## SIEMENS

## Data sheet

## 3RT1466-6AU36



power contactor AC-1 400 A / 690 V / 40  $^\circ$ C 3-pole, Uc: 240-277 V AC(50-60 Hz) / DC drive: conventional auxiliary contacts 2 NO + 2 NC main circuit: busbar control and auxiliary circuit: screw terminal

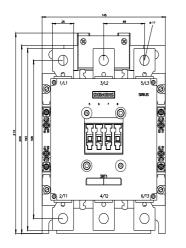
product brand name	SIRIUS
product designation	Contactor
product type designation	3RT14
General technical data	
size of contactor	S10
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	105.6 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	35.2 W
<ul> <li>without load current share typical</li> </ul>	7.4 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	500 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
during storage	-55 +80 °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	3

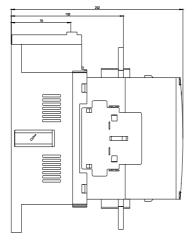
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
type of voltage for main current circuit	AC
operational current	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	400 A
— up to 690 V at ambient temperature 55 $^\circ C$ rated value	380 A
— up to 690 V at ambient temperature 60 $^\circ C$ rated value	380 A
• at AC-3	
— at 400 V rated value	138 A
— at 690 V rated value	138 A
minimum cross-section in main circuit at maximum AC-1 rated value	240 mm <sup>2</sup>
no-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
operating frequency at AC-1 maximum	600 1/h
Control circuit/ Control	
type of voltage	AC/DC
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	240 277 V
• at 60 Hz rated value	240 277 V
control supply voltage at DC	
• rated value	240 277 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	0.8 1.1
• at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
• at 50 Hz	590 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.9
<ul> <li>apparent holding power of magnet coil at AC</li> <li>at 50 Hz</li> </ul>	6.7 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.9
closing power of magnet coil at DC	650 W
holding power of magnet coil at DC	7.4 W
closing delay	
• at AC	30 95 ms
• at DC	30 95 ms
opening delay	
• at AC	40 80 ms
• at DC	40 80 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
attachable	4
instantaneous contact	2
number of NO contacts for auxiliary contacts	2
attachable	4
instantaneous contact	2
	2

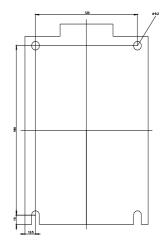
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 A
<ul> <li>at 400 V rated value</li> </ul>	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-13	
• at 24 V rated value	10 A
<ul> <li>at 48 V rated value</li> </ul>	2 A
• at 60 V rated value	2 A
<ul> <li>at 110 V rated value</li> </ul>	1 A
<ul> <li>at 125 V rated value</li> </ul>	0.9 A
<ul> <li>at 220 V rated value</li> </ul>	0.3 A
at 600 V rated value	0.1 A
design of the miniature circuit breaker for short-circuit protection	gG: 10 A (230 V, 400 A)
of the auxiliary switch required	$1 \text{ faulty avitabing par 100 million (17 \/ 1 mA)}$
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
Short-circuit protection	No
product function short circuit protection	
<ul> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> </ul>	gG: 500 A (690 V, 100 kA)
— with type of assignment 2 required	gR: 500 A (690 V, 100 kA) gR: 500 A (690 V, 100 kA)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	99. 10 A (500 V, 1 KA)
	with vertical mounting surface 1/00° relate bla with vertical mounting surface
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
<ul> <li>side-by-side mounting</li> </ul>	Yes
height	210 mm
width	145 mm
depth	202 mm
required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— 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
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
width of connection bar	25 mm
thickness of connection bar	6 mm
diameter of holes	11 mm 1
number of holes connectable conductor cross-section for main contacts	
solid or stranded	70 240 mm²
solid or stranded     stranded	70 240 mm <sup>-</sup> 70 240 mm <sup>2</sup>

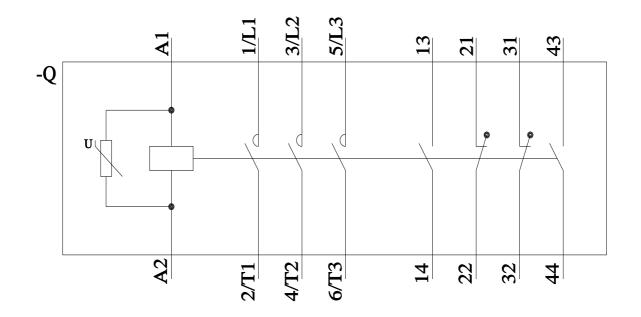
connectable conducto <ul> <li>solid or stranded</li> </ul>	or cross-section for auxil	-	4 mm²			
<ul> <li>finely stranded w</li> </ul>	ith core end processing	0.5	2.5 mm²			
type of connectable co	onductor cross-sections					
<ul> <li>for auxiliary containing</li> </ul>	acts					
— solid		2x	(0.5 1.5 mm²), 2x (0.75	2.5 mm²), max. 2x (0.75	5 4 mm²)	
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul>			2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), max. 2x (0.75 4 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )			
for AWG cables for auxiliary contacts			2x (0.5 1.5 mm <sup>-</sup> ), 2x (0.75 2.5 mm <sup>-</sup> ) 2x (20 16), 2x (18 14), 1x 12			
afety related data	of advinary contacts	24	(20 10), 2x (10 14), 1x	12		
		_				
product function						
	cording to IEC 60947-4-1	Ye				
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>						
protection class IP on	the front according to IE	EC 60529 IP(	00; IP20 with box terminal/co	ver		
touch protection on th	e front according to IEC	60529 fing	ger-safe, for vertical contact	from the front with box te	erminal/cover	
Certificates/ approvals						
General Product Appr	oval				EMC	
(SP)	<u>Confirmation</u>			EHC	RCM	
Functional Safety/Safety of Ma- chinery	Declaration of Conform	mity	Test Certificates		Marine / Shipping	
					-	
<u>Type Examination Cer-</u> tificate	UK CA	CE EG-Konf.	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report	ABS	
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