



Contactor, AC-1, 275 A/400 V/40 °C, S10, 4-pole, 100-250 V AC/DC, 2 NO+2 NC, Connection rail/ screw terminal

product brand name	SIRIUS
product designation	Contactor
product type designation	3RT13
General technical data	
size of contactor	S10
product extension	
• function module for communication	No
• auxiliary switch	Yes
power loss [W] for rated value of the current	
• at AC in hot operating state	60 W
• at AC in hot operating state per pole	15 W
• without load current share typical	2.5 W
insulation voltage	
• of main circuit with degree of pollution 3 rated value	1 000 V
• of the auxiliary and control circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
• of main circuit rated value	8 kV
• of auxiliary circuit rated value	6 kV
reference code according to IEC 81346-2	Q
Substance Prohibitive (Date)	03/27/2017
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
• during operation	-40 ... +60 °C
• during storage	-40 ... +70 °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	275 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	275 A
— up to 690 V at ambient temperature 60 °C rated value	250 A
— up to 1000 V at ambient temperature 40 °C rated value	250 A
— up to 1000 V at ambient temperature 60 °C	225 A

<ul style="list-style-type: none"> rated value • at AC-3 <ul style="list-style-type: none"> — at 400 V rated value 	190 A
minimum cross-section in main circuit at maximum AC-1 rated value	150 mm ²
operating power	
<ul style="list-style-type: none"> • at AC-3 at 400 V rated value 	90 kW
no-load switching frequency	
<ul style="list-style-type: none"> • at AC • at DC 	300 1/h 300 1/h
Control circuit/ Control	
type of voltage	AC
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
<ul style="list-style-type: none"> • at 50 Hz rated value • at 60 Hz rated value 	100 ... 250 V 100 ... 250 V
control supply voltage at DC	
<ul style="list-style-type: none"> • rated value 	100 ... 250 V
operating range factor control supply voltage rated value of magnet coil at DC	
<ul style="list-style-type: none"> • initial value • full-scale value 	0.8 1.1
operating range factor control supply voltage rated value of magnet coil at AC	
<ul style="list-style-type: none"> • at 50 Hz • at 60 Hz 	0.85 ... 1.1 0.85 ... 1.1
apparent pick-up power of magnet coil at AC	
<ul style="list-style-type: none"> • at 50 Hz • at 60 Hz 	220 VA 220 VA
apparent holding power of magnet coil at AC	
<ul style="list-style-type: none"> • at 50 Hz • at 60 Hz 	7 VA 7 VA
closing power of magnet coil at DC	190 W
holding power of magnet coil at DC	2.5 W
closing delay	
<ul style="list-style-type: none"> • at AC • at DC 	25 ... 60 ms 25 ... 60 ms
opening delay	
<ul style="list-style-type: none"> • at AC • at DC 	45 ... 80 ms 45 ... 80 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
<ul style="list-style-type: none"> • attachable • instantaneous contact 	2 2
number of NO contacts for auxiliary contacts	2
<ul style="list-style-type: none"> • attachable • instantaneous contact 	2 2
operational current at AC-15	
<ul style="list-style-type: none"> • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value 	4 A 3 A 2 A 2 A
operational current at DC-13	
<ul style="list-style-type: none"> • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value 	3 A 1.5 A 0.55 A 0.55 A 0.3 A
UL/CSA ratings	
contact rating of auxiliary contacts according to UL	A600 / Q300
Short-circuit protection	
product function short circuit protection	No

design of the fuse link <ul style="list-style-type: none"> • for short-circuit protection of the main circuit <ul style="list-style-type: none"> — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required 	gG: 355 A (500 V, 100 kA) gG: 10 A (690 V, 1 kA)	
Installation/ mounting/ dimensions		
mounting position fastening method <ul style="list-style-type: none"> • side-by-side mounting height width depth required spacing <ul style="list-style-type: none"> • with side-by-side mounting <ul style="list-style-type: none"> — forwards — upwards — downwards — at the side • for grounded parts <ul style="list-style-type: none"> — forwards — upwards — at the side — downwards • for live parts <ul style="list-style-type: none"> — forwards — upwards — downwards — at the side net weight	For vertical mounting surface can be rotated +/-180°, and with 0° rotation can be tilted forward or backward +/- 30°, or standing screw fixing Yes 196 mm 140 mm 153 mm 20 mm 10 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 20 mm 10 mm 10 mm 10 mm 3.85 kg	
Connections/ Terminals		
type of electrical connection <ul style="list-style-type: none"> • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil connectable conductor cross-section for auxiliary contacts <ul style="list-style-type: none"> • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections <ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> — solid — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section <ul style="list-style-type: none"> • for auxiliary contacts 	Connection bar screw-type terminals Screw-type terminals Screw-type terminals 1 ... 4 mm ² 0.75 ... 2.5 mm ² 1x (1 ... 4mm ²), 2x (1 ... 4mm ²) 1x (1 ... 4mm ²), 2x (1 ... 4mm ²) 1x (0.75 ... 2.5 mm ²), 2x (0.75 ... 2.5 mm ²) 1x (AWG 18 ... 14), 2x (AWG 18 ... 14) 18 ... 14	
Safety related data		
product function <ul style="list-style-type: none"> • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	Yes No IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover	
Communication/ Protocol		
product function bus communication	No	
Certificates/ approvals		
General Product Approval	EMC	Test Certificates



[Confirmation](#)



[Special Test Certificate](#)

other

Railway

[Confirmation](#)

[Miscellaneous](#)

[Special Test Certificate](#)

Further information

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=3RT1363-6AP36>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1363-6AP36>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1363-6AP36>

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

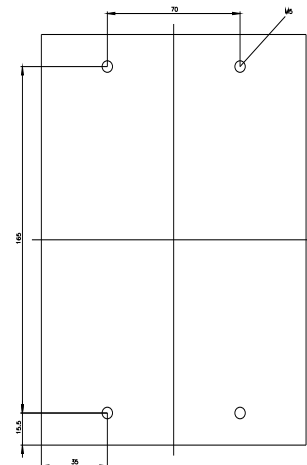
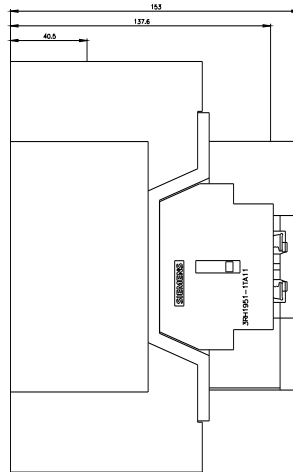
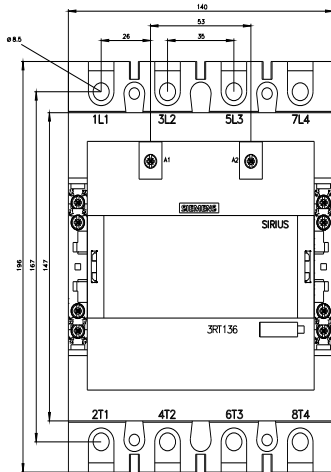
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1363-6AP36&lang=en

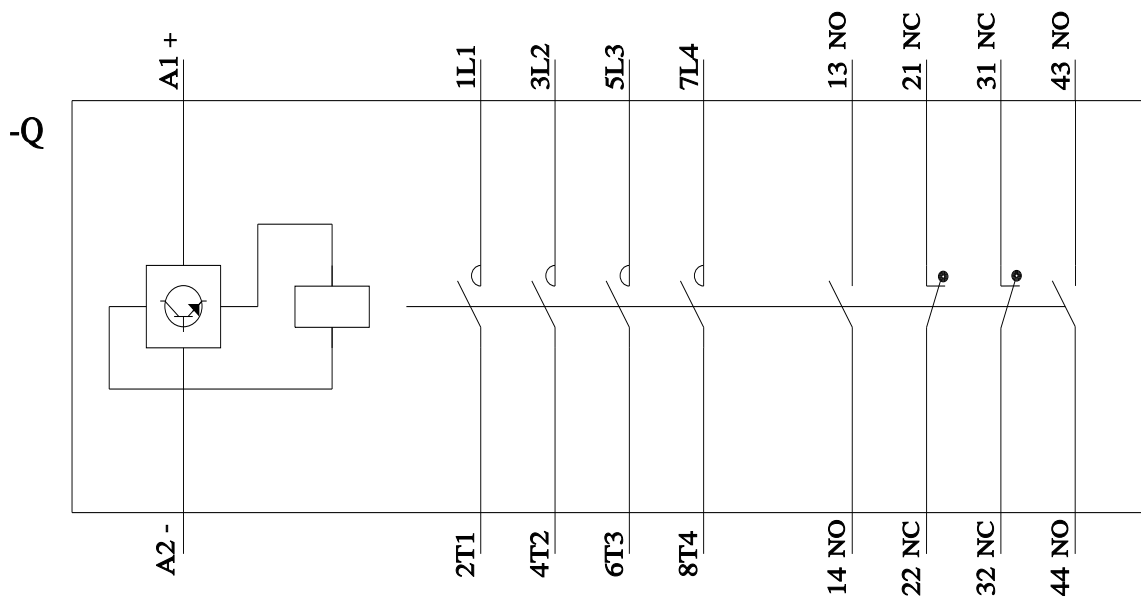
Characteristic: Tripping characteristics, I^t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1363-6AP36/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1363-6AP36&objecttype=14&gridview=view1>





last modified:

3/18/2022 