# SIEMENS

#### Data sheet

### 3RT2337-1AB00



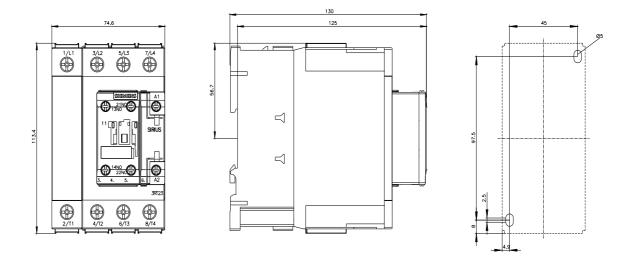
contactor AC-1, 110 A, 400 V / 40  $^\circ$ C, 4-pole, 24 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2

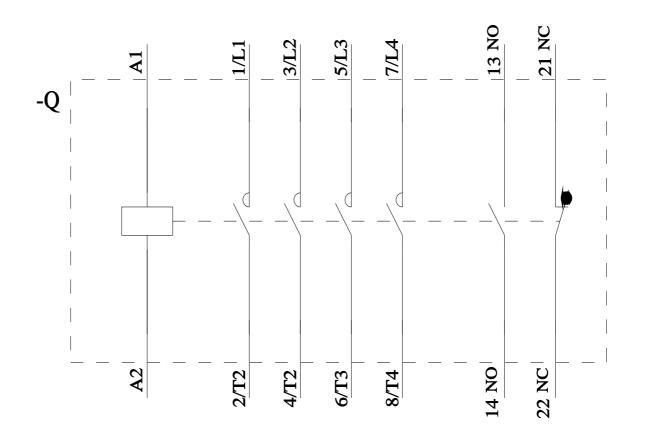
UT3 R714	
product brand name	SIRIUS
product designation	Contactor
product type designation	3RT23
General technical data	
size of contactor	S2
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	38.8 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	9.7 W
type of calculation of power loss depending on pole	quadratic
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</li> <li>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
Weight	1.2 kg
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 %
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	302 kg
Global Warming Potential [CO2 eq] during manufacturing	4.83 kg

Global Warming Potential [CO2 eq] during operation	297 kg
Global Warming Potential [CO2 eq] during operation Global Warming Potential [CO2 eq] after end of life	-0.64 kg
Main circuit	
number of poles for main current circuit	4
number of NO contacts for main contacts	4
operational current	7
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated</li> </ul>	110 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	110 A
value	
<ul> <li>— up to 690 V at ambient temperature 60 °C rated value</li> </ul>	95 A
• at AC-3	
— at 400 V rated value	38 A
minimum cross-section in main circuit at maximum AC-1 rated	35 mm <sup>2</sup>
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
operating range factor control supply voltage rated value of	
magnet coil at AC	0.0 4.4
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC • at 50 Hz	190 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.72
apparent holding power of magnet coil at AC	0.12
• at 50 Hz	16 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.37
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 2 A
at 500 V rated value	2 A 1 A
• at 690 V rated value	1A
operational current at DC-12	10.4
at 24 V rated value     at 48 V rated value	10 A
at 48 V rated value     at 60 V rated value	6 A
<ul> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul>	6 A 3 A
at 110 v rated value     at 125 V rated value	2 A
at 125 v rated value     at 220 V rated value	1A
al 220 V latou value	

at 600 V rated value	0.15 A				
operational current at DC-13					
at 24 V rated value	10 A				
<ul> <li>at 48 V rated value</li> </ul>	2 A				
<ul> <li>at 110 V rated value</li> </ul>	1 A				
<ul> <li>at 125 V rated value</li> </ul>	0.9 A				
<ul> <li>at 220 V rated value</li> </ul>	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>					
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 160 A (690 V, 100 kA)				
- with type of assignment 2 required	gR: 80 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 side-by-side mounting	Yes				
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715				
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	coron type terminate				
solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)				
	$2x (1 35 mm^2), 1x (1 35 mm^2)$ $2x (1 25 mm^2), 1x (1 35 mm^2)$				
finely stranded with core end processing     connectable conductor cross-section for main contacts	2A (1 20 IIIII ), IA (1 00 IIIII )				
	$1 - 50 \text{ mm}^2$				
<ul> <li>solid or stranded</li> <li>finally stranded with core and processing</li> </ul>	1 50 mm <sup>2</sup>				
finely stranded with core end processing	1 35 mm²				
connectable conductor cross-section for auxiliary contacts	0.5 0.5 mm²				
solid or stranded	0.5 2.5 mm <sup>2</sup>				
finely stranded with core end processing	0.5 2.5 mm <sup>2</sup>				
finely stranded without core end processing	0.5 2.5 mm²				
type of connectable conductor cross-sections					

<ul> <li>for auxiliary containing</li> </ul>	acts						
— solid			2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
	— 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>			5 1.5 mm²), 2x (0.75	. 2.5 mm²)			
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>		2x (20	2x (20 16), 2x (18 14)				
AWG number as code section	d connectable conducto	r cross					
for main contacts		10 1					
	for main contacts     for auxiliary contacts		18 1 20 14				
Safety related data	2015		20 1	4			
			_				
product function	cording to IEC 60047.4.1		Yes				
	mirror contact according to IEC 60947-4-1		No				
positively driven operation according to IEC 60947-5-1 Electrical Safety		NO					
	the frent eccording to I	50 60520	1000				
-	the front according to IEC		IP20				
Communication/ Protoc	e front according to IEC	60529	linger-	finger-safe, for vertical contact from the front			
				_	_		
product function bus			No				
Approvals Certificates							
General Product App	roval						
	CE EG-Konf.	<u>Confirmatio</u>	<u>חמ</u>	UK CA		KC	
General Product Approval	EMV	Test Certificate	es		Marine / Shipping		
EHC	RCM	<u>Special Test Ce</u> <u>ate</u>	<u>ertific-</u>	<u>Type Test Certific-</u> <u>ates/Test Report</u>	ABS	BUREAU VERITAS	
Marine / Shipping						other	
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2337-1AB00⟨=en Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2337-1AB00/char Further characteristics (e.g. electrical endurance, switching frequency)							
י עונויפי טומימטנטווטנט (פ.ע. פוטעווטו טועט מווע, אווניוווע וופעעפווטע)							





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