SIEMENS

Data sheet 3RT1363-6AP36



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 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	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 	275 A	
• at AC-1		
— up to 690 V at ambient temperature 40 $^{\circ}$ C rated value	275 A	
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ 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	

Issel value - at 400 V rated value 180 A 180 mm² 180 M 180 mm² 180	roted value	
— al 400 Y rated value minimum cross—section in main circuit at maximum AC-1 toted value operating power at AC-3 at 400 V rated value no-load switching frequency at AC bype of voltage of the control supply voltage control supply voltage at AC at 800 Hz rated value at 800 Hz	rated value	
minimum cross-section in main circuit at maximum AC-1 rated value operating power		400 A
rated value operating power * al AC-3 at 400 V rated value no-load switching frequency * al AC		
** al AC-3 at 400 V rated value no-load switching frequency		150 mm²
no-load switching frequency	operating power	
* all AC 300 t/h * all DC 300 t/h * type of voltage of the control supply voltage control supply voltage of the control supply voltage at AC 400 CC 500 CC	 at AC-3 at 400 V rated value 	90 kW
	no-load switching frequency	
Control circuit/ Control AC type of voltage of the control supply voltage control supply voltage at AC AC at 50 Hz rated value 100250 V at 50 Hz rated value 100250 V control supply voltage at DC 100250 V a rated value 100250 V operating range factor control supply voltage rated value of magnet coil at DC 100250 V initial value 0.8 unitial value 0.8	• at AC	300 1/h
type of voltage of the control supply voltage control supply voltage at AC ■ 15 0 Hz rated value ■ 15 0 Hz rated value ■ 100 250 V ■ 15 0 Hz rated value ■ 100 250 V ■ 100 250	• at DC	300 1/h
ype of voltage of the control supply voltage control supply voltage at AC	Control circuit/ Control	
control supply voltage at AC	type of voltage	AC
• at 50 Hz rated value • at 50 Hz rated value control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value operating range factor control supply voltage rated value of magnet coil at AC • initial value • full-scale value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz • at 7 VA • at 60 Hz	type of voltage of the control supply voltage	AC/DC
	control supply voltage at AC	
control supply voltage at DC	at 50 Hz rated value	100 250 V
• rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • initial value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz • at AC • at DC closing delay • at AC • at DC opening delay • at AC • at DC control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NC contacts for auxiliary contacts • attachable • instantaneous contact 12 • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 460 V rated value • at 480 V rated value • at 4	 at 60 Hz rated value 	100 250 V
• rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • initial value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz • at AC • at DC closing delay • at AC • at DC opening delay • at AC • at DC control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NC contacts for auxiliary contacts • attachable • instantaneous contact 12 • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 460 V rated value • at 480 V rated value • at 4	control supply voltage at DC	
value of magnet coil at DC		100 250 V
• full-scale value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz 2 20 VA 2 at 60 Hz 2 20 VA 2 apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz 2 20 VA 2 apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz 2 7 VA 2 at 60 Hz 2 10 VA 2 at 60 Hz 2 10 VA	-	0.0
operating range factor control supply voltage rated value of magnet coil at AC		
value of magnet coil at AC		1.1
at 60 Hz apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz at 7 VA closing power of magnet coil at DC closing delay at 60 Hz at 7 Hz at 7 Hz at 80		
apparent pick-up power of magnet coil at AC	● at 50 Hz	
	• at 60 Hz	0.85 1.1
a ti 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz at	apparent pick-up power of magnet coil at AC	
apparent holding power of magnet coil at AC at 150 Hz at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at DC opening delay at AC at DC other with a both according to be a both according to but a contact for auxiliary contacts attachable attachab	● at 50 Hz	220 VA
* at 50 Hz	• at 60 Hz	220 VA
• at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC opening delay • at AC • at DC control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact 1 2 • attachable • instantaneous contact 2 2 • attachable • at 230 V rated value • at 690 V rated value • at 150 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value	apparent holding power of magnet coil at AC	
Closing power of magnet coil at DC	● at 50 Hz	7 VA
holding power of magnet coil at DC closing delay at AC at DC opening delay at AC at DC opening delay at AC at DC other in at DC other in a to DC other in at DC other in a to DC other in at DC other	● at 60 Hz	7 VA
closing delay • at AC • at DC opening delay • at AC • at DC other of NC • at DC • attachable • instantaneous contact • attachable • instantaneous contact • attachable • instantaneous contact • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 1220 V rated value • at 220 V rated value • at 230 V	closing power of magnet coil at DC	190 W
	holding power of magnet coil at DC	2.5 W
• at DC opening delay • at AC • at DC • at DC • at DC control version of the switch operating mechanism Auxillary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact • attachable • attachable • instantaneous contact • attachable • attac	closing delay	
opening delay • at AC • at DC • at DC control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts 2 • attachable • instantaneous contact 2 coperational current at AC-15 • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 4800 V rated value • at 480 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 120 V rated value	• at AC	25 60 ms
at AC at DC at DC at DC control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts attachable att	• at DC	25 60 ms
at DC control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of NC contacts for auxiliary contacts attachable instantaneous contact number of NO contacts for auxiliary contacts attachable instantaneous contact attachable	opening delay	
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts	• at AC	45 80 ms
number of NC contacts for auxiliary contacts attachable attachable instantaneous contact attachable attachabl	• at DC	45 80 ms
number of NC contacts for auxiliary contacts attachable instantaneous contact 2 number of NO contacts for auxiliary contacts attachable instantaneous contact attachable instantaneous contact attachable instantaneous contact attachable instantaneous contact be instantaneous contact coperational current at AC-15 at 230 V rated value A A at 400 V rated value A A at 500 V rated value A A at 690 V rated value A A coperational current at DC-13 at 24 V rated value A A at 48 V rated value A A at 48 V rated value A A at 110 V rated value A A at 110 V rated value A A at 125 V rated value A A at 125 V rated value A A at 220 V rated value A A A A A A A A A A A A A A A	control version of the switch operating mechanism	Standard A1 - A2
 attachable instantaneous contact number of NO contacts for auxiliary contacts attachable instantaneous contact instantaneous contact operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 48 V rated value at 48 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 230 V rated value at 240 V rated value at 250 V rated value at 260 V rated value at 270 V rated value at 280 V rated	Auxiliary circuit	
 attachable instantaneous contact number of NO contacts for auxiliary contacts attachable instantaneous contact instantaneous contact instantaneous contact operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 24 V rated value at 24 V rated value at 24 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value o.55 A at 220 V rated value o.55 A at 220 V rated value o.455 A ot 220 V rated value ot 30.3 A UL/CSA ratings Contact rating of auxiliary contacts according to UL A600 / Q300 Short-circuit protection	number of NC contacts for auxiliary contacts	2
number of NO contacts for auxiliary contacts		2
 attachable instantaneous contact operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 24 V rated value at 24 V rated value at 24 V rated value at 48 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at	• instantaneous contact	2
 attachable instantaneous contact operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 24 V rated value at 24 V rated value at 24 V rated value at 48 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at	number of NO contacts for auxiliary contacts	2
operational current at AC-15 • at 230 V rated value	attachable	2
 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 24 V rated value 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 	 instantaneous contact 	2
 at 400 V rated value at 500 V rated value at 690 V rated value at 2 A Operational current at DC-13 at 24 V rated value at 48 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 220 V rated value A600 / Q300 Short-circuit protection A600 / Q300 	operational current at AC-15	
at 500 V rated value 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 110 V rated value 5.55 A at 125 V rated value 7.55 A at 220 V rated value 7.55 A at 220 V rated value 7.55 A at 200 V rated value 7.55 A Accordings contact rating of auxiliary contacts according to UL Short-circuit protection	• at 230 V rated value	4 A
at 690 V rated value operational current at DC-13	• at 400 V rated value	3 A
operational current at DC-13 out 24 V rated value out 48 V rated value out 1.5 A out 110 V rated value out 125 V rated value out 126 V rated value out 127 V rated value out 128 V rated value out 129 V rated value out	at 500 V rated value	2 A
 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 at 220 V rated value 3 A 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	• at 690 V rated value	2 A
 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 at 220 V rated value 3 A 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	operational current at DC-13	
at 48 V rated value at 110 V rated value at 125 V rated value at 220 V rated value but 220 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection 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	•	3 A
 at 110 V rated value at 125 V rated value at 220 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 Short-circuit protection		
at 125 V rated value at 220 V rated value 0.3 A UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection 0.55 A 0.3 A	• at 110 V rated value	
at 220 V rated value 0.3 A UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection 0.3 A A600 / Q300		
UL/CSA ratings contact rating of auxiliary contacts according to UL A600 / Q300 Short-circuit protection		
contact rating of auxiliary contacts according to UL A600 / Q300 Short-circuit protection		
Short-circuit protection		A600 / O300
		7,000 / 2000
product tunction snort circuit protection No		NI.
	product function snort circuit protection	INO

design of the fuse link

- for short-circuit protection of the main circuit
 - 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)

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	196 mm
width	140 mm
depth	153 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	00
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
net weight	3.85 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	Connection bar
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 mm ²
type of connectable conductor cross-sections	
for auxiliary contacts	4 (4 4 2) 0 (4 4 2)
— 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 AWG number as coded connectable conductor cross section	1x (AWG 18 14), 2x (AWG 18 14)
• for auxiliary contacts	18 14
Safety related data	· · · · · · ·
product function	Voc
mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60047.	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
pp. even	2







<u>ate</u>







other		Railway
Confirmation	Miscellaneous	Special Test Certific-

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

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

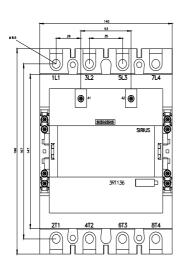
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1363-6AP36&lang=en

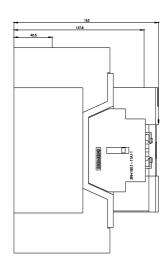
Characteristic: Tripping characteristics, I2t, Let-through current

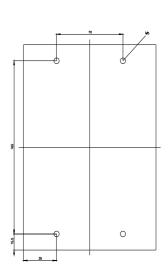
https://support.industry.siemens.com/cs/ww/en/ps/3RT1363-6AP36/char

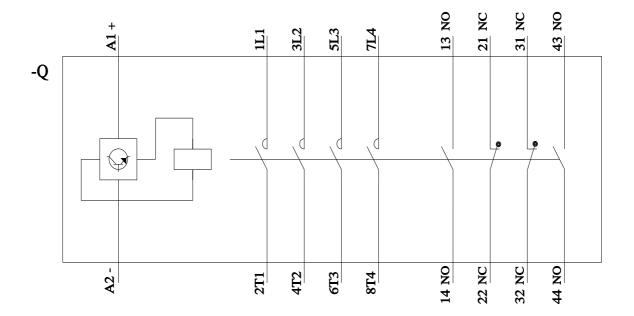
Further characteristics (e.g. electrical endurance, switching frequency)

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









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