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

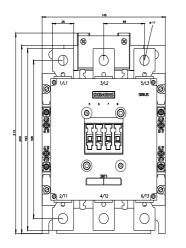
product brand name	SIRIUS
product designation	Contactor
product type designation	3RT14
General technical data	
size of contactor	S10
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	105.6 W
 at AC in hot operating state per pole 	35.2 W
 without load current share typical 	7.4 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	500 V
surge voltage resistance	
 of main circuit rated value 	8 kV
 of auxiliary circuit rated value 	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)	
 of contactor typical 	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	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

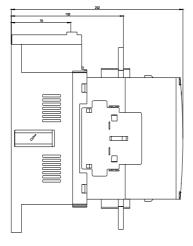
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
type of voltage for main current circuit	AC
operational current	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	400 A
— up to 690 V at ambient temperature 55 $^\circ C$ rated value	380 A
— up to 690 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 ²
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
 apparent holding power of magnet coil at AC at 50 Hz 	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

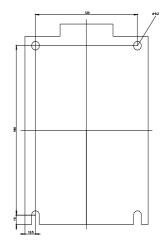
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 A
 at 400 V rated value 	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-13	
• at 24 V rated value	10 A
 at 48 V rated value 	2 A
• at 60 V rated value	2 A
 at 110 V rated 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
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	
 design of the fuse link for short-circuit protection of the main circuit 	
 for short-circuit protection of the main circuit — with type of coordination 1 required 	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)
 for short-circuit protection of the auxiliary switch required 	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
 side-by-side mounting 	Yes
height	210 mm
width	145 mm
depth	202 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	
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 ⁻ 70 240 mm ²

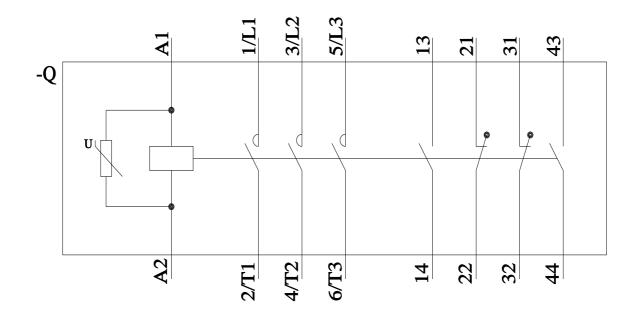
connectable conducto solid or stranded 	or cross-section for auxil	-	4 mm²			
 finely stranded w 	ith core end processing	0.5	2.5 mm²			
type of connectable co	onductor cross-sections					
 for auxiliary containing 	acts					
— solid		2x	(0.5 1.5 mm²), 2x (0.75	2.5 mm²), max. 2x (0.75	5 4 mm²)	
 — solid or stranded — finely stranded with core end processing 			2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), max. 2x (0.75 4 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
for AWG cables for auxiliary contacts			2x (0.5 1.5 mm ⁻), 2x (0.75 2.5 mm ⁻) 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				
 positively driven operation according to IEC 60947-5-1 						
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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