SIEMENS

Data sheet

3RT1476-6AU36



Contactor, AC-1, 690 A/690 V/40 $^\circ\text{C},$ S12, 3-pole, 240-277 V AC/DC, with varistor, 2 NO+2 NC, Connection rail/ screw terminal

product brand name	SIRIUS		
product designation	Contactor		
product type designation	3RT14		
General technical data			
size of contactor	S12		
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 	185.7 W		
 at AC in hot operating state per pole 	61.9 W		
without load current share typical	10 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 (switching 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	95 %		

maximum	
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	
	COD A
— up to 690 V at ambient temperature 40 °C rated value	690 A
— up to 690 V at ambient temperature 55 °C	650 A
rated value	
— up to 690 V at ambient temperature 60 °C	650 A
rated value	
• 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	480 mm ²
rated value	
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	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

	a attachabla	4			
number of NO contacts for auxiliary contacts 2 • Ittischable 4 • Ittischable 2 operational current at AC-12 maximum 10 A operational current at AC-15 6 • Ittischable 3A • Ittischable 6A • Ittischable 3A • Ittischable 1A operational current at AC-15 6 • Ittischable 1A operational current at AC-15 1A operational current at AC-16 1A of A Oracle value 2A • Itto V rated value 0A op at A Do (230 V, 400 A) Contact ittosition contact reliability of auxilary contacts 1 faulty switching per 100 million (17 V, 1 mA) Stort-Contar protection No design of the minan circuit ge: 800 A (850 V, 50 KA) or short-Caruit protection No de					
• instantaneous contact 2 operational current at AC-15 0 A • at 230 V rated value 6 A • at 300 V rated value 2 A • at 600 V rated value 2 A • at 600 V rated value 2 A • at 600 V rated value 2 A • at 60 V rated value 0 A • at 80 V rated value <	-				
operational current at AC-12 maximum 10 A operational current at AC-15 6 A • at 230 V rated value 3 A • at 300 V rated value 3 A • at 300 V rated value 1 A • operational current at DC-13 10 A • at 400 V rated value 1 A • at 400 V rated value 2 A • at 40 V rated value 2 A • at 10 V rated value 2 A • at 10 V rated value 0.9 A • at 10 V rated value 0.9 A • at 122 V rated value 0.1 A gesign of the ministure circuit breaker for short-circuit protection 1 faulty switching per 100 million (17 V, 1 mA) Stort-circuit protection of the suiking switch required 1 faulty switching per 100 million (17 V, 1 mA) Stort-circuit protection of the suiking switch required 1 faulty switching per 100 million (17 V, 1 mA) Stort-circuit protection of the maximi circuit 9G: 10 A (680 V, 100 kA) - with type of asognment 2 required gG: 10 A (680 V, 100 kA) - of the sub link 10 mm - for short-circuit protection of the auximi sy switch required 225 mm featering method					
operational current at AC-15 6 • at 230 Vrated value 3 A • at 500 Vrated value 3 A • at 500 Vrated value 2 A • at 500 Vrated value 1 A operational current at DC-13 1 A • at 60 Vrated value 1 A operational current at DC-13 1 A • at 60 Vrated value 2 A • at 61 Vrated value 1 A • at 610 Vrated value 0 A • at 25 Vrated value 0 A • or stort-circuit protection g8: 10 A (680 V, 400 A) product function short circuit protection d8: 10 A (680 V, 100 KA) • or stort-circuit protection of the main circuit g6: 10 A (680 V, 100 KA) • or stort-circuit protection of the auxiliary switch required g6: 10 A (600 V, 100 KA) • or storotacis au					
 at 230 V rated value at 630 V rated value at 630 V rated value at 630 V rated value at 630 V rated value 1A operational current at DC-13 at 64 V rated value at 64 V rated value 10 A at 64 V rated value 2A at 610 V rated value 03 A at 620 V rated value 03 A at 620 V rated value 03 A at 620 V rated value 03 A at 600 V rated value 01 A (230 V, 400 A) contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) Short-circuit protection of the main circuit or short-circuit protection of the main circuit or short-circuit protection of the main circuit or short-circuit protection of the auxiliary switch regulad or switch 30 or m	-				
is at 400 V rated value is at 500 V rated value is at 40 V rated value is at 500 V rate 500 V rated value is at 500 V rated value i	-	6 A			
• at 500 V rated value 2 A • at 500 V rated value 1 A • at 24 V rated value 10 A • at 48 V rated value 10 A • at 48 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 0.9 A • at 125 V rated value 0.1 A • at 20 V rated value 0.1 A • at 20 V rated value 0.1 A • at 300 V rated value 0.1 A • at thype of assin					
• at 850 V rated value 1 A operational current at 0C-13 0 • at 24 V rated value 2 A • at 80 V rated value 2 A • at 10 V rated value 1 A • at 25 V rated value 0.9 A • at 22 V rated value 0.3 A • at 200 V rated value 0.1 A • et 300 V rated value 0.1 A • of rastort-circuit protection 96: 10 A (500 V, 400 A) • of rastort-circuit protection of the main circuit 97: 710 A (600 V, 10 KA) • et solo 98: 710 A (600 V, 1 KA) • et solo 98: 710 A (600 V, 1 KA) • et solo 98: 710 A (600 V, 1 KA) • et solo 98: 710 A (600 V, 1 KA) • et solo 98: 710 A (600 V, 1 KA) <					
operational current at DC-13 10 A • at 24 V rated value 10 A • at 48 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 2 A • at 125 V rated value 0.9 A • at 220 V rated value 0.1 A design of the miniature circuit breaker for short-circuit protection of the auxiliary water equired 01 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) Short-circuit protection of the main circuit - with type of coordination 1 required - with type of coordination 1 required gG: 800 A (680 V, 50 kA) - with type of coordination 1 required gG: 800 A (680 V, 50 kA) - with type of coordination 1 required gG: 800 A (680 V, 10 kA) - with type of coordination 1 required gG: 800 A (680 V, 10 kA) - with type of coordination 1 required gG: 800 A (680 V, 10 kA) - with type of coordination 1 required gG: 800 A (680 V, 10 kA) - for short-circuit protection of the auxiliary switch gG: 800 A (680 V, 10 kA) - for watch calcular protection of the auxiliary switch gG: 800 A (680 V, 10 kA) - for wards 20 mm <td></td> <td></td>					
• at 24 V rated value 10 Å • at 80 V rated value 2 Å • at 80 V rated value 2 Å • at 100 V rated value 1 Å • at 220 V rated value 0 3 Å • at 220 V rated value 0 3 Å • at 200 V rated value 0 3 Å • at 200 V rated value 0 3 Å • at 200 V rated value 0 1 Å design of the miniature circuit breaker for short-circuit grotection gG: 10 Å (230 V, 400 Å) protect functions short circuit protection 1 faulty switching per 100 million (17 V, 1 mÅ) Short-circuit protection No design of the fuse link No • for short-circuit protection of the anin circuit gG: 800 Å (690 V, 100 kÅ) • for short-circuit protection of the auxiliary switch required gG: 10 Å (690 V, 100 kÅ) • for short-circuit protection of the auxiliary switch required gG: 10 Å (690 V, 100 kÅ) • iside-by-side mounting with vertical mounting surface +2.2.9 " titable to the front and back side-by-side mounting Yes height 225 mm • with side-by-side mounting 225 mm • with side-by-side mounting 0 mm • diverside 0 mm • diverside 0 mm • diverside 0 mm • diverside 0 mm					
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• at 110 V rated value 1 A • at 125 V rated value 0.9 A • at 200 V rated value 0.3 A • at 600 V rated value 0.1 A gesign of the ministure circuit breaker for short-circuit protection of the auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) Short-Circuit protection No design of the fuse link 9G: 10 A (230 V, 400 A) product function short circuit protection No design of the fuse link 9G: 800 A (690 V, 50 KA) - with type of coordination 1 required 9G: 800 A (690 V, 50 KA) - with type of coordination 1 required 9G: 10 A (500 V, 10 KA) - of short-circuit protection of the auxiliary switch required 9G: 10 A (500 V, 10 KA) - for short-circuit protection of the auxiliary switch required 9G: 10 A (500 V, 10 KA) • for short-circuit protection of the auxiliary switch required 9G: 10 A (500 V, 10 KA) • for short-circuit protection of the auxiliary switch required 9G: 10 A (500 V, 10 KA) • side-by-side mounting Screw Kaing • side-by-side mounting Yes height 214 mm witch 100 mm - onwards 20 mm - onwards 20 mm - onwards 10 mm - onwards 10 mm - onwards 10					
• at 220 V rated value 0.3 Å • at 600 V rated value 0.1 Å Øesign of the ministure circuit protection 95:10 Å (230 V, 400 Å) contact reliability of auxiliary switch required 95:10 Å (230 V, 400 Å) Short-Circuit protection No design of the taxe link • • for short-circuit protection of the main circuit - • with type of assignment 2 required 95:10 Å (580 V, 100 Å) • or short-circuit protection of the auxiliary switch required 95:10 Å (580 V, 100 Å) • for short-circuit protection of the auxiliary switch required 95:10 Å (580 V, 100 Å) Installation/ mounting / dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tittable to the front and back fastening method screw fixing screw fixing • side-by-side mounting Yes height 214 mm with side-by-side mounting Yes • for grounded parts 20 mm - forwards 20 mm - upwards 10 mm - at the side 10 mm - at the side 10 mm - downwards 10 mm - at the side 10 mm - forwards 20 mm - forwards 10 mm - at the side 10 mm					
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	product function short circuit protection	No			
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 for grounded parts forwards upwards at the side downwards downwards for live parts for vards forwards at the side at contactor for auxiliary contacts 		10 mm			
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at the side10 mm at the side10 mm downwards10 mm• for live parts20 mm forwards20 mm upwards10 mm downwards10 mm at the side10 mm at the side10 mmConnections/ Terminalstype of electrical connection• for main current circuitConnection bar• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals					
- downwards10 mm• for live parts forwards20 mm- upwards10 mm- downwards10 mm- at the side10 mm- at the side10 mmConnections/ Terminalstype of electrical connection• for main current circuitConnection bar• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals					
 for live parts for wards for wards upwards downwards at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit screw-type terminals screw-type terminals 					
- forwards20 mm- upwards10 mm- downwards10 mm- at the side10 mm- at the side10 mmConnections/ Terminalstype of electrical connection• for main current circuitConnection bar• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals		10 mm			
- upwards10 mm- downwards10 mm- at the side10 mmConnections/ Terminalstype of electrical connection• for main current circuitConnection bar• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals					
downwards 10 mm at the side 10 mm Connections/ Terminals 10 mm type of electrical connection Connection bar • for main current circuit Connection bar • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals					
	•				
Connections/ Terminals type of electrical connection Connection bar • for main current circuit Connection bar • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals					
type of electrical connection Connection bar • for main current circuit Connection bar • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals					
• for main current circuitConnection bar• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals					
• for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals	type of electrical connection				
at contactor for auxiliary contacts Screw-type terminals		Connection her			
	• for main current circuit				
• or magnet con	 for main current circuit for auxiliary and control circuit 	screw-type terminals			
	 for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts 	screw-type terminals Screw-type terminals			

width of connection			25 mm			
thickness of conne	ction bar		6 mm			
diameter of holes			11 mm			
number of holes			1			
type of connectable	e conductor cross-sec	tions				
 at AWG cables for main contacts 			2/0 500 kcn	nil		
	ctor cross-section for	main				
contacts						
 solid or strande 	ed		70 240 mm			
 stranded 			70 240 mm	2		
	ctor cross-section for	auxiliary				
contacts	1		0.5 4			
 solid or strande 			0.5 4 mm ²	2		
	with core end processi	-	0.5 2.5 mm	-		
	e conductor cross-sec	tions				
 for auxiliary co 	ntacts					
— solid					2.5 mm²), max. 2x	
— solid or st				, ,	2,5 mm²), max. 2x	x (0,75 4 mm²)
	nded with core end proc	cessing		mm²), 2x (0.75		
at AWG cables	s for auxiliary contacts		2x (20 16),	2x (18 14), 1	1x 12	
Safety related data						
product function						
 mirror contact 	according to IEC 60947	-4-1	Yes			
 positively driven operation according to IEC 60947- 5-1 			No			
protection class IP 60529	on the front according	to IEC	IP00; IP20 wit	h box terminal	/cover	
	the front according to	0 IEC 60529	finger-safe fo	r vertical conta	ct from the front with	box terminal/cover
Certificates/ approva	-		iniger care, ier			
General Product A	pproval				EMC	Functional Safety/Safety of Machinery
	<u>Confirmation</u>	(ل س	E	AC	RCM	<u>Type Examination</u> <u>Certificate</u>
Declaration of Con	formity	Test Certifica	ites		Marine / Shipping	
CE EG-Konf.	UK CA	<u>Type Test Ce</u> ates/Test Re		Test Certific- ate	ABS	Lloyd's Register urs
Marine / Shipping			other			
PRS	RMRS RMRS	DNV-GL DNV-GL	Con	firmation	<u>Miscellaneous</u>	<u>Confirmation</u>
Railway						
Special Test Certific-						
ate						

Further information

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last modified:

3/15/2022 🖸