## SIEMENS

## Data sheet

## 3RT2325-1AP60



contactor AC-1, 35 A, 400 V / 40 °C, 4-pole, 220 V AC, 50 Hz / 240 V, 60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

product brand name	SIRIUS		
product designation	Contactor		
product type designation	3RT23		
General technical data			
size of contactor	SO		
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>	7.6 W		
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.9 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	7,5g / 5 ms, 4,7g / 10 ms		
shock resistance with sine pulse			
• at AC	11,8g / 5 ms, 7,4g / 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)	10/01/2009		
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 %		
Main circuit			
number of poles for main current circuit	4		
number of NO contacts for main contacts	4		
operational current			
• at AC-1 at 400 V at ambient temperature 40 °C rated value	35 A		

• at AC-1	25.4		
<ul> <li>— up to 690 V at ambient temperature 40 °C rated value</li> </ul>	35 A		
— up to 690 V at ambient temperature 60 °C rated	30 A		
value			
• at AC-3			
— at 400 V rated value	15.5 A		
• at AC-4 at 400 V rated value	15.5 A		
minimum cross-section in main circuit at maximum AC-1 rated	10 mm <sup>2</sup>		
value			
operating power			
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	7.5 kW		
at AC-4 at 400 V rated value	7.5 kW		
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	1 000 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	220 V		
at 60 Hz rated value	240 V		
operating range factor control supply voltage rated value of			
magnet coil at AC			
• at 50 Hz	0.8 1.1		
• at 60 Hz	0.8 1.1		
apparent pick-up power of magnet coil at AC			
• at 50 Hz	68 VA		
• at 60 Hz	67 VA		
inductive power factor with closing power of the coil			
• at 50 Hz	0.72		
• at 60 Hz	0.74		
apparent holding power of magnet coil at AC			
• at 50 Hz	7.9 VA		
• at 60 Hz	6.5 VA		
inductive power factor with the holding power of the coil			
• at 50 Hz	0.25		
• at 60 Hz	0.28		
closing delay			
• at AC	8 40 ms		
opening delay			
• at AC	4 16 ms		
arcing time	10 10 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		
	10 A 3 A		

• at 500 V rated value	2 A			
• at 690 V rated value	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			
<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			
<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			
<ul> <li>at 600 V rated value</li> </ul>	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 / Q600			
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: 63 A (690 V, 100 kA)			
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 20 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			
fastening method	backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
side-by-side mounting	Yes			
• side-by-side mounting				
· · · · · · · · · · · · · · · · · · ·				
height	85 mm			
height width	60 mm			
height width depth				
height width depth required spacing	60 mm			
height         width         depth         required spacing         • with side-by-side mounting	60 mm 97 mm			
height width depth required spacing • with side-by-side mounting — forwards	60 mm 97 mm 10 mm			
height width depth required spacing • with side-by-side mounting — forwards — upwards	60 mm 97 mm 10 mm 10 mm			
height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	60 mm 97 mm 10 mm 10 mm 10 mm			
height         width         depth         required spacing         • with side-by-side mounting         — forwards         — upwards         — downwards         — at the side	60 mm 97 mm 10 mm 10 mm			
height         width         depth         required spacing         • with side-by-side mounting         — forwards         — upwards         — downwards         — at the side         • for grounded parts	60 mm 97 mm 10 mm 10 mm 10 mm 0 mm			
height         width         depth         required spacing         • with side-by-side mounting         — forwards         — upwards         — downwards         — at the side         • for grounded parts         — forwards	60 mm 97 mm 10 mm 10 mm 0 mm 10 mm			
height         width         depth         required spacing         • with side-by-side mounting         — forwards         — upwards         — downwards         — at the side         • for grounded parts         — upwards         — upwards	60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm			
height         width         depth         required spacing         • with side-by-side mounting         — forwards         — upwards         — downwards         — at the side         • for grounded parts         — forwards         — upwards         — at the side         — forwards         — upwards         — at the side	60 mm 97 mm 10 mm 10 mm 0 mm 10 mm 10 mm 6 mm			
height         width         depth         required spacing         • with side-by-side mounting         — forwards         — upwards         — downwards         — at the side         • for grounded parts         — forwards         — upwards         — at the side         — downwards         — upwards         — upwards         — upwards         — upwards         — at the side         — downwards	60 mm 97 mm 10 mm 10 mm 0 mm 10 mm 10 mm			
height         width         depth         required spacing         • with side-by-side mounting         — forwards         — upwards         — downwards         — at the side         • for grounded parts         — forwards         — upwards         — at the side         • for grounded parts         — forwards         — upwards         — ownwards         — ownwards         — for live parts	60 mm 97 mm 10 mm 10 mm 0 mm 10 mm 10 mm 6 mm 10 mm			
height         width         depth         required spacing         • with side-by-side mounting         — forwards         — upwards         — downwards         — at the side         • for grounded parts         — forwards         — upwards         — forwards         — forwards         — forwards         — ownwards         — for grounded parts         — forwards         — forwards         — opwards         — ownwards         • for live parts         — forwards	60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm			
height         width         depth         required spacing         • with side-by-side mounting         — forwards         — upwards         — downwards         — at the side         • for grounded parts         — forwards         — upwards         — at the side         • for grounded parts         — forwards         — upwards         — ownwards         — ownwards         — for live parts	60 mm 97 mm 10 mm 10 mm 0 mm 10 mm 10 mm 6 mm 10 mm			
height         width         depth         required spacing         • with side-by-side mounting         — forwards         — upwards         — downwards         — at the side         • for grounded parts         — forwards         — upwards         — forwards         — forwards         — forwards         — ownwards         — for grounded parts         — forwards         — forwards         — opwards         — ownwards         • for live parts         — forwards	60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm			
height         width         depth         required spacing         • with side-by-side mounting         — forwards         — upwards         — downwards         — at the side         • for grounded parts         — forwards         — at the side         • for grounded parts         — forwards         — at the side         — forwards         — at the side         — downwards         • for live parts         — forwards         • upwards         • upwards	60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm			
height         width         depth         required spacing         • with side-by-side mounting         - forwards         - upwards         - downwards         - at the side         • for grounded parts         - forwards         - upwards         - at the side         - forwards         - upwards         - at the side         - forwards         - at the side         - downwards         • for live parts         - forwards         - upwards         - downwards         - forwards         - downwards	60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm			
height         width         depth         required spacing         • with side-by-side mounting         - forwards         - upwards         - downwards         - at the side         • for grounded parts         - forwards         - upwards         - at the side         • for grounded parts         - forwards         - upwards         - at the side         - downwards         • for live parts         - forwards         - upwards         - at the side         - downwards         - at the side	60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm			
height         width         depth         required spacing         • with side-by-side mounting         - forwards         - upwards         - downwards         - at the side         • for grounded parts         - forwards         - upwards         - at the side         - downwards         - at the side         - downwards         • for live parts         - forwards         - upwards         - at the side         - downwards         • for live parts         - at the side         - downwards         - at the side         - downwards         - at the side         - downwards         - at the side	60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm			
height         width         depth         required spacing         • with side-by-side mounting         - forwards         - upwards         - downwards         - at the side         • for grounded parts         - forwards         - at the side         - forwards         - at the side         - downwards         - at the side         - downwards         • for live parts         - forwards         - upwards         - at the side         - downwards         • for live parts         - at the side         - downwards         - at the side         - downwards         - at the side         Variable         - downwards         - at the side         - downwards         - at the side         - downwards         - at the side         - downwards         - at the side	60 mm 97 mm 10 mm			
height         width         depth         required spacing         • with side-by-side mounting         - forwards         - upwards         - downwards         - at the side         • for grounded parts         - forwards         - at the side         • for grounded parts         - forwards         - at the side         - downwards         • for live parts         - forwards         - upwards         - at the side         - downwards         • for live parts         - at the side         - downwards         - at the side         Connections/Terminals         type of electrical connection         • for main current circuit	60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm			
height         width         depth         required spacing         • with side-by-side mounting         - forwards         - upwards         - downwards         - at the side         • for grounded parts         - forwards         - upwards         - forwards         - upwards         - forwards         - upwards         - for live parts         - forwards         - upwards         - downwards         • for live parts         - downwards         - at the side         Oconnections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit	60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm			
height         width         depth         required spacing         • with side-by-side mounting         - forwards         - upwards         - downwards         - at the side         • for grounded parts         - forwards         - at the side         • for grounded parts         - forwards         - at the side         - downwards         - at the side         - downwards         • for live parts         - forwards         - upwards         - downwards         - forwards         - upwards         - downwards         - for auxiliary and control circuit         • for auxiliary and control circuit         • at contactor for auxiliary contacts	60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 mm 5 crew-type terminals screw-type terminals Screw-type terminals			
height         width         depth         required spacing         • with side-by-side mounting         - forwards         - upwards         - downwards         - at the side         • for grounded parts         - forwards         - at the side         • for grounded parts         - forwards         - at the side         - downwards         - at the side         - downwards         • for live parts         - forwards         - upwards         - downwards         - at the side         Oconnections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         • at contactor for auxiliary contacts         • of magnet coil	60 mm 97 mm 10 mm 10 mm 10 mm 0 mm 10 screw-type terminals screw-type terminals screw-type terminals			

<ul> <li>solid or stranded</li> </ul>				2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )			
-	finely stranded with core end processing     connectable conductor cross-section for main contacts			2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²			
	or cross-section for main	contacts					
	• solid			10 mm <sup>2</sup>			
	solid or stranded			10 mm <sup>2</sup>			
	• stranded			10 mm <sup>2</sup>			
	finely stranded with core end processing			10 mm²			
	r cross-section for auxi	liary contacts					
	<ul> <li>solid or stranded</li> </ul>			. 2.5 mm²			
	<ul> <li>finely stranded with core end processing</li> </ul>			0.5 2.5 mm²			
type of connectable co	type of connectable conductor cross-sections						
<ul> <li>for auxiliary containing</li> </ul>	<ul> <li>for auxiliary contacts</li> </ul>						
— solid	— solid			2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
— solid or stra	nded		2x (0	.5 1.5 mm²), 2x (0.75	2.5 mm²)		
— finely strand	led with core end process	ing	2x (0	.5 1.5 mm²), 2x (0.75	2.5 mm²)		
<ul> <li>for AWG cables f</li> </ul>	or auxiliary contacts		2x (2	0 16), 2x (18 14)			
AWG number as code section	d connectable conducto	r cross					
<ul> <li>for main contacts</li> </ul>			16	8			
<ul> <li>for auxiliary containing</li> </ul>	acts		20	14			
Safety related data							
product function							
	cording to IEC 60947-4-1		Yes				
	nterval or service life acco	rding to IFC	20 a				
61508		anig to i= o	20 0				
protection class IP on	the front according to II	EC 60529	IP20				
touch protection on th	e front according to IEC	60529	finge	r-safe, for vertical contact f	from the front		
<b>Communication/ Protoc</b>	ol						
product function bus of	communication		No				
Certificates/ approvals							
General Product Appr	ioval		_			EMC	
General Product Appl	ovai					EINIC	
(SP)		<u>Confirmatior</u>	1		EHC	RCM	
Functional Safety/Safety of Ma- chinery	Declaration of Confor	mity		Test Certificates		Marine / Shipping	
Type Examination Cer- tificate	CE EG-Konf.	UK CA		<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report	ABS	
Marine / Shipping						other	
B U REAU VERITAS		Llovd's Register uis		RINA	KMRS	<u>Confirmation</u>	
other	Railway	Environment					
VDE VDE	Vibration and Shock	<u>Environmental (</u> firmations	<u>Con-</u>				
Further information							

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,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2325-1AP60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2325-1AP60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-1AP60

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

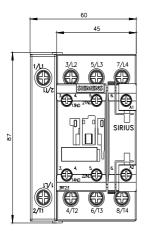
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2325-1AP60&lang=en

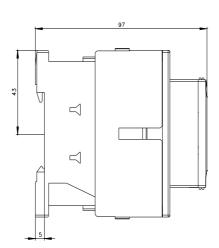
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

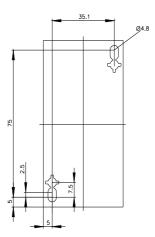
https://support.industry.siemens.com/cs/ww/en/ps/3RT2325-1AP60/char

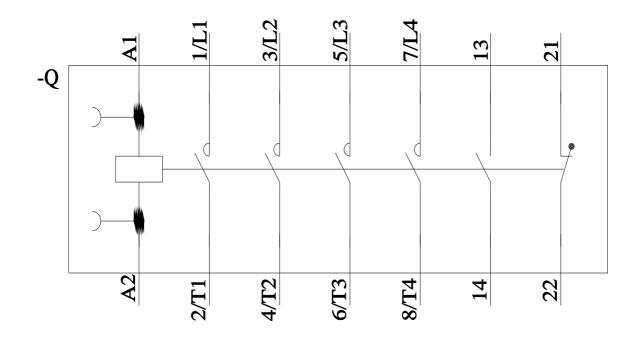
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2325-1AP60&objecttype=14&gridview=view1









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