SIEMENS

Data sheet 3RT1374-6AP36



Contactor, AC-1, 500 A/400 V/40 °C, S12, 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	S12
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 	200 W
 at AC in hot operating state per pole 	50 W
without load current share typical	4.5 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 Prohibitance (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 	500 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	500 A
— up to 690 V at ambient temperature 60 °C	400 A

— up to 1000 V at ambient temperature 40 °C rated value	375 A
— up to 1000 V at ambient temperature 60 °C	325 A
rated value	02071
• at AC-3	
— at 400 V rated value	305 A
minimum cross-section in main circuit at maximum AC-1	300 mm ²
rated value	
operating power	400.1114
at AC-3 at 400 V rated value	160 kW
no-load switching frequency	200.4/5
at AC at DC	300 1/h 300 1/h
Control circuit/ Control	300 1/11
type of voltage	AC
type of voltage type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	AGIDO
• at 50 Hz rated value	100 250 V
at 60 Hz rated value	100 250 V
control supply voltage at DC	
• rated value	100 250 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	385 VA
• at 60 Hz	385 VA
apparent holding power of magnet coil at AC	4
• at 50 Hz	17.5 VA
• at 60 Hz	17.5 VA
closing power of magnet coil at DC holding power of magnet coil at DC	410 W 4.5 W
closing delay	4.5 W
• at AC	30 60 ms
• at DC	30 60 ms
opening delay	30 111 30 1110
• at AC	45 80 ms
• at DC	45 80 ms
control version of the switch operating mechanism	Standard A1 - A2
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 at 400 V rated value	4 A
at 400 V rated value at 500 V rated value	3 A 2 A
at 500 V rated valueat 690 V rated value	2 A 2 A
operational current at DC-13	- 47
• 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	0.55 A

 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
design of the fuse link	
 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
height	225 mm
width	184 mm
depth	180 mm
required spacing	
with side-by-side mounting forwards	20 mm
— forwards — upwards	20 mm 10 mm
— upwards — downwards	10 mm
— at the side	0 mm
for grounded parts	V 11111
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
• for live parts	
— forwards	20 mm
— 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 for applications and control circuit	Connection bar, broadened > 450A required
for auxiliary and control circuit at contactor for auxiliary contacts	screw-type terminals
at contactor for auxiliary contacts of magnet coil	Screw-type terminals
of magnet coil connectable conductor cross-section for auxiliary	Screw-type terminals
contacts	1 4 mm²
solid or strandedfinely stranded with core end processing	1 4 mm ² 0.75 2.5 mm ²
type of connectable conductor cross-sections	0.7 0 2.0 Hilli
• 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 2.5 mm²), 2x (0.75 2.5 mm²)
at AWG cables for auxiliary contacts	1x (AWG 18 14), 2x (AWG 18 14)
AWG number as coded connectable conductor cross section	
for auxiliary contacts	18 14
Safety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes
 positively driven operation according to IEC 60947- 5-1 	No
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover

touch protection on the front according to IEC 60529 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

<u>Confirmation</u> <u>Miscellaneous</u> <u>Special Test Certific-</u>

<u>ate</u>

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=3RT1374-6AP36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1374-6AP36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1374-6AP36

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

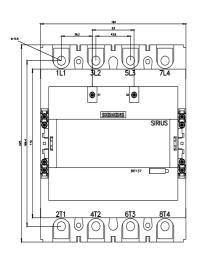
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1374-6AP36&lang=en

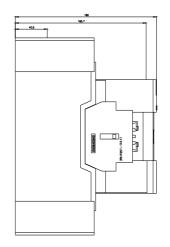
Characteristic: Tripping characteristics, I2t, Let-through current

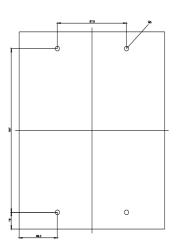
https://support.industry.siemens.com/cs/ww/en/ps/3RT1374-6AP36/char

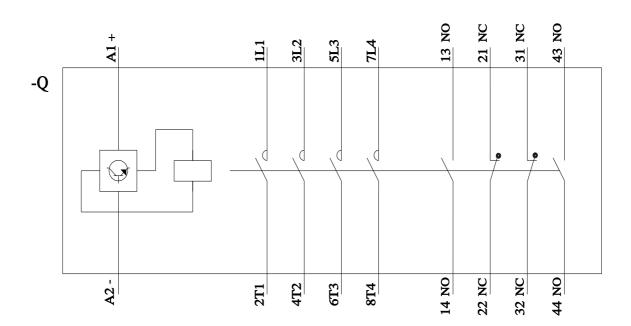
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1374-6AP36&objecttype=14&gridview=view1









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