 40  $^{\circ}$ C, 4-pole, 24 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal

product brand name	SIRIUS	
product designation	Contactor	
product type designation	3RT23	
General technical data		
size of contactor	S2	
product extension		
<ul> <li>function module for communication</li> </ul>	No	
<ul><li>auxiliary switch</li></ul>	Yes	
power loss [W] for rated value of the current		
<ul> <li>at AC in hot operating state</li> </ul>	12.8 W	
<ul> <li>at AC in hot operating state per pole</li> </ul>	3.2 W	
insulation voltage		
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V	
<ul> <li>of the auxiliary and control 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	
shock resistance at rectangular impulse		
• at AC	11.8g / 5 ms, 7.4g / 10 ms	
shock resistance with sine pulse		
• at AC	18.5g / 5 ms, 11.6g / 10 ms	
mechanical service life (operating cycles)		
<ul> <li>of contactor typical</li> </ul>	10 000 000	
<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)	10/01/2014	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
<ul> <li>during operation</li> </ul>	-40 +70 °C	
<ul> <li>during storage</li> </ul>	-55 +80 °C	
relative humidity minimum	10 %	
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %	
Main circuit		
	1	
number of poles for main current circuit	4	
number of NO contacts for main contacts	4	
<ul> <li>operational current</li> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	60 A	

	• at AC-1	
rated value  — up to 800 Y at ambient temperature 60 °C rated value  at AC-3  — at 400 V rated value  minimum cross-section in main circuit at maximum AC-1 rated value  short-lime withstand current in cold operating state up to 40 °C  il mitted to 1 s switching at zero current maximum  il mitted to 6 s switching at zero current maximum  il mitted to 6 s switching at zero current maximum  il mitted to 6 s switching at zero current maximum  il mitted to 6 s switching at zero current maximum  il mitted to 6 s switching at zero current maximum  il mitted to 6 s switching at zero current maximum  il mitted to 6 s switching at zero current maximum  il mitted to 6 s switching at zero current maximum  il mitted to 6 s switching at zero current maximum  il mitted to 6 s switching at zero current maximum  il mitted to 6 s switching at zero current maximum  il mitted to 6 s switching at zero current maximum  il mitted to 6 s switching at zero current maximum  il mitted to 6 s switching at zero current		60 A
up to 980 V at ambient temperature 60 °C rated value  • at AC-3  at 400 V rated value  minimum cross-section in main circuit at maximum AC-1 rated value  minimum cross-section in main circuit at maximum AC-1 rated value  value of 0°C  • limited to 1 s switching at zero current maximum  • limited to 1 s switching at zero current maximum  • limited to 10 s switching at zero current maximum   • limited to 10 switching at zero current maximum     value		OV A
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rated value short-lime withstand current in cold operating state up to 40 °C  i limited to 1 s switching at zero current maximum i limited to 50 s switching at zero current maximum i limited to 30 s switching at zero current maximum i limited to 50 s switching at zero current maximum i limited to 50 s switching at zero current maximum i limited to 50 switching at zero current maximum i limited to 50 switching at zero current maximum i limited to 50 switching at zero current maximum i limited to 50 switching in zero current maximum i limited to 50 switching in zero current at 24 V		
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Imitled to 10 s switching at zero current maximum   Use minimum cross-section acc. to AC-1 rated value   Use minimum cross-section acc.	•	
Illimited to 30 s switching at zero current maximum   Use minimum cross-section acc. to AC-1 rated value   Os 000 1/h   Os 00 1/h	_	
Mimited to 60 s switching at zero current maximum no-load switching frequency     at AC     operating frequency at AC-1 maximum     type of voltage     type of voltage of the control supply voltage control supply voltage at AC     at 50 Hz rated value     operating range factor control supply voltage rated value of magnet coil at AC     at 50 Hz     apparent pick-up power of magnet coil at AC     at 50 Hz     apparent holding power of magnet coil at AC     at 50 Hz     apparent holding power of magnet coil at AC     at 50 Hz     apparent holding power of magnet coil at AC     at 50 Hz     apparent holding power of magnet coil at AC     at 50 Hz     apparent holding power of magnet coil at AC     at 50 Hz     at 50 Hz     at 50 Hz     at 50 Hz     at AC     operating delay     at AC     at AC     operating time     control version of the switch operating mechanism     at AC     at a	_	
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coil  at 50 Hz  closing delay  at AC  opening delay  at AC  arcing time  control version of the switch operating mechanism  control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts  attachable  instantaneous contact  number of NO contacts for auxiliary contacts  attachable  instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value  at 400 V rated value  at 690 V rated value	● at 50 Hz	16 VA
at 50 Hz closing delay at AC opening delay at AC to 10 80 ms  opening delay at AC arcing time control version of the switch operating mechanism  Control version of the switch operating mechanism  Example of NC contacts for auxiliary contacts attachable attach	inductive power factor with the holding power of the	
closing delay		
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opening delay		
<ul> <li>at AC</li> <li>arcing time</li> <li>control version of the switch operating mechanism</li> <li>Standard A1 - A2</li> </ul> Auxiliary circuit <ul> <li>number of NC contacts for auxiliary contacts</li> <li>attachable</li> <li>instantaneous contact</li> <li>number of NO contacts for auxiliary contacts</li> <li>attachable</li> <li>attachable</li> <li>instantaneous contact</li> <li>instantaneous contact</li> <li>operational current at AC-12 maximum</li> <li>operational current at AC-15</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>at 690 V rated value</li> <li>at DC-12</li> </ul>		10 80 ms
arcing time control version of the switch operating mechanism  Standard A1 - A2  Auxiliary circuit  number of NC contacts for auxiliary contacts  attachable instantaneous contact  attachable attacha		40 40
control version of the switch operating mechanism  Standard A1 - A2  Auxiliary circuit  number of NC contacts for auxiliary contacts  • attachable  • instantaneous contact  number of NO contacts for auxiliary contacts  • attachable  • attachable  • instantaneous contact  • instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value  • at 690 V rated value  operational current at DC-12		
number of NC contacts for auxiliary contacts  • attachable • instantaneous contact  number of NO contacts for auxiliary contacts  • attachable • attachable • instantaneous contact  • instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value  operational current at DC-12	-	
number of NC contacts for auxiliary contacts  attachable  instantaneous contact  number of NO contacts for auxiliary contacts  attachable  instantaneous contact  instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  at 230 V rated value  at 400 V rated value  at 500 V rated value  at 690 V rated value		Standard AT - AZ
<ul> <li>attachable</li> <li>instantaneous contact</li> <li>number of NO contacts for auxiliary contacts</li> <li>attachable</li> <li>instantaneous contact</li> <li>operational current at AC-12 maximum</li> <li>operational current at AC-15</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> &lt;</ul>		
<ul> <li>instantaneous contact</li> <li>number of NO contacts for auxiliary contacts</li> <li>attachable</li> <li>instantaneous contact</li> <li>operational current at AC-12 maximum</li> <li>operational current at AC-15</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated va</li></ul>	-	
number of NO contacts for auxiliary contacts  • attachable  • instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value  • at 690 V rated value  operational current at DC-12		
<ul> <li>attachable</li> <li>instantaneous contact</li> <li>operational current at AC-12 maximum</li> <li>operational current at AC-15</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rat</li></ul>		
<ul> <li>instantaneous contact</li> <li>operational current at AC-12 maximum</li> <li>operational current at AC-15</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>at</li></ul>	-	
operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value  operational current at DC-12		
operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value  operational current at DC-12		
<ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>at 690 V rated value</li> <li>at 690 V rated value</li> </ul>		
<ul> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>1 A</li> </ul> Operational current at DC-12		10 A
<ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>1 A</li> </ul> operational current at DC-12		
• at 690 V rated value 1 A  operational current at DC-12		
operational current at DC-12		
at 24 V rated value     10 A	·	10 A
at 48 V rated value     6 A	at 48 V rated value	6 A
at 60 V rated value     6 A	• at 60 V rated value	6 A
• at 110 V rated value 3 A	• at 110 V rated value	3 A
• at 125 V rated value 2 A	• at 125 V rated value	2 A
• at 220 V rated value 1 A	at 220 V rated value	1 A
• at 600 V rated value 0.15 A	• at 600 V rated value	0.15 A
operational current at DC-13	-	
at 24 V rated value  10 A	at 24 V rated value	10 A

at 48 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
at 220 V rated value     at 600 V rated value	0.3 A 0.1 A
<ul> <li>at 600 V rated value</li> <li>design of the miniature circuit breaker for short-circuit</li> </ul>	gG: 10 A (230 V, 400 A)
protection of the auxiliary switch required	90. 10 A (230 V, 400 A)
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
product function short circuit protection	No
design of the fuse link	
for short-circuit protection of the main circuit	
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 160 A (690 V, 100 kA)
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 63 A (690 V,100 kA)
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	gG: 10 A (690 V, 1 kA)
required	
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
<ul> <li>side-by-side mounting</li> </ul>	Yes
height	114 mm
width	75 mm
depth	130 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
• for grounded parts	40
— forwards	10 mm
— upwards — at the side	10 mm 6 mm
— downwards	10 mm
for live parts	10 11111
— 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
<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 or stranded	2x (1 35 mm²), 1x (1 50 mm²)
finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)
connectable conductor cross-section for main contacts	
solid or stranded	1 50 mm²
finely stranded with core end processing	1 35 mm <sup>2</sup>
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
finely stranded without core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	

- solid 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) - solid or stranded - finely stranded with core end processing 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) • at AWG cables for auxiliary contacts 2x (20 ... 16), 2x (18 ... 14) AWG number as coded connectable conductor cross section 18 ... 1 · for main contacts • for auxiliary contacts 20 ... 14 Safety related data product function • mirror contact according to IEC 60947-4-1 Yes

No

20 a

IP20

5-1
T1 value for proof test interval or service life according to

• positively driven operation according to IEC 60947-

IEC 61508
protection class IP on the front according to IEC

60529

touch protection on the front according to IEC 60529

ommunication/ Protocol

Certificates/ approvals

## **General Product Approval**

product function bus communication





Confirmation



finger-safe, for vertical contact from the front

<u>KC</u>



Functional
EMC Safety/Safety of Declaration of Conformity Test Certificates
Machinery



Type Examination Certificate





Special Test Certificate Type Test Certificates/Test Report

## Marine / Shipping













Marine / Shipping other Railway Dangerous Good



Confirmation

Vibration and Shock

<u>Transport Information</u>

## **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=3RT2336-1AB00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2336-1AB00

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

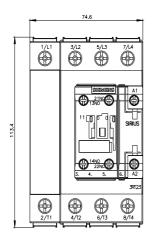
https://support.industry.siemens.com/cs/ww/en/ps/3RT2336-1AB00

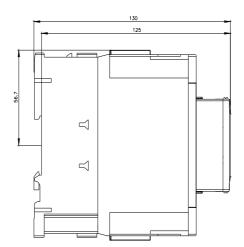
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2336-1AB00&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2336-1AB00&lang=en</a>

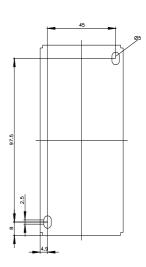
Characteristic: Tripping characteristics, I2t, Let-through current

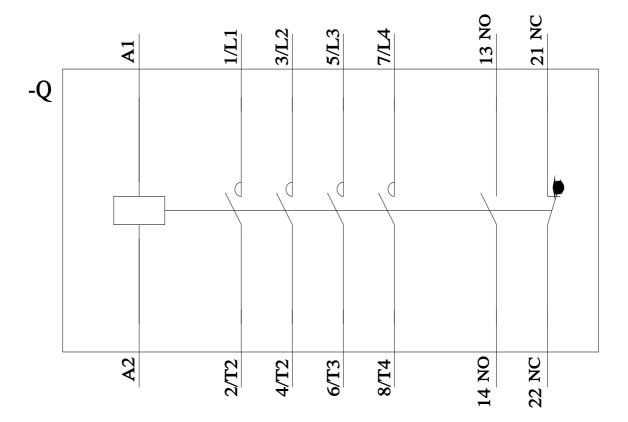
https://support.industry.siemens.com/cs/ww/en/ps/3RT2336-1AB00/char

Further characteristics (e.g. electrical endurance, switching frequency) <a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2336-1AB00&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2336-1AB00&objecttype=14&gridview=view1</a>









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