SIEMENS

Data sheet

3RT1375-6AP36



Contactor, AC-1, 525 A/400 V/40 $^\circ\text{C},$ 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 	288 W
 at AC in hot operating state per pole 	72 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 	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 °C	350 A
rated value	
• at AC-3	
— at 400 V rated value	370 A
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
Control circuit/ Control	10
type of voltage	AC AC/DC
type of voltage of the control supply voltage control supply voltage at AC	ACIDC
• 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	
• at 50 Hz	17.5 VA
• at 60 Hz	17.5 VA
closing power of magnet coil at DC	410 W
holding power of magnet coil at DC	4.5 W
e at AC	30 60 ms
• at AC • at DC	30 60 ms
opening delay	50 00 1115
• 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	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 1 5 A
at 48 V rated value	1.5 A 0.55 A
at 110 V rated value	
• 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	go. 1077(000 V, 1107)		
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		
— upwards	10 mm		
— downwards	10 mm		
— at the side	0 mm		
 for grounded parts 			
— 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 	Connection bar, broadened > 450A required		
 for auxiliary and control circuit 	screw-type terminals		
 at contactor for auxiliary contacts 	Screw-type terminals		
of magnet coil	Screw-type terminals		
connectable conductor cross-section for auxiliary contacts			
 solid or stranded 	1 4 mm²		
 finely stranded with core end processing 	0.75 2.5 mm²		
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 2.5 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	IP00; IP20 with box terminal/cover		
60529			

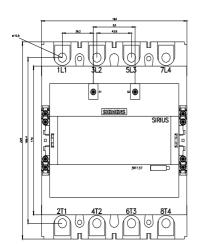
touch protection on the front according to IEC 60529		IEC 60529 fi	finger-safe, for vertical contact from the front with box terminal/cover			
Communication/ Protoco	l					
product function bus co	ommunication	Ν	0			
Certificates/ approvals						
General Product Appro	val			EMC	Test Certificates	
CCC	<u>Confirmation</u>	(U) u	EHC		<u>Special Test Certific</u> <u>ate</u>	
other		Railway				
Confirmation	<u>Miscellaneous</u>	Special Test Certif ate	i <u>c-</u>			
Further information Information- and DownI https://www.siemens.com		s, Brochures,)				
Industry Mall (Online or https://mall.industry.sieme	dering system)	Catalog/product?m	fb=3RT1375-6AP36			
Cax online generator http://support.automation.	.siemens.com/WW/0	CAXorder/default.as	px?lang=en&mlfb=3RT	1375-6AP36		
Service&Support (Manu https://support.industry.si	emens.com/cs/ww/e	<u>n/ps/3RT1375-6AF</u>	<u>36</u>	it diagrams, FPI A		

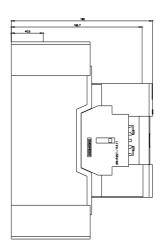
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1375-6AP36&lang=en

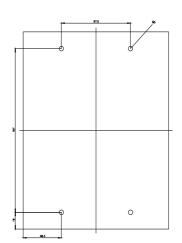
Characteristic: Tripping characteristics, I²t, Let-through current

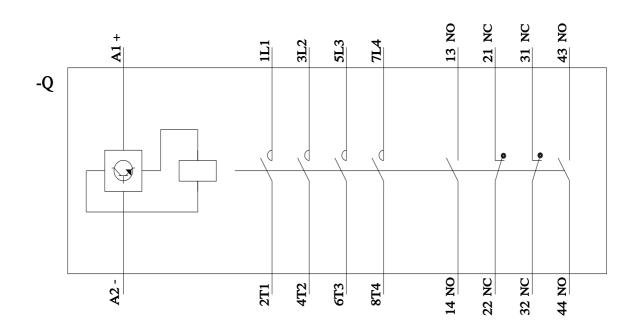
https://support.industry.siemens.com/cs/ww/en/ps/3RT1375-6AP36/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1375-6AP36&objecttype=14&gridview=view1









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