## SIEMENS

## Data sheet

## 3RT2337-1AL20



contactor AC-1, 110 A, 400 V / 40  $^\circ$ C, 4-pole, 230 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2

2/13 K/14	
product brand name	SIRIUS
product designation	Contactor
product type designation	3RT23
General technical data	
size of contactor	\$2
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>	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	1.14 kg
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 %
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

Citobal Warming Potential [CO2 eq] during operation     297 kg       Global Warming Potential [CO2 eq] after end of life     -0.64 kg       Main circuit     4       number of Doles for main current circuit     4       operational current     4       • et AC-1 at 400 V at ambient temperature 40 °C rated     110 A       value     • et AC-1       • up to 680 V at ambient temperature 40 °C rated     110 A       · up to 680 V at ambient temperature 40 °C rated     110 A       · up to 680 V at ambient temperature 60 °C rated     95 A       · value     38 A       minimum cross-section in main circuit at maximum AC-1 rated     35 mm²       • et AC-3     38 A       - at 400 V rated value     36 A       moles and AC-1     100 1/h       operating frequency at AC-1 maximum     700 1/h       operating frequency at AC-1     AC       • et AC     5 000 1/h       operating frequency at AC-1     AC       • et 60 Hz rated value     230 V       • et 60 Hz rated value     230 V       • et 60 Hz     0.85 1.1       apparent pick-up power of magnet coil at AC     210 VA       • et 60 Hz     0.69       • et 60 Hz     0.69       • et 60 Hz     0.69       • et 60 Hz     0.65       • et 60 Hz
Main circuit       4         number of No contacts for main contacts       4         operational current       4         • el AC-1 at 400 V at ambient temperature 40 °C rated value       110 A         • el AC-1       100 V at ambient temperature 40 °C rated value       110 A         • up to 580 V at ambient temperature 60 °C rated value       95 A         • el AC-3       95 A         - el 400 V rated value       38 A         minimum cross-section in main circuit at maximum AC-1 rated value       35 mm²         • el AC       5 000 1/h         operating frequency       6 000 1/h         operating frequency at AC-1 maximum       700 1/h         Control circuit/ Control       700 1/h         Control supply voltage of the control supply voltage       AC         • el 50 Hz       0.8 1.1         • el 60 Hz rated value       230 V         • el 60 Hz       0.8 1.1         • el 60 Hz       0.85         • el 60 Hz       0.85
number of NO contacts for main contacts         4           operational current         4           • at AC-1 at 400 V at ambient temperature 40 °C rated value         110 A           • at AC-1
number of NO contacts for main contacts     4       operational current     • al AC-1       - up to 690 V at ambient temperature 40 °C rated value     110 A       - up to 690 V at ambient temperature 60 °C rated value     95 A       - up to 690 V at ambient temperature 60 °C rated value     95 A       - at 400 V rated value     38 A       - at 400 V rated value     38 A       minimum cross-section in main circuit at maximum AC-1 rated value     35 mm²       • at AC-3     5 000 1/h       operating frequency     5 000 1/h       operating frequency at AC-1 maximum     700 1/h       Control supply voltage at AC     230 V       • at 60 Hz rated value     230 V       • at 60 Hz     0.8 1.1       • at 60 Hz     0.8 1.1       • at 60 Hz     0.8 1.1       • at 60 Hz     0.85 1.1       • at 60 Hz     0.69       • at 60 Hz     0.65       apparent pick-up power factor with closing power of the coil     0.65       • at 60 Hz     0.6
operational current       • at AC-1 at 400 V at ambient temperature 40 °C rated value       110 A         • at AC-1
• at AC-1 at 400 V at ambient temperature 40 °C rated value       110 A         • at AC-1
value         • at AC-1        up to 690 V at ambient temperature 40 °C rated value         -up to 580 V at ambient temperature 60 °C rated value         • at AC-3        at 400 V rated value         * at AC-3        at 400 V rated value         95 A         minimum cross-section in main circuit at maximum AC-1 rated value         0.02 at XAC-1 maximum AC-1 rated value         0.02 at XAC-1 maximum 700 1/h         Control size value AC-1 maximum 700 1/h         Control size value AC         size of voltage of the control supply voltage         AC         type of voltage of the control supply voltage rated value of magnet coll at AC         • at 60 Hz rated value       230 V         operating range factor control supply voltage rated value of magnet coll at AC       0.8 1.1         • at 60 Hz       0.8 1.1         apparent pick-up power of magnet coll at AC       0.89         • at 60 Hz       0.69         • at 60 Hz       0.69         • at 60 Hz       0.65         apparent pick-up power of magnet coll at AC       0.65         apparent hold
up to 690 V at ambient temperature 40 °C rated value     110 A      up to 690 V at ambient temperature 60 °C rated value     95 A       • at AC-3     38 A
value     95 A
value       at AC-3
• at AC-338 Aminimum cross-section in main circuit at maximum AC-1 rated value35 mm²no-load switching frequency35 mm²• at AC5 000 1/hoperating frequency at AC-1 maximum700 1/hControl circuit ControlTtype of voltageACtype of voltage of the control supply voltageACcontrol supply voltage at AC230 V• at 50 Hz rated value230 V• at 60 Hz rated value230 V• at 60 Hz0.8 1.1• at 60 Hz0.85 1.1apparent pick-up power of magnet coil at AC188 VA• at 60 Hz0.69• at 60 Hz0.69• at 60 Hz0.69• at 60 Hz0.69• at 60 Hz17.2 VA• at 60 Hz0.69• at 60 Hz0.36• at 60 Hz0.36• at 60 Hz0.39• at 60 Hz0.39
minimum cross-section in main circuit at maximum AC-1 rated value     35 mm²       no-load switching frequency     5 000 1/h       operating frequency at AC     5 000 1/h       Control circuit/ Control     700 1/h       Control circuit/ Control     AC       type of voltage of the control supply voltage at AC     AC       e at 50 Hz rated value     230 V       e at 60 Hz rated value     230 V       e at 50 Hz     0.8 1.1       e at 60 Hz     0.8 1.1       e at 60 Hz     1.1       e at 60 Hz     0.8 1.1       e at 60 Hz     0.69       e at 60 Hz     1.8 VA       inductive power factor with closing power of the coil     0.65       e at 50 Hz     0.69       e at 60 Hz     17.2 VA       i at 60 Hz     16.5 VA       inductive power factor with the holding power of the coil     0.36       e at 60 Hz     0.39
value       no-load switching frequency         • at AC       5 000 1/h         operating frequency at AC-1 maximum       700 1/h         Control circuit/ Control       AC         type of voltage of the control supply voltage       AC         control supply voltage at AC       300 V         • at 50 Hz rated value       230 V         • at 60 Hz rated value       230 V         • at 50 Hz rated value       230 V         • at 60 Hz       0.8 1.1         • at 50 Hz       0.8 1.1         • at 60 Hz       0.85 1.1         apparent pick-up power of magnet coil at AC       188 VA         • at 60 Hz       0.65         • at 60 Hz       0.65         • at 60 Hz       0.65         • at 60 Hz       17.2 VA         • at 60 Hz       16.5 VA         inductive power factor with the holding power of the coil       0.36         • at 60 Hz       0.36         • at 60 Hz       0.39
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apparent holding power of magnet coil at AC     Image: 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     0.36       • at 60 Hz     0.39       closing delay     Image: magnet coil at AC
• at 50 Hz17.2 VA• at 60 Hz16.5 VAinductive power factor with the holding power of the coil0.36• at 50 Hz0.36• at 60 Hz0.39closing delayImage: Closing delay
• at 60 Hz     16.5 VA       inductive power factor with the holding power of the coil
inductive power factor with the holding power of the coil     0.36       • at 50 Hz     0.39       closing delay     0.39
• at 50 Hz 0.36 • at 60 Hz 0.39 closing delay
• at 60 Hz 0.39  closing delay
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
number of NO contacts for auxiliary contacts 1
• attachable 2
instantaneous contact
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

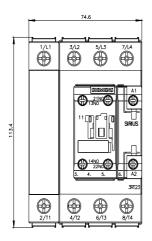
<ul> <li>at 24 V rated value</li> </ul>	10 A		
<ul> <li>at 48 V rated value</li> </ul>	6 A		
<ul> <li>at 60 V rated value</li> </ul>	6 A		
<ul> <li>at 110 V rated value</li> </ul>	3 A		
• at 125 V rated value	2 A		
• at 220 V rated value	1 A		
<ul> <li>at 600 V rated value</li> </ul>	0.15 A		
operational current at DC-13			
at 24 V rated value	10 A		
at 48 V rated value	2 A		
at 110 V rated value	1A		
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			
	No		
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)		
<ul> <li>— with type of assignment 2 required</li> </ul>	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	onew type terminals		
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	1 50 mm <sup>2</sup>		
<ul> <li>solid or stranded</li> </ul>	1 50 mm <sup>2</sup>		

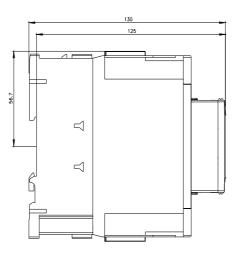
<ul> <li>finely stranded with core end processing</li> </ul>	1	35 mm²			
connectable conductor cross-section for auxi					
solid or stranded		).5 2.5 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>		0.5 2.5 mm <sup>2</sup>			
<ul> <li>finely stranded without core end processing</li> </ul>		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)		
— solid or stranded		2x (0.5 1.5 mm²), 2x (0.75			
		x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )			
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>		2x (20 16), 2x (18 14)			
AWG number as coded connectable conductor cross section					
<ul> <li>for main contacts</li> </ul>	1	18 1			
for auxiliary contacts	2	20 14			
Safety related data					
product function					
• mirror contact according to IEC 60947-4-1		/es			
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>		lo			
Electrical Safety					
protection class IP on the front according to II		P20	6 U 6 I		
touch protection on the front according to IEC	; 60529 fi	nger-safe, for vertical contact	from the front		
Communication/ Protocol					
product function bus communication	Ν	10			
Approvals Certificates					
General Product Approval					
CCC EG-Konf.	UK CA		UL		
General Product Ap- proval EMV	Test Certificates		Marine / Shipping		
	<u>Special Test Certifi</u> <u>ate</u>	ic- <u>Type Test Certific-</u> ates/Test Report	ABS	B U RE AU VERITAS	
Marine / Shipping				other	
DNV URS	PRS	RINA	(CAR) RMRS	<u>Confirmation</u>	
Railway Dangerous goods	Environment				
RailwayDangerous goodsSpecial Test Certific- ateTransport Information	Environment	Environmental Con- firmations			
Special Test Certific- Transport Information	EPD				

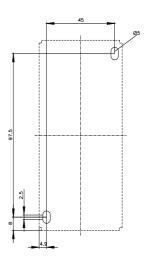
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2337-1AL20 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2337-1AL20 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2337-1AL20&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2337-1AL20/char

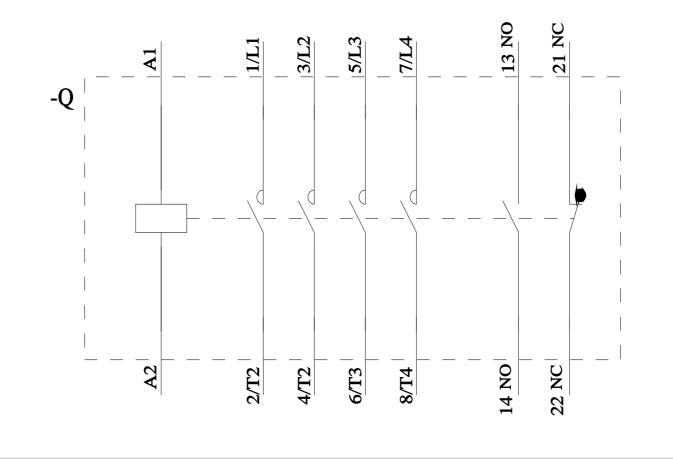
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2337-1AL20&objecttype=14&gridview=view1









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