SIEMENS

Data sheet 3RT1375-6AE36



Contactor, AC-1, 525 A/400 V/40 °C, S12, 4-pole, 24-60 V AC, 20-60 V 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	S12
product extension	
 function module for communication 	No
auxiliary switch	Yes
insulation voltage	
of main circuit with degree of pollution 3 rated value	1 000 V
surge voltage resistance	
 of main circuit rated value 	8 kV
of auxiliary circuit rated value	6 kV
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	27.03.2017 00:00:00
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 during operation	10 95 %
relative humidity at 55 °C acc. to IEC 60068-2-30	95 %
maximum	
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 	525 A
• at AC-1	
 — up to 690 V at ambient temperature 40 °C rated value 	525 A
 up to 690 V at ambient temperature 60 °C rated value 	425 A
 up to 1000 V at ambient temperature 40 °C rated value 	400 A
— up to 1000 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	350 A
• at AC-3	
— at 400 V rated value	370 A

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minimum cross-section in main circuit at maximum AC-1 rated value	370 mm²
operating power	
• at AC-3 at 400 V rated value	200 kW
no-load switching frequency	
• at AC	300 1/h
• at DC	300 1/h
	300 1/11
Control circuit/ Control	
type of voltage	AC
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
 at 50 Hz rated value 	24 60 V
at 60 Hz rated value	24 60 V
control supply voltage at DC	
rated value	20 60 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	0.85 1.1
● at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	475 V·A
● at 60 Hz	475 V·A
apparent holding power of magnet coil at AC	
● at 50 Hz	8.5 V·A
● at 60 Hz	8.5 V·A
closing power of magnet coil at DC	400 W
holding power of magnet coil at DC	3.5 W
closing delay	
• at AC	30 60 ms
• at DC	30 60 ms
opening delay	
• at AC	45 80 ms
• at DC	45 80 ms
	Standard A1 - A2
control version of the switch operating mechanism	Standard AT - AZ
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
attachable	2
instantaneous contact	2
number of NO contacts for auxiliary contacts	2
attachable	2
instantaneous contact	2
operational current at AC-15	
at 230 V rated value	4 A
at 400 V rated value	3 A
at 500 V rated value	2 A
at 690 V rated value	2 A
operational current at DC-13	
at 24 V rated value	3 A
at 48 V rated value	1.5 A
at 10 V rated value at 110 V rated value	0.55 A
at 125 V rated value at 125 V rated value	0.55 A
at 125 V rated value at 220 V rated value	
	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

• for short-circuit protection of the main circuit - with type of assignment 2 required gG: 630 A (500 V, 100 kA) • for short-circuit protection of the auxiliary switch gG: 10 A (690 V, 1 kA) required Installation/ mounting/ dimensions mounting position For vertical mounting surface can be rotated +/-180°, and with 0° rotation can be tilted forward or backward +/- 30°, or standing fastening method screw fixing • side-by-side mounting Yes 225 mm height width 184 mm depth 180 mm required spacing • with side-by-side mounting - forwards 20 mm 10 mm - upwards - downwards 10 mm 0 mm — at the side · for grounded parts 20 mm - forwards 10 mm - upwards - at the side 10 mm 10 mm - downwards • for live parts 20 mm - forwards upwards 10 mm - downwards 10 mm - at the side 10 mm net weight 6.5 kg Connections/ Terminals type of electrical connection • for main current circuit Connection bar, broadened > 450A required • for auxiliary and control circuit screw-type terminals connectable conductor cross-section for auxiliary contacts solid or stranded 1 ... 4 mm² 0.75 ... 2.5 mm² • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid 1x (1 ... 4mm²), 2x (1 ... 4mm²) - solid or stranded 1x (1 ... 4mm²), 2x (1 ... 4mm²) - finely stranded with core end processing 1x (0,75 ... 2,5mm²), 2x (0,75 ... 2,5mm²) • at AWG cables for auxiliary contacts 1x (AWG 18 ... 14), 2x (AWG 18 ... 14) AWG number as coded connectable conductor cross section 18 ... 14 · for auxiliary contacts Safety related data protection class IP on the front acc. to IEC 60529 IP00; IP20 with box terminal/cover touch protection on the front acc. to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover product function bus communication No Certificates/ approvals **Declaration of EMC General Product Approval** Conformity Confirmation

design of the fuse link

Declaration of Conformity	Test Certificates	other		Railway	
UK Declaration of Conformity	Special Test Certificate	Confirmation	<u>Miscellaneous</u>	Special Test Certific- ate	

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=3RT1375-6AE36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1375-6AE36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1375-6AE36

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

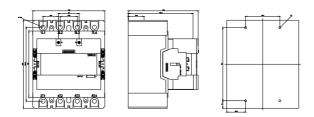
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1375-6AE36\&lang=en}}$

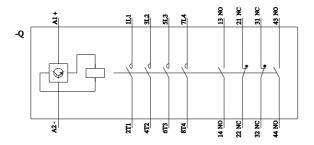
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1375-6AE36/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1375-6AE36&objecttype=14&gridview=view1





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