## SIEMENS

## Data sheet

## 3RT1476-2AP36



power contactor AC-1 690 A / 690 V / 40  $^\circ$ C 3-pole, Uc: 220-240 V AC(50-60 Hz) / DC drive: conventional auxiliary contacts 2 NO + 2 NC main circuit: busbar control and auxiliary circuit: spring-loaded 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
type of calculation of power loss depending on pole	quadratic
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
SVHC substance name	Lead - 7439-92-1
Weight	10.346 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
<ul> <li>during storage</li> </ul>	-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	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>
operational current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	500 A
— at 60 V rated value	500 A
— at 110 V rated value	33 A
— at 220 V rated value	3.8 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.6 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	500 A
— at 60 V rated value	500 A
— at 110 V rated value	500 A
— at 220 V rated value	500 A
— at 440 V rated value	4 A
— at 600 V rated value	2 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	500 A
— at 60 V rated value	500 A
— at 110 V rated value	500 A
— at 220 V rated value	500 A
— at 440 V rated value	11 A
— at 600 V rated value	5.2 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	500 A
— at 60 V rated value	11 A
— at 110 V rated value	3 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.18 A
— at 600 V rated value	0.125 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	500 A
— at 60 V rated value	500 A
— at 110 V rated value	500 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	500 A
— at 60 V rated value	500 A
— at 110 V rated value	500 A
— at 220 V rated value	500 A
— at 440 V rated value	1.4 A

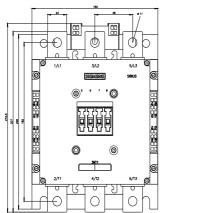
at 600 V/ rated value	0.75.4
at 600 V rated value	0.75 A
no-load switching frequency	0.000.4/
• at AC	2 000 1/h
• at DC	2 000 1/h
operating frequency at AC-1 maximum	600 1/h
Control circuit/ Control	
type of voltage	AC/DC
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	220 240 V
• at 60 Hz rated value	220 240 V
control supply voltage at DC rated value	220 240 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	
at minimum rated control supply voltage at AC	
— at 50 Hz	700 VA
— at 60 Hz	700 VA
<ul> <li>at maximum rated control supply voltage at AC</li> </ul>	
— at 60 Hz	830 VA
— at 50 Hz	830 VA
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	0.0
at minimum rated control supply voltage at DC	8.5 VA
<ul> <li>at maximum rated control supply voltage at DC</li> </ul>	10 VA
apparent holding power	
at minimum rated control supply voltage at AC	
— at 50 Hz	7.6 VA
— at 60 Hz	7.6 VA
	7.0 VA
at maximum rated control supply voltage at AC	0.01/4
— at 50 Hz	9.2 VA
— at 60 Hz	9.2 VA
apparent holding power of magnet coil at AC	0.01/4
• at 50 Hz	9.2 VA
inductive power factor with the holding power of the coil	0.0
• 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

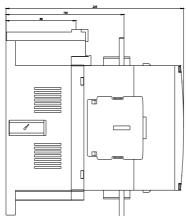
attachable	4				
attacnable     instantaneous contact	4				
operational current at AC-12 maximum	2				
operational current at AC-15	10 A				
at 230 V rated value	6 A				
at 400 V rated value	3A				
at 500 V rated value					
at 690 V rated value	2 A 1 A				
operational current at DC-13					
at 24 V rated value	10 A				
at 48 V rated value	10 A 2 A				
• at 60 V rated value	2 A 2 A				
at 110 V rated value	1A				
• at 125 V rated value	0.9 A				
• at 220 V rated value	0.3 A				
at 600 V rated value	0.1 A				
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)				
Short-circuit protection					
design of the miniature circuit breaker for short-circuit protection	C characteristic: 10 A; 0.4 kA				
of the auxiliary circuit up to 230 V					
design of the fuse link					
<ul> <li>for short-circuit protection of the main circuit</li> </ul>					
- with type of coordination 1 required	gG: 800 A (690 V, 50 kA)				
- with type of assignment 2 required	gR: 710 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					
mounting position	with vertical mounting surface $\pm$ -90° rotatable, with vertical mounting surface				
fastaning mathed aids by side maunting	+/- 22.5° tiltable to the front and back				
fastening method side-by-side mounting	Yes				
fastening method	screw fixing				
height width	214 mm				
width	160 mm 225 mm				
depth required spacing					
with side-by-side mounting					
with side-by-side mounting     — forwards	20 mm				
— upwards	10 mm				
— upwards — 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					
for main current circuit	Connection bar				
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals				
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals				
• of magnet coil	Spring-type terminals				
connectable conductor cross-section for main contacts					
solid or stranded	70 240 mm²				
• stranded	70 240 mm <sup>2</sup>				
connectable conductor cross-section for auxiliary contacts					
<ul> <li>solid or stranded</li> </ul>	0.25 2.5 mm <sup>2</sup>				
<ul> <li>finely stranded with core end processing</li> </ul>	0.25 1.5 mm²				
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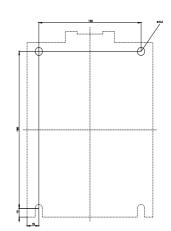
<ul> <li>finely stranded with</li> </ul>	ithout core end processin	na	0.25	2.5 mm²			
	onductor cross-section	-	_				
<ul> <li>for auxiliary conta</li> </ul>	acts						
— solid			2x (0	).25 2.5 mm²)			
— solid or stra	— solid or stranded			),25 2,5 mm²)			
— finely stranded with core end processing			).25 1.5 mm²)				
-	led without core end proc	-		).25 2.5 mm²)			
2	or auxiliary contacts	seconig		24 14)			
Safety related data							
product function							
•	cording to IEC 60947-4-1	1					
	operation according to IE			Yes No			
suitability for use safety-		0 00347-3-1	_				
service life maximum	Telated switching of T		20 a	No 20 a			
Electrical Safety			20 a				
	the front according to	IEC 60529	IDUU	; IP20 with box terminal/cov	vor.		
-	the front according to IE		_	r-safe, for vertical contact f		orminal/oovor	
Approvals Certificates	e from according to i	C 80529	linge		officine front with box i	erminal/cover	
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Further information							
Information on the pac	ckaging						
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Characteristic: Trippin	ng characteristics, I <sup>2</sup> t, Lo	et-through curre	nt				
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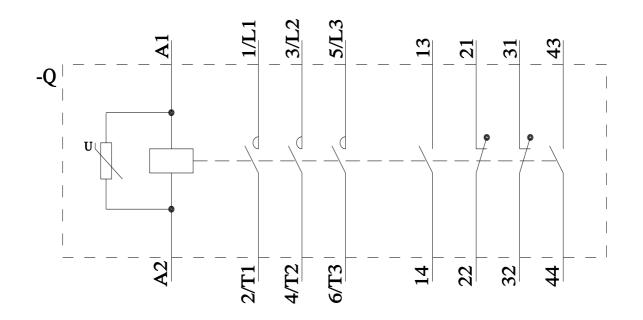
https://support.industry.siemens.com/cs/ww/en/ps/3RT1476-2AP36/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1476-2AP36&objecttype=14&gridview=view1









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