SIEMENS

Data sheet

3RT1456-6AB38-0PA5



power contactor AC-1 275 A / 690 V / 40 $^\circ$ C 3-pole, Uc: 23-26 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	S6		
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 	86.4 W		
 at AC in hot operating state per pole 	28.8 W		
 without load current share typical 	5.2 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	275 A
— up to 690 V at ambient temperature 55 $^\circ$ C rated value	250 A
— up to 690 V at ambient temperature 60 °C rated value	250 A
• at AC-3	
— at 400 V rated value	97 A
— at 690 V rated value	97 A
minimum cross-section in main circuit at maximum AC-1 rated value	140 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	23 26 V
at 60 Hz rated value	23 26 V
control supply voltage at DC	
rated value	23 26 V
operating range factor control supply voltage rated value of	23 20 V
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	250 VA
— at 60 Hz	250 VA
at maximum rated control supply voltage at AC	
— at 60 Hz	300 VA
— at 50 Hz	300 VA
apparent pick-up power of magnet coil at AC	
• at 50 Hz	300 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.9
apparent holding power	
at minimum rated control supply voltage at DC	4.3 VA
 at maximum rated control supply voltage at DC at maximum rated control supply voltage at DC 	4.5 VA 5.2 VA
apparent holding power	0.2 1/1
at minimum rated control supply voltage at AC	
- at minimum rated control supply voltage at AC	4.8 VA
— at 50 Hz — at 60 Hz	4.8 VA 4.8 VA
	T.0 VA
• at maximum rated control supply voltage at AC	5 9 1/4
- at 50 Hz	5.8 VA
— at 60 Hz	5.8 VA
apparent holding power of magnet coil at AC	5.0.1/0
• at 50 Hz	5.8 VA
inductive power factor with the holding power of the coil	0.0
• at 50 Hz	0.8

	202.14
closing power of magnet coil at DC	360 W
holding power of magnet coil at DC	5.2 W
closing delay	
• at AC	20 95 ms
• at DC	20 95 ms
opening delay	
• at AC	40 60 ms
• at DC	40 60 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	1A
operational current at DC-13	
at 24 V rated value	10 A
at 48 V rated value	2 A
	2 A 2 A
at 60 V rated value	
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 design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required	0.1 A gG: 10 A (230 V, 400 A)
design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required	gG: 10 A (230 V, 400 A)
design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts	
design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts Short-circuit protection	gG: 10 A (230 V, 400 A) 1 faulty switching per 100 million (17 V, 1 mA)
design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts Short-circuit protection product function short circuit protection	gG: 10 A (230 V, 400 A)
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design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts Short-circuit protection product function short circuit protection design of the fuse link • for short-circuit protection of the main circuit	gG: 10 A (230 V, 400 A) 1 faulty switching per 100 million (17 V, 1 mA) No
design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts Short-circuit protection product function short circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required	gG: 10 A (230 V, 400 A) 1 faulty switching per 100 million (17 V, 1 mA) No gG: 355 A (690 V, 100 kA)
design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts Short-circuit protection product function short circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required	gG: 10 A (230 V, 400 A) 1 faulty switching per 100 million (17 V, 1 mA) No gG: 355 A (690 V, 100 kA) gR: 350 A (690 V, 100 kA)
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design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts Short-circuit protection product function short circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	gG: 10 A (230 V, 400 A) 1 faulty switching per 100 million (17 V, 1 mA) No gG: 355 A (690 V, 100 kA) gR: 350 A (690 V, 100 kA) gG: 10 A (500 V, 10 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing
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— forwards			20 mm		
— upwards			10 mm		
— downwards			10 mm		
— at the side			10 mm		
Connections/ Terminals	3				
type of electrical conn					
 for main current of 			Connection bar		
 for auxiliary and of 			screw-type terminals		
	 at contactor for auxiliary contacts 		Screw-type terminals		
of magnet coil			Screw-type terminals		
width of connection b	ar		17 mm		
thickness of connection			3 mm		
diameter of holes			9 mm		
number of holes			1		
	or cross-section for mair		1		
			25 120 mm²		
	solid or stranded		25 120 mm ²		
stranded			25 120 11111-		
	or cross-section for auxi		0.5 4 mm²		
solid or stranded			0.5 4 mm ²		
	ith core end processing		0.5 2.5 mm²		
	onductor cross-sections	5			
 for auxiliary containing 	acts				
— solid			2x (0.5 1.5 mm²), 2x (0.75		
— solid or stra			2x (0,5 1,5 mm²), 2x (0,75		4 mm²)
-	ded with core end process		2x (0.5 1.5 mm ²), 2x (0.75		
	for auxiliary contacts		2x (20 16), 2x (18 14), 1x	: 12	
Safety related data					
product function					
 mirror contact ac 	cording to IEC 60947-4-1		Yes		
 positively driven 	operation according to IEC	C 60947-5-1	No		
			110		
protection class IP on	the front according to I	EC 60529	IP00; IP20 with box terminal/co	over	
touch protection on th	the front according to I ne front according to IEC				rminal/cover
· · ·			IP00; IP20 with box terminal/co		rminal/cover
touch protection on th	ne front according to IEC		IP00; IP20 with box terminal/co		rminal/cover
touch protection on th Certificates/ approvals	ne front according to IEC		IP00; IP20 with box terminal/co	t from the front with box te	rminal/cover
touch protection on th Certificates/ approvals	ne front according to IEC		IP00; IP20 with box terminal/co		rminal/cover
touch protection on th Certificates/ approvals	ne front according to IEC		IP00; IP20 with box terminal/co	t from the front with box te	rminal/cover
touch protection on th Certificates/ approvals	ne front according to IEC		IP00; IP20 with box terminal/co	t from the front with box te	rminal/cover
touch protection on th Certificates/ approvals	ne front according to IEC	60529	IP00; IP20 with box terminal/co	t from the front with box te	rminal/cover
touch protection on th Certificates/ approvals	ne front according to IEC	60529	IP00; IP20 with box terminal/co	t from the front with box te	rminal/cover
touch protection on th Certificates/ approvals General Product Appr CSA	roval <u>Confirmation</u>	60529	IP00; IP20 with box terminal/configer-safe, for vertical contact	t from the front with box te	rminal/cover
touch protection on th Certificates/ approvals	roval <u>Confirmation</u> Functional Safety/Safety of Ma-	60529	IP00; IP20 with box terminal/configer-safe, for vertical contact	t from the front with box te	rminal/cover
touch protection on th Certificates/ approvals General Product Appr CSA	roval <u>Confirmation</u>	60529	IP00; IP20 with box terminal/configer-safe, for vertical contact	t from the front with box te	rminal/cover
touch protection on th Certificates/ approvals General Product Appr CSA	roval Confirmation Functional Safety/Safety of Ma- chinery	60529	IP00; IP20 with box terminal/cr finger-safe, for vertical contact	t from the front with box te	EAC
touch protection on th Certificates/ approvals General Product Appr CSA	roval <u>Confirmation</u> Functional Safety/Safety of Ma-	CCC	IP00; IP20 with box terminal/cr finger-safe, for vertical contact	t from the front with box te	rminal/cover
touch protection on th Certificates/ approvals General Product Appr CSA	roval Confirmation Functional Safety/Safety of Ma- chinery Type Examination Cer-	60529	IP00; IP20 with box terminal/cr finger-safe, for vertical contact	E from the front with box te	ERF Special Test Certific-
touch protection on th Certificates/ approvals General Product Appr CSA	roval Confirmation Functional Safety/Safety of Ma- chinery Type Examination Cer-	CCC	IP00; IP20 with box terminal/configer-safe, for vertical contact	E from the front with box te	ERF Special Test Certific-
touch protection on th Certificates/ approvals General Product Appr CSA	roval Confirmation Functional Safety/Safety of Ma- chinery Type Examination Cer-	Declaration of C	IP00; IP20 with box terminal/cr finger-safe, for vertical contact	E from the front with box te	ERF Special Test Certific-
touch protection on th Certificates/ approvals General Product Appr EMC EMC	roval Confirmation Functional Safety/Safety of Ma- chinery Type Examination Cer-	Declaration of C	IP00; IP20 with box terminal/cr finger-safe, for vertical contact	E from the front with box te	ERF Special Test Certific-
touch protection on th Certificates/ approvals General Product Appr CSA	roval Confirmation Functional Safety/Safety of Ma- chinery Type Examination Cer-	Declaration of C	IP00; IP20 with box terminal/cr finger-safe, for vertical contact	E from the front with box te	ERF Special Test Certific-
touch protection on th Certificates/ approvals General Product Appr EMC EMC	roval Confirmation Functional Safety/Safety of Ma- chinery Type Examination Cer-	Declaration of C	IP00; IP20 with box terminal/cr finger-safe, for vertical contact	Test Certificates Type Test Certific- ates/Test Report other	EAC Special Test Certific- ate
touch protection on th Certificates/ approvals General Product Appr EMC EMC	roval Confirmation Functional Safety/Safety of Ma- chinery Type Examination Cer-	Declaration of C	IP00; IP20 with box terminal/cr finger-safe, for vertical contact	Test Certificates	ERE Special Test Certific-
touch protection on th Certificates/ approvals General Product Appr EMC EMC	roval Confirmation Functional Safety/Safety of Ma- chinery Type Examination Cer-	Declaration of C	IP00; IP20 with box terminal/cr finger-safe, for vertical contact	Test Certificates Type Test Certific- ates/Test Report other	EAC Special Test Certific- ate
touch protection on th Certificates/ approvals General Product Appr EMC EMC	roval Confirmation Functional Safety/Safety of Ma- chinery Type Examination Cer-	Declaration of C	IP00; IP20 with box terminal/cr finger-safe, for vertical contact	Test Certificates Type Test Certific- ates/Test Report other	EAC Special Test Certific- ate
touch protection on th Certificates/ approvals General Product Appr EMC EMC Marine / Shipping	Functional Safety/Safety of Ma- chinery Type Examination Cer- tificate	Declaration of C	IP00; IP20 with box terminal/cr finger-safe, for vertical contact	Test Certificates Type Test Certific- ates/Test Report other	EAC Special Test Certific- ate
touch protection on th Certificates/ approvals General Product Appr EMC EMC Marine / Shipping	Functional Safety/Safety of Ma- chinery Type Examination Cer- tificate	Declaration of C	IP00; IP20 with box terminal/cr finger-safe, for vertical contact	Test Certificates Type Test Certific- ates/Test Report other	EAC Special Test Certific- ate
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Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

om/cs/ww/en/view/109813875 https://support.industry.sieme

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1456-6AB38-0PA5

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1456-6AB38-0PA5

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT1456-6AB38-0PA5

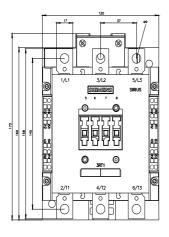
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1456-6AB38-0PA5&lang=en

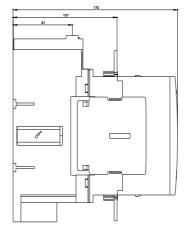
Characteristic: Tripping characteristics, I2t, Let-through current

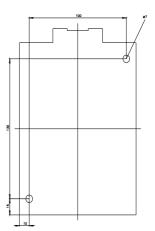
https://support.industry.siemens.com/cs/ww/en/ps/3RT1456-6AB38-0P A5/char

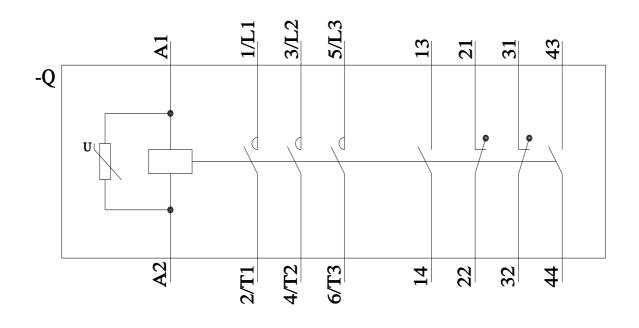
Further characteristics (e.g. electrical endurance, switching frequency)

3RT1456-6AB38-0PA5&objecttype=14&gridview=view1 http://www.automation.siemens.com/bilddb/index.aspx?view=S arch&mlfb=









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