## SIEMENS

## Data sheet

## 3RT1476-6AD36



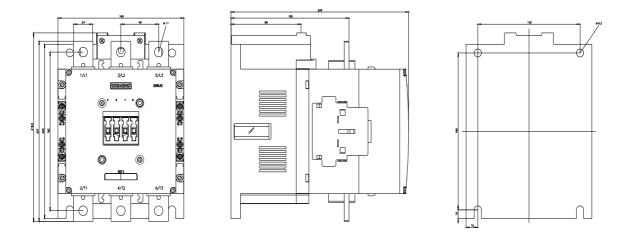
power contactor AC-1 690 A / 690 V / 40  $^\circ$ C 3-pole, Uc: 42-48 V AC(50-60 Hz) / DC drive: conventional auxiliary contacts 2 NO + 2 NC main circuit: busbar control and auxiliary circuit: screw terminal

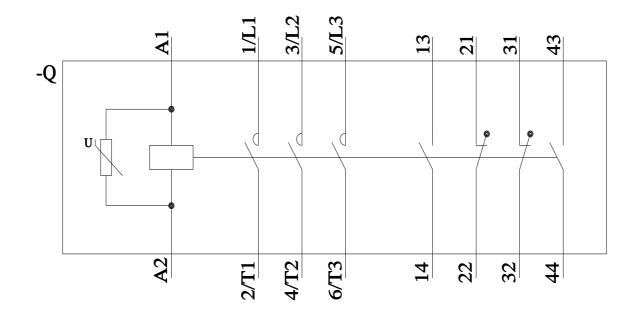
product brand name	SIRIUS
product designation	Contactor
product type designation	3RT14
General technical data	
size of contactor	S12
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	185.7 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	61.9 W
<ul> <li>without load current share typical</li> </ul>	10 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
of the contactor with added auxiliary switch block typical	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	
during operation	-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	
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	690 A
— up to 690 V at ambient temperature 55 °C rated value	650 A
— up to 690 V at ambient temperature 60 °C rated value	650 A
• at AC-3	
— at 400 V rated value	170 A
— at 690 V rated value	170 A
minimum cross-section in main circuit at maximum AC-1 rated value	480 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	42 48 V
• at 60 Hz rated value	42 48 V
control supply voltage at DC	
rated value	42 48 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	830 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.9
apparent holding power of magnet coil at AC	
● at 50 Hz	9.2 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.9
closing power of magnet coil at DC	920 W
holding power of magnet coil at DC	10 W
closing delay	
• at AC	45 100 ms
• at DC	45 100 ms
opening delay	
• at AC	60 100 ms
• at DC	60 100 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

operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 A
• at 400 V rated value	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
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
	gG: 10 A (230 V, 400 A)
of the auxiliary switch required	1  faulty authors par 100 million (17.) (1 mA)
	1 faulty switching per 100 million (17 V, 1 mA)
Short-circuit protection	A1-
	No
design of the fuse link	
for short-circuit protection of the main circuit     with type of econditation 1 required	
	gG: 800 A (690 V, 50 kA)
	gR: 710 A (690 V, 100 kA)
	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
side-by-side mounting	Yes
	214 mm
width	160 mm
depth	225 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
Connections/ Terminals	
type of electrical connection	
	Connection bar
• for auxiliary and control circuit	
	screw-type terminals
at contactor for auxiliary contacts	screw-type terminals Screw-type terminals
of magnet coil	Screw-type terminals
of magnet coil     width of connection bar	Screw-type terminals Screw-type terminals
of magnet coil     width of connection bar     thickness of connection bar	Screw-type terminals Screw-type terminals 25 mm
of magnet coil     width of connection bar     thickness of connection bar     diameter of holes	Screw-type terminals Screw-type terminals 25 mm 6 mm
of magnet coil     width of connection bar     thickness of connection bar     diameter of holes	Screw-type terminals Screw-type terminals 25 mm 6 mm 11 mm
of magnet coil     width of connection bar     thickness of connection bar     diameter of holes     number of holes     connectable conductor cross-section for main contacts	Screw-type terminals Screw-type terminals 25 mm 6 mm 11 mm

	r cross-section for auxi	-	4			
<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul>			0.5 4 mm² 0.5 2.5 mm²			
			2.5 mm²			
	onductor cross-sections	;				
<ul> <li>for auxiliary conta</li> </ul>	icts					
<ul> <li>— solid</li> <li>— solid or stranded</li> </ul>		2x (	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> ), max. 2x (0,75 4 mm <sup>2</sup> )			
		2x (				
<ul> <li>finely stranded with core end processing</li> </ul>		ing 2x (	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
<ul> <li>for AWG cables for</li> </ul>	or auxiliary contacts	2x (	20 16), 2x (18 14), 1x	12		
afety related data						
product function						
•	cording to IEC 60947-4-1	Yes	3			
mirror contact according to IEC 60947-4-1     positively driven operation according to IEC 60947-5-1 protection class IP on the front according to IEC 60529			, ,			
			IP00; IP20 with box terminal/cover			
-			,			
•	e front according to IEC	60529 fing	er-safe, for vertical contact	from the front with box te	rminal/cover	
Certificates/ approvals						
General Product Appr	oval				EMC	
(Street)	<u>Confirmation</u>			EHC	RCM	
Functional Safety/Safety of Ma- chinery	Declaration of Confor	mity	Test Certificates		Marine / Shipping	
<u>Type Examination Cer-</u> tificate	CE EG-Konf.	UK CA	<u>Type Test Certific-</u> <u>ates/Test Report</u>	<u>Special Test Certific-</u> <u>ate</u>	ABS	
Marine / Shipping				other		
Marine / Shipping	0	•			Confirmation	
Marine / Shipping	<b>A</b>		Comments of	other Confirmation	Confirmation	
Marine / Shipping	6	$\odot$	(DNV-GL)		Confirmation	
Marine / Shipping	PRS	KMRS	DNVI-GL		Confirmation	
Lloyds Register	PRS	KMRS	DNV-GL DNV-GL		<u>Confirmation</u>	
Lloyd's Register urs	<b>PRS</b> Railway	RMRS	ENVILCEMENT		Confirmation	
Lloyds Register urs	Railway Special Test Certific- ate	<b>Vibration and Shock</b>	ENVILCEMENT		Confirmation	
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