SIEMENS

Data sheet 3RT2336-1NE30

Contactor, 4 NO, AC-1: 60 A 48-80 V AC/DC, varistor 4-pole, 4 NO, Size S2 Screw terminal 1 NO+1 NC integrated



Product brand name	SIRIUS
Product designation	Contactor
Product type designation	3RT23

S2
No
Yes
6 kV
6 kV
IP20
IP00
7.7g / 5 ms, 4.5g / 10 ms
7.7g / 5 ms, 4.5g / 10 ms
12g / 5 ms, 7g / 10 ms

• at DC	12g / 5 ms, 7g / 10 ms	
Mechanical service life (switching cycles)		
of contactor typical	10 000 000	
of the contactor with added auxiliary switch	100 000 000	
block typical		
Reference code acc. to DIN EN 81346-2	Q	
Ambient conditions		
Installation altitude at height above sea level		
• maximum	2 000 m	
Relative humidity		
• during operation	95 %	
Main circuit		
Number of poles for main current circuit	4	
Number of NO contacts for main contacts	4	
Operating voltage		
● at AC		
— at 50 Hz rated value	690 V	
— at 60 Hz rated value	690 V	
Operating current		
● at AC-1 at 400 V		
— at ambient temperature 40 °C rated value	60 A	
● at AC-1		
— up to 690 V at ambient temperature 40 °C rated 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	
No-load switching frequency		
● at AC	1 500 1/h	
• at DC	1 500 1/h	
Operating frequency		
• at AC-1 maximum	700 1/h	
Control circuit/ Control		
Type of voltage	AC/DC	
Type of voltage of the control supply voltage	AC/DC	
Control supply voltage at AC		
● at 50 Hz rated value	48 80 V	
• at 60 Hz rated value	48 80 V	

Control supply voltage			
at DC rated value	48 80 V		
Operating range factor control supply voltage rated value of magnet coil at DC			
● initial value	0.8		
• Full-scale value	1.1		
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		
Design of the surge suppressor	with varistor		
Apparent pick-up power of magnet coil at AC			
● at 50 Hz	40 V·A		
● at 60 Hz	40 V·A		
Apparent holding power of magnet coil at AC			
● at 50 Hz	2 V·A		
● at 60 Hz	2 V·A		
Closing power of magnet coil at DC	23 W		
Holding power of magnet coil at DC	1 W		
Closing delay			
• at AC	45 70 ms		
• at DC	45 60 ms		
Opening delay			
• at AC	35 55 ms		
• at DC	35 55 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		
Operating current at AC-12			
• maximum	10 A		
Operating 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		
Operating current at DC-12			

• at 24 V rated value	10 A
● at 48 V rated value	6 A
• at 60 V rated value	6 A
• at 110 V rated value	3 A
● at 125 V rated value	2 A
• at 220 V rated value	1 A
● at 600 V rated value	0.15 A
Operating 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	gG: 10 A (230 V, 400 A)
required	
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 protoction	
Short-circuit protection	
Product function Short circuit protection	No
	No
Product function Short circuit protection	No
Product function Short circuit protection Design of the fuse link	No gG: 160 A (690 V, 100 kA)
Product function Short circuit protection Design of the fuse link • for short-circuit protection of the main circuit	
Product function Short circuit protection Design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required	gG: 160 A (690 V, 100 kA)
Product function Short circuit protection Design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required	gG: 160 A (690 V, 100 kA) gG: 63 A (690 V,100 kA)
Product function Short circuit protection Design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch	gG: 160 A (690 V, 100 kA) gG: 63 A (690 V,100 kA)
Product function Short circuit protection Design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required	gG: 160 A (690 V, 100 kA) gG: 63 A (690 V, 100 kA) gG: 10 A (690 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be
Product function Short circuit protection Design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	gG: 160 A (690 V, 100 kA) gG: 63 A (690 V,100 kA) gG: 10 A (690 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting
Product function Short circuit protection Design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions Mounting position	gG: 160 A (690 V, 100 kA) gG: 63 A (690 V, 100 kA) gG: 10 A (690 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
Product function Short circuit protection Design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	gG: 160 A (690 V, 100 kA) gG: 63 A (690 V, 100 kA) gG: 10 A (690 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail
Product function Short circuit protection Design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions Mounting position Mounting type	gG: 160 A (690 V, 100 kA) gG: 63 A (690 V, 100 kA) gG: 10 A (690 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
Product function Short circuit protection Design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions Mounting position Mounting type • Side-by-side mounting	gG: 160 A (690 V, 100 kA) gG: 63 A (690 V,100 kA) gG: 10 A (690 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
Product function Short circuit protection Design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions Mounting position Mounting type	gG: 160 A (690 V, 100 kA) gG: 63 A (690 V, 100 kA) gG: 10 A (690 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes
Product function Short circuit protection Design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions Mounting position Mounting type • Side-by-side mounting Height	gG: 160 A (690 V, 100 kA) gG: 63 A (690 V, 100 kA) gG: 10 A (690 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 114 mm
Product function Short circuit protection Design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions Mounting position Mounting type • Side-by-side mounting Height Width	gG: 160 A (690 V, 100 kA) gG: 63 A (690 V, 100 kA) gG: 10 A (690 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 114 mm 75 mm
Product function Short circuit protection Design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions Mounting position Mounting type • Side-by-side mounting Height Width Depth	gG: 160 A (690 V, 100 kA) gG: 63 A (690 V, 100 kA) gG: 10 A (690 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 114 mm 75 mm
Product function Short circuit protection Design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions Mounting position Mounting type • Side-by-side mounting Height Width Depth Required spacing	gG: 160 A (690 V, 100 kA) gG: 63 A (690 V, 100 kA) gG: 10 A (690 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 114 mm 75 mm

— upwards

10 mm

— downwards	10 mm
— at the side	0 mm
• for grounded parts	
— 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 current circuit 	screw-type terminals	
Type of connectable conductor cross-sections		
• for main contacts		
— single or multi-stranded	2x (1 35 mm²), 1x (1 50 mm²)	
 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)	
 at AWG conductors for main contacts 	2x (18 2), 1x (18 1)	
Connectable conductor cross-section for main		
contacts		
single or multi-stranded	1 50 mm²	
 finely stranded with core end processing 	1 35 mm²	
Connectable conductor cross-section for auxiliary		
contacts		
single or multi-stranded	0.5 2.5 mm²	
 finely stranded with core end processing 	0.5 2.5 mm²	
 finely stranded without core end processing 	0.5 2.5 mm²	
Type of connectable conductor cross-sections		
for auxiliary contacts		
— solid	2x (0.5 1,5mm²), 2x (0.75 2.5 mm²)	
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)	
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
 at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14)	
AWG number as coded connectable conductor cross		
section		
• for main contacts	18 1	
• for auxiliary contacts	20 14	

Safety related data

Product function	
 Mirror contact acc. to IEC 60947-4-1 	Yes
positively driven operation acc. to IEC 60947-5-	No
T1 value for proof test interval or service life acc. to IEC 61508	20 y
Protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529

74			ı/ Protocol	
			V Protocol	
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Product function Bus communication No

Certificates/ approvals

General Product Approval

EMC

Functional Safety/Safety of Machinery











Type Examination
Certificate

Declaration of Conformity

Test Certificates

Marine / Shipping



Miscellaneous

Type Test Certificates/Test Report

Special Test Certificate





other

Marine / Shipping

Lloyd's Register

LRS









Confirmation

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2336-1NE30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2336-1NE30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2336-1NE30

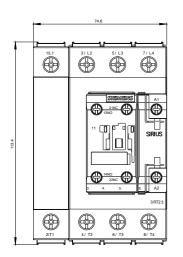
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2336-1NE30&lang=en

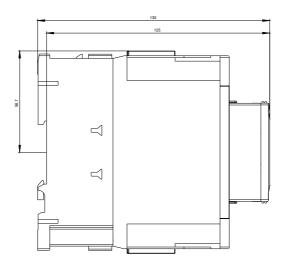
Characteristic: Tripping characteristics, I2t, Let-through current

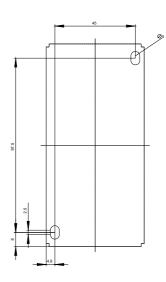
https://support.industry.siemens.com/cs/ww/en/ps/3RT2336-1NE30/char

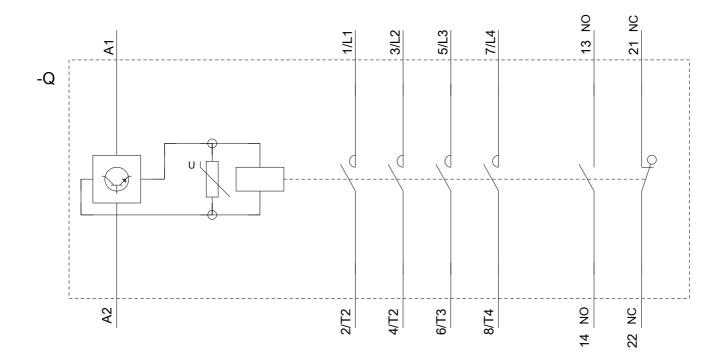
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2336-1NE30&objecttype=14&gridview=view1









last modified: 09/04/2019