## SIEMENS

## Data sheet

## 3RT1456-6AV36



power contactor AC-1 275 A / 690 V / 40 °C 3-pole, Uc: 380-420 V AC(50-60 Hz) / DC drive: conventional auxiliary contacts 2 NO + 2 NC main circuit: busbar control and auxiliary circuit: screw terminal

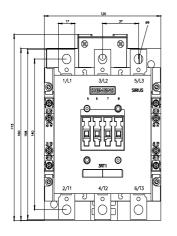
product brand name	SIRIUS
product brand name	Contactor
product designation	3RT14
product type designation General technical data	JRT 14
	00
size of contactor	S6
product extension	
function module for communication	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
at AC in hot operating 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	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	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)	
<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
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

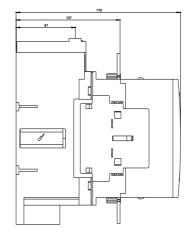
member of NC contacts for main contacts         0           Sype of voltage for main contacts         0           et Al AC-1	number of NO contacts for main contacts	3
Type of vortage for main current clicuit         AC           operational current         -up to 600 V at ambient temperature 40 °C rated         257 A           value         -up to 600 V at ambient temperature 55 °C rated         250 A           value         -up to 600 V at ambient temperature 55 °C rated         250 A           value         -up to 600 V at ambient temperature 60 °C rated         250 A           value         97 A         97 A		
operational current         -           • at AC-1         250 A           • ubb 650 V at ambient temperature 65 °C rated         250 A           • ubb 650 V at ambient temperature 60 °C rated         250 A           • at AO V rated value         250 A           • at AO V rated value         97 A           - at 400 V rated value         97 A           - at 400 V rated value         97 A           - at 650 V rated value         2000 1/h           operating frequency         400 mm²           - at 600 V rated value         2000 1/h           operating frequency         2000 1/h           - at 600 V rated value         2000 1/h           - at 600 V rated value         2000 1/h           - at 61D C         2000 1/h           Operating frequency         -           - at 61D C         2000 1/h           Operating range fractor control supply voltage         ACIDC           Control supply voltage at AC         ACIDC           Control supply voltage at AC at 0 vi         -           - at 610 hr rated value         0.8           - at 610 hr rated value         0.8           - at 610 hr actor control supply voltage rated value of magnet col at AC         -           - at 610 hr actor control supply voltage rat		
• al AC-1275 A• al BO Val an abiliant temperature 00 °C rated250 A• al BO Val an abiliant temperature 00 °C rased250 A• al BO Val an abiliant temperature 00 °C rased250 A• al AC-397 A• al AD V rated value97 A• al AD V rated value90 th• al AD V rated value2000 th• al AD V rated value2000 th• al AD V rated value2000 th• al AD Value AD-1 maximumAD DA TAOperating frequency4.00 C• al AD Value AD-1 maximum300 .420 V• al AD Value AD-1 maximum300 .420 V• al AD Value AD-1300 .420 V• al AD VA300 .420 V• al AD VA<		
value250 Å- up to 600 V at ambient temperature 60 °C rated97 Å- at 400 V rated value97 Å- at 400 V rated value97 Åminnum creas-section in main circuit at maximum AC-1 rated97 Åminnum creas-section in main circuit at maximum AC-1 rated97 Årol-Cod switching frequency2000 1/hor 100 G2000 1/hcod cod switching frequency2000 1/hoperating frequency at AC-1 maximum000 1/hcod cod switching frequencyAC/DCControl Generating frequency at AC-1 maximum380 420 Vcontrol supply voltage at AC380 420 Vcontrol supply voltage at A	— up to 690 V at ambient temperature 40 °C rated	275 A
	— up to 690 V at ambient temperature 55 °C rated	250 A
- al 400 V rated value97 A- al 680 V rated value97 A- al 680 V rated value97 A97 A97 A- al 680 V rated value97 A- al 680 V rated value97 A- al 680 V rated value2000 I/h- al DC2000 I/h- al DC800 I/h- al DC800 I/h- al DC800 I/h- al CDCACIDCControl supply voltage at ACACIDC- ype of voltage of the control supply voltageACIDC- al 60 Hz rated value380420 V- al 61 Al rated value0.8- al 61 Al rated value0.9- al 61 Al rated value<		250 A
−at 880 V rated value         97 Å           minimu cross-section in main circuit at maximum AC-1 rated value         140 mm <sup>4</sup> no-lead switching frequency         2 000 1/h           • at AC         2 000 1/h           operating frequency at AC-1 maximum         600 1/h           operating frequency at AC-1 maximum         600 1/h           operating frequency at AC-1 maximum         AC/DC           Control steady Voltage of the control supply voltage AC         Control steady Voltage AC           ext 50 Hz rated value         380420 V           • at 60 Hz rated value         380420 V           • at 60 Hz rated value         380420 V           • at 60 Hz rated value         0.8           • at 60 Hz rated value         0.8           • at 60 Hz rated value         0.8           • at 60 Hz         0.9           • at 60 Hz         0.9     <	• at AC-3	
minum cross section in main circuit at maximum AC-1 rated value         140 mm²           notada switching frequency et AC         2 000 1/h           et AC         2 000 1/h           et AC         2 000 1/h           operating frequency at AC-1 maximum         600 1/h           Control circuit Control         400 mm²           Control circuit Control         AC/DC           Control circuit Control supply voltage         AC/DC           Control supply voltage at AC         380 420 V           e at 50 Hz rated value         380 420 V           control supply voltage at AC         380 420 V           e at 60 Hz rated value         380 420 V           e at 60 Hz rated value         380 420 V           e at 60 Hz rated value         380 420 V           e at 60 Hz rated value         380 420 V           e at 60 Hz rated value         0.8           e at 60 Hz         0.8           e at 50 Hz         0.9           apparent hicking power of magnet co	— at 400 V rated value	97 A
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• at AC2 000 1/h• at DC2 000 1/hControl circuit/ Control2 000 1/hControl circuit/ Control000 1/hControl circuit/ ControlACDCcontrol supply voltage at AC380 420 V• at 50 1/z rated value380 420 V• at 60 1/z rated value0.8• at 61 1/z0.8• at 61 1/z0.8• at 61 1/z0.8• at 61 1/z0.8• at 50 1/z0.8• at 50 1/z0.8• at 50 1/z0.8• at 50 1/z0.9• at 50 1/z0.8• at 50 1/z0.8• at 50 1/z0.8• at 50 1/z0.8• at 50 1/z0.9• at 50 1/z0.8• at 50 1/z0.8		140 mm²
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operating frequency at AC-1 maximum         600 1/h           Control ofucult Control         Vipe of voltage of the control supply voltage         AC/DC           type of voltage of the control supply voltage at AC         AC/DC           e at 60 Hz rated value         380 420 V           e at 60 Hz rated value         380 420 V           control supply voltage at DC         380 420 V           e rated value         380 420 V           operating range factor control supply voltage rated value of magnet coll at DC         0.8           operating range factor control supply voltage rated value of magnet coll at AC         0.8           e at 50 Hz         0.8           e at 50 Hz         0.8           opticting range factor control supply voltage rated value of magnet coll at AC         0.8           e at 50 Hz         0.8           e at 50 Hz         0.8           apparent pick-up power of magnet coll at AC         0.9           e at 50 Hz         0.9           apparent holding power of magnet coll at AC         0.9           e at 50 Hz         0.8           inductive power factor with the holding power of the coll         0.9           e at 50 Hz         0.8           i at 0C         0.9           apparent holding power of magnet coll at AC <td>• at AC</td> <td>2 000 1/h</td>	• at AC	2 000 1/h
Control circuit Control       AC/DC         type of voltage       AC/DC         type of voltage of the control supply voltage       AC/DC         • at 50 Hz rated value       380 420 V         • at 60 Hz rated value       380 420 V         • at 60 Hz rated value       380 420 V         • at 60 Hz rated value       380 420 V         • at 60 Hz rated value       380 420 V         operating range factor control supply voltage rated value of magnet coll at DC       11         operating range factor control supply voltage rated value of magnet coll at AC       0.8         • at 50 Hz       0.8       1.1         operating range factor control supply voltage rated value of magnet coll at AC       0.8       1.1         operating range factor control supply voltage rated value of magnet coll at AC       0.8       1.1         operating range factor control supply voltage rated value of magnet coll at AC       0.8       1.1         ob Hz       0.8       1.1       0.8       1.1         design of the surge suppressor       with varistor       300 VA       1.1         inductive power factor with closing power of the coll       0.9       9       9         • at 50 Hz       0.8       20	• at DC	2 000 1/h
type of voltage         AC/DC           type of voltage of the control supply voltage         AC/DC           control supply voltage at AC         380420 V           • at 50 Hz rated value         380420 V           • at 60 Hz rated value         380420 V           control supply voltage at DC	operating frequency at AC-1 maximum	600 1/h
AC/DC           control supply voltage at AC         at 50 Hz rated value         380 420 V           • at 50 Hz rated value         380 420 V           • at 60 Hz rated value         380 420 V           • at 60 Hz rated value         380 420 V           • at 60 Hz rated value         380 420 V           • at 60 Hz rated value         0.8           • rated value         0.8           • initial value         0.8           • initial value         0.8           • at 60 Hz         0.8 11           operating range factor control supply voltage rated value of magnet coil at AC         0.8 11           • at 50 Hz         0.8 11           • at 60 Hz         0.8 11           • at 60 Hz         0.8 11           • at 50 Hz         0.8 11           • at 50 Hz         0.8 11           • at 50 Hz         0.9           apparent pick-up power of magnet coil at AC         0.9           • at 50 Hz         0.8           inductive power factor with closing power of the coil         0.8           • at 50 Hz         0.8           inductive power of magnet coil at AC         0.9           • at 50 Hz         0.8           • at 50 Hz	Control circuit/ Control	
Control supply voltage at AC       380420 V         • at 50 Hz rated value       380420 V         • at 60 Hz rated value       380420 V         control supply voltage at DC       380420 V         • rated value       380420 V         operating range factor control supply voltage rated value of magnet coil at DC       0.8         • initial value       0.8         • full-scale value       0.8         • full-scale value       0.8         • at 50 Hz       0.8         • at 60 Hz       0.8         • at 50 Hz       0.9         • at 50 Hz       0.8         • at 50 Hz       0.8         • at 50 Hz       0.9         • at 50 Hz       0.9         • at 50 Hz       0.8         closing power of magnet coil at AC       5.8 VA         inductive power factor with the holding power of the coil       0.8         • at 50 Hz       0.8         closing power of magn	type of voltage	AC/DC
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control supply voltage at DC     380 420 V       operating range factor control supply voltage rated value of magnet coil at DC     0.8       • initial value     0.8       • full-scale value     0.8       • at 50 Hz     1.1       • at 50 Hz     0.8 1.1       • at 50 Hz     0.9       • at 50 Hz     0.8 0.1       • at 50 Hz     0.9       • at 50 Hz     0.9       • at 50 Hz     0.8       • at 60 Hz     0.8       • at 60 Hz     0.9	• at 50 Hz rated value	380 420 V
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• at DC20 95 msopening delay-• at AC40 60 ms• at DC40 60 ms• at DC10 15 mscontrol version of the switch operating mechanismStandard A1 - A2Auxiliary circuit2number of NC contacts for auxiliary contacts2• attachable4• instantaneous contact2number of NO contacts for auxiliary contacts2• attachable4• instantaneous contact2• auxiliary contacts2• auxiliary contacts for auxiliary contacts2• attachable4• attachable2• attachable2<		
opening delay• at AC40 60 ms• at DC40 60 msarcing time10 15 mscontrol version of the switch operating mechanismStandard A1 - A2Auxiliary circuit2number of NC contacts for auxiliary contacts2• attachable4• instantaneous contact2number of NO contacts for auxiliary contacts222• instantaneous contact2• unber of NO contacts for auxiliary contacts2• auxiliary contacts2		
• at AC40 60 ms• at DC40 60 msarcing time10 15 mscontrol version of the switch operating mechanismStandard A1 - A2Auxiliary circuit2number of NC contacts for auxiliary contacts2• attachable4• instantaneous contact2number of NO contacts for auxiliary contacts222• attachable4• instantaneous contact222• auxiliary contacts2• attachable4• instantaneous contact2• auxiliary contacts for auxiliary contacts2		20 95 ms
• at DC40 60 msarcing time10 15 mscontrol version of the switch operating mechanismStandard A1 - A2Auxiliary circuit2number of NC contacts for auxiliary contacts2• attachable4• instantaneous contact2number of NO contacts for auxiliary contacts223• attachable4• instantaneous contact2• auxiliary contacts for auxiliary contacts2• attachable2• attachable2• attachable2• attachable2• attachable2• attachable2• attachable2		
arcing time     10 15 ms       control version of the switch operating mechanism     Standard A1 - A2       Auxiliary circuit     2       number of NC contacts for auxiliary contacts     2       • attachable     4       • instantaneous contact     2       number of NO contacts for auxiliary contacts     2       2     2		
control version of the switch operating mechanism       Standard A1 - A2         Auxiliary circuit       2         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         • number of NO contacts for auxiliary contacts       2	• at DC	
Auxiliary circuit         number of NC contacts for auxiliary contacts       2         • attachable       4         • instantaneous contact       2         number of NO contacts for auxiliary contacts       2	-	
number of NC contacts for auxiliary contacts       2         • attachable       4         • instantaneous contact       2         number of NO contacts for auxiliary contacts       2	· · · ·	Standard A1 - A2
• attachable     4       • instantaneous contact     2       number of NO contacts for auxiliary contacts     2		
• instantaneous contact     2       number of NO contacts for auxiliary contacts     2	number of NC contacts for auxiliary contacts	2
number of NO contacts for auxiliary contacts 2	attachable	4
	<ul> <li>instantaneous contact</li> </ul>	2
attachable     4	number of NO contacts for auxiliary contacts	2
	attachable	4
• instantaneous contact 2	<ul> <li>instantaneous contact</li> </ul>	2

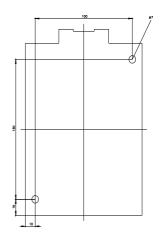
operational current at AC-12 maximum	10 A			
operational current at AC-15				
• at 230 V rated value	6 A			
• at 400 V rated value	3 A			
• at 500 V rated value	2 A			
• at 690 V rated value	1 A			
operational current at DC-13				
<ul> <li>at 24 V rated value</li> </ul>	10 A			
<ul> <li>at 48 V rated value</li> </ul>	2 A			
• at 60 V rated value	2 A			
• at 110 V rated value	1 A			
<ul> <li>at 125 V rated value</li> </ul>	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 faulty switching per 100 million (17 V, 1 mA)			
contact reliability of auxiliary contacts	Tradity switching per 100 million (17 V, T mA)			
Short-circuit protection	No			
product function short circuit protection	No			
design of the fuse link				
for short-circuit protection of the main circuit     with two of coordination 1 required	2C: 2EE A (600.) ( 100.1/A)			
<ul> <li>with type of coordination 1 required</li> <li>with type of coordination 2 required</li> </ul>	gG: 355 A (690 V, 100 kA)			
<ul> <li>— with type of assignment 2 required</li> <li>a for abort circuit protection of the quiviliant quitab required</li> </ul>	gR: 350 A (690 V, 100 kA)			
• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)			
Installation/ mounting/ dimensions				
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	172 mm			
width	120 mm			
depth	170 mm			
required spacing				
with side-by-side mounting				
— forwards	20 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	0 mm			
<ul> <li>for grounded parts</li> </ul>				
— 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>	screw-type terminals			
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals			
<ul> <li>of magnet coil</li> </ul>	Screw-type terminals			
width of connection bar	17 mm			
thickness of connection bar	3 mm			
diameter of holes	9 mm			
number of holes	1			
connectable conductor cross-section for main contacts				
solid or stranded	25 120 mm²			
stranded	25 120 mm²			

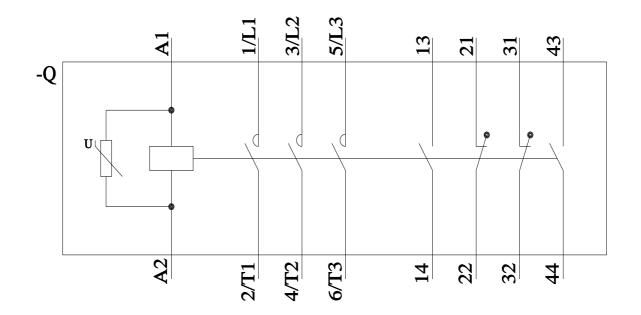
connectable conduc	ctor cross-section for auxi	liary contacts				
<ul> <li>solid or strande</li> </ul>			0.5 4 mm <sup>2</sup>			
finely stranded with core end processing			0.5 2.5 mm²			
type of connectable	conductor cross-sections					
<ul> <li>for auxiliary co</li> </ul>	ntacts					
— solid		2x (0	).5 1.5 mm²), 2x (0.75 .	2.5 mm²), max. 2x (0.75	4 mm²)	
- solid or s	tranded	2x (0	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)			
— finely stra	anded with core end process	ing 2x (0	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
<ul> <li>for AWG cable</li> </ul>	s for auxiliary contacts	2x (2	2x (20 16), 2x (18 14), 1x 12			
afety related data						
product function						
<ul> <li>mirror contact</li> </ul>	according to IEC 60947-4-1	Yes				
<ul> <li>positively drive</li> </ul>	n operation according to IEC	C 60947-5-1 No	No			
protection class IP	on the front according to I	EC 60529 IP00	IP00; IP20 with box terminal/cover			
touch protection on	the front according to IEC	60529 finge	finger-safe, for vertical contact from the front with box terminal/cover			
ertificates/ approval	s					
General Product Ap	oproval					
(Sp)	<u>Confirmation</u>			KC	EHC	
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Confo	rmity	Test Certificates		
RCM	Type Examination Cer- tificate	CE EG-Konf.	UK CA	Type Test Certific- ates/Test Report	Special Test Certific- ate	
Marine / Shipping					other	
			-	-745.	Confirmation	
1 4 4 4 F	Lloyd's	(33)		And and a second s	Commation	
a second	Register			DNV-GL		
ABS	LRS	PRS	RMRS	PANEL COMPA		
other		Railway				
<u>Miscellaneous</u>	<u>Confirmation</u>	<u>Special Test Certific-</u> <u>ate</u>	Vibration and Shock			
urther information		(and kara)				
	ed to exit the Russian mark s.com/global/en/pressrelease		sian-business			
Siemens is working	on the renewal of the curr	ent 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						
https://support.industry.siemens.com/cs/ww/en/view/109813875						
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=3RT1456-6AV36						
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1456-6AV36						
Service&Support (Manuals, Certificates, Characteristics, FAQs,)						
https://support.indust	ry.siemens.com/cs/ww/en/ps	3RT1456-6AV36				
http://www.automatio	oduct images, 2D dimensions n.siemens.com/bilddb/cax_com/bilddb/cax	le.aspx?mlfb=3RT1456-6		ns, EPLAN macros,)		

https://support.industry.siemens.com/cs/ww/en/ps/3RT1456-6AV36/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1456-6AV36&objecttype=14&gridview=view1









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