## SIEMENS

## Data sheet

## 3RT2336-1AC20



contactor AC-1, 60 A, 400 V / 40 °C, 4-pole, 24 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2

5/18	
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
auxiliary switch	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
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	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				
up to 690 V at ambient temperature 40 °C rated	60 A			
value	60 A			
— up to 690 V at ambient temperature 60 °C rated value	55 A			
• at AC-3				
— at 400 V rated value	38 A			
minimum cross-section in main circuit at maximum AC-1 rated value	16 mm²			
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>	Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	Use minimum cross-section acc. to AC-1 rated value			
no-load switching frequency				
• at AC	5 000 1/h			
operating frequency at AC-1 maximum	700 1/h			
Control circuit/ Control				
type of voltage	AC			
type of voltage of the control supply voltage	AC			
control supply voltage at AC				
• at 50 Hz rated value	24 V			
• at 60 Hz rated value	24 V			
operating range factor control supply voltage rated value of magnet coil at AC				
● at 50 Hz	0.8 1.1			
• at 60 Hz	0.85 1.1			
apparent pick-up power of magnet coil at AC				
• at 50 Hz	210 VA			
• at 60 Hz	188 VA			
inductive power factor with closing power of the coil				
● at 50 Hz	0.69			
• at 60 Hz	0.65			
apparent holding power of magnet coil at AC				
● at 50 Hz	17.2 VA			
• at 60 Hz	16.5 VA			
inductive power factor with the holding power of the coil				
● at 50 Hz	0.36			
• at 60 Hz	0.39			
closing delay				
• at AC	10 80 ms			
opening delay				
• at AC	10 18 ms			
arcing time	10 20 ms			
control version of the switch operating mechanism	Standard A1 - A2			
Auxiliary circuit				
number of NC contacts for auxiliary contacts	1			
attachable	2			
instantaneous contact	1			
number of NO contacts for auxiliary contacts	1			
attachable	2			
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			

<ul> <li>at 48 V rated value</li> </ul>	6 A			
<ul> <li>at 60 V rated value</li> </ul>	6 A			
<ul> <li>at 110 V rated value</li> </ul>	3 A			
<ul> <li>at 125 V rated value</li> </ul>	2 A			
<ul> <li>at 220 V rated value</li> </ul>	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 110 V rated value	1 A			
• at 125 V rated value	0.9 A			
at 220 V rated value	0.3 A			
at 600 V rated value	0.1 A			
design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required	gG: 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				
<ul> <li>for short-circuit protection of the main circuit</li> </ul>				
— with type of coordination 1 required	gG: 160 A (690 V, 100 kA)			
— with type of assignment 2 required	gG: 63 A (690 V,100 kA)			
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (690 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			
<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			
<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			
of magnet coil	Screw-type terminals			
type of connectable conductor cross-sections for main contacts	orew type terminate			
solid or stranded	$2x (1 - 35 \text{ mm}^2) 1x (1 - 50 \text{ mm}^2)$			
	$2x (1 35 \text{ mm}^2), 1x (1 50 \text{ mm}^2)$ $2x (1 25 \text{ mm}^2) 1x (1 25 \text{ mm}^2)$			
finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)			
connectable conductor cross-section for main contacts	4 50 mm²			
solid or stranded	1 50 mm <sup>2</sup>			
<ul> <li>finely stranded with core end processing</li> </ul>	1 35 mm²			

r cross-section for auxil th core end processing thout core end processing nductor cross-sections cts ided ed with core end processi	0.5 0.5 0.5 2x (	2.5 mm <sup>2</sup> 2.5 mm <sup>2</sup> 2.5 mm <sup>2</sup>			
hout core end processing nductor cross-sections cts ided ed with core end processi	0.5 0.5 2x (	2.5 mm <sup>2</sup> 2.5 mm <sup>2</sup>			
hout core end processing nductor cross-sections cts ided ed with core end processi	9 0.5 2x 1	2.5 mm²			
nductor cross-sections cts ided ed with core end processi	2x (				
cts Ided ed with core end processi	2x	(0.5			
ided ed with core end processi		(0.5 <u>1.5 mm²</u> ) 0x (0.75			
ed with core end processi		$(0 E - 1 E max^2) - 0x (0 ZE)$			
ed with core end processi	27	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
	28	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
	ing 2x	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
or auxiliary contacts	2x	2x (20 16), 2x (18 14)			
I connectable conducto					
	18	18 1			
cts	20	20 14			
ording to IEC 60947-4-1	Yes	3			
-	60947-5-1 No				
	2011.g to 120	20 4			
on class IP on the front according to IEC 60529		IP20			
e front according to IEC	60529 fing	finger-safe, for vertical contact from the front			
bl					
ommunication	No				
				LHL	
Functional Safety/Safety of Ma- chinery	Declaration of Conf	ormity	Test Certificates		
Type Examination Cer- tificate	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	Special Test Certific- ate	
BUREAU VERITAS		Lloyd's Register urs	PRS	RINA	
other	Railway	Dangerous Good	Environment		
<u>Confirmation</u>	Vibration and Shock	Transport Information	Environmental Con- firmations		
	terval or service life accord the front according to IE e front according to IEC on munication owal Confirmation Functional Safety/Safety of Ma- chinery Type Examination Cer- tificate	peration according to IEC 60947-5-1       No         terval or service life according to IEC       20         the front according to IEC 60529       IP2         of front according to IEC 60529       fing         of front according to IEC 60529       fing         ommunication       No         oval       Confirmation         Confirmation       Declaration of Conf         Type Examination Certificate       UK         tificate       Image: Confirmation Certificate         tificate       Image: Certif	periation according to IEC 60947-5-1       No         terval or service life according to IEC       20 a         the front according to IEC 60529       IP20         finger-safe, for vertical contact       Inger-safe, for vertical contact         ommunication       No         Confirmation         Confirmation         Confirmation         Safety/Safety of Machinery         Clearation of Conformity         Clearation of Conformity         Itype Examination Certificate         LUCK         Clearation of Conformity         LIFE         Clearation of Conformity         LIFE         Clearation of Conformity         LIFE         Clearation of Conformity         LIFE         Clearation of Conformity	peration according to IEC 60947-5-1     No       terval or service life according to IEC 60529     IP20       interval or service life according to IEC 60529     IP20       ommunication     No       ormunication     No         confirmation     No         KC         Functional Safety/Safety of Ma- chinery         Declaration of Conformity     Test Certificates         Type Examination Certificate       tifticate     Certificates         Confirmation     Certificates         Type Examination Certificate     Certificates         Confirmation     Certificates         Confirmation         Confirmation         Confirmation         Confirmation Certificate         Confirmation Certificate         Confirmation         Confirmation	

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

Information- and Downloadcenter (Catalogs, Brochures,...) <a href="https://www.siemens.com/ic10">https://www.siemens.com/ic10</a>

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2336-1AC20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2336-1AC20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2336-1AC20

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

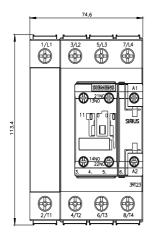
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2336-1AC20&lang=en

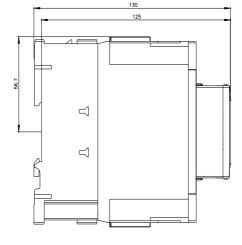
Characteristic: Tripping characteristics, I2t, Let-through current

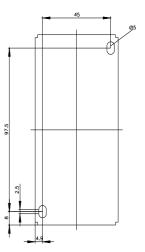
https://support.industry.siemens.com/cs/ww/en/ps/3RT2336-1AC20/char

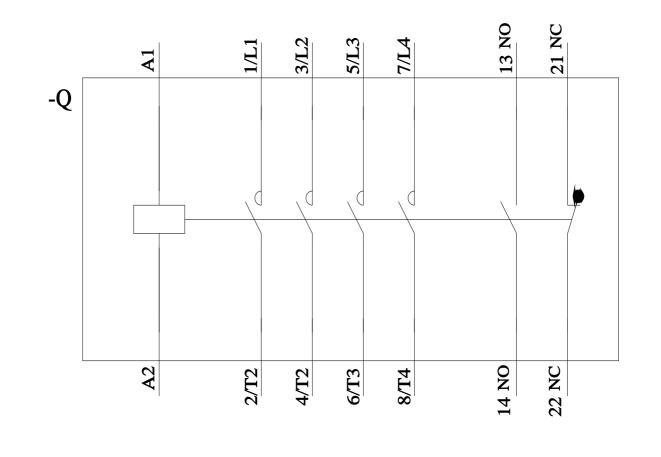
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2336-1AC20&objecttype=14&gridview=view1









last modified:

11/21/2022 🖸