SIEMENS

Data sheet 3RT1466-6AV36



power contactor AC-1 400 A / 690 V / 40 $^{\circ}$ 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 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 NC contacts for main contacts 0 type of voltage for main current circuit AC et al. AC-1 40 b 500 V at ambient temperature 40 °C rated value 400 A - up to 500 V at ambient temperature 50 °C rated value 300 A - up to 500 V at ambient temperature 60 °C rated value 300 A - up to 500 V at ambient temperature 60 °C rated value 300 A - up to 500 V at ambient temperature 60 °C rated value 338 A - up to 500 V at ambient temperature 60 °C rated value 338 A - up to 500 V at ambient temperature 60 °C rated value 338 A - up to 500 V at ambient temperature 60 °C rated value 338 A - up to 500 V at ambient temperature 60 °C rated value 338 A - up to 500 V at ambient temperature 60 °C rated value 340 A - up to 500 V at ambient temperature 60 °C rated value 340 A - up to 500 V at ambient temperature 60 °C rated value 340 M - up to 500 V at ambient temperature 60 °C rated value 340 M - up to 500 V at ambient temperature 60 °C rated value 400 °C - up to 500 V at ambient temperature 60 °C rated value 400 °C - up to 500 V at ambient temperature 60 °C rated value 360 ~ 420 °C		
Special content Special co		
operational current		0
* at AC-1 ** any to 1990 V at ambient temperature 40 °C rated value ** up to 1990 V at ambient temperature 50 °C rated value ** up to 1990 V at ambient temperature 60 °C rated value ** at AC-3 ** at AC-3 ** at AC-1	type of voltage for main current circuit	AC
	operational current	
walue walu	• at AC-1	
A value A va	·	400 A
value valu		380 A
— at 400 V rated value 138 A minimum cross-section in main crout at maximum AC-1 rated value 240 mm² minimum cross-section in main crout at maximum AC-1 rated value 2000 1/h → at AC 2000 1/h → at DC 2000 1/h Operating frequency at AC-1 maximum 800 1/h Outrol Circhill Control Very of Voltage of the control supply voltage Vipe of Voltage of the control supply voltage AC/DC • at 50 Hz rated value 380 420 V • at 50 Hz rated value 380 420 V • at 60 Hz rated value 380 420 V • are devalue 0.8 • infliat value 0.8 • full -scale value 0.8 • at 50 Hz 0.8 1.1 • at 50 Hz 0.8 1.1 • at 50 Hz 0.8 1.1 • at 50 Hz 0.9 1.1 • at 90 Hz 400 VA • at maximum rated control supply voltage at AC 590 VA • at 50		380 A
	• at AC-3	
Indimum cross-section in main circuit at maximum AC-1 rated without provided withching frequency at AC 2 000 1th	— at 400 V rated value	138 A
Indianam rose-section in main circuit at maximum AC-1 railed value 240 mm² 240 m	— at 690 V rated value	138 A
* at IAC		240 mm²
* at IAC	no-load switching frequency	
		2 000 1/h
Operating frequency at AC-1 maximum 600 1/h		2 000 1/h
Control circuit/ Control Comment type of voltage of the control supply voltage AC/DC control supply voltage at AC at 50 Hz rated value 380 420 V e at 50 Hz rated value 380 420 V control supply voltage at DC at 60 Hz rated value 380 420 V correcting range factor control supply voltage rated value of magnet coil at DC at 50 Hz at 50 Hz e initial value 0.8 4.1 0.8 4.1 e initial value 0.8 4.1 0.8		
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• at 50 Hz rated value • at 60 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • initial value • at 60 Hz	,	AOIDO
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inductive power factor with the holding power of the coil		6.7 VA
		5.7 T.T.
■ at 50 HZ		0.0
	at 50 m²	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
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 at 690 V rated value	1A
operational current at DC-13	
at 24 V rated value	10 A
at 48 V rated value at 48 V rated value	2 A
at 46 V rated value at 60 V rated value	2 A
at 110 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 applicant author required.	0.1 A gG: 10 A (230 V, 400 A)
of the auxiliary switch required contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
Short-circuit protection	Tradity Switching per 100 million (17 V, 1 mA)
product function short circuit protection	No
·	No
design of the fuse link	
for short-circuit protection of the main circuit	Q 500 A (000 V 400 I A)
— 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)
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	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	
— downwards	

— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side Connections/ Terminals	10 mm
type of electrical connection	0
• 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
number of holes	1
connectable conductor cross-section for main contacts	
 solid or stranded 	70 240 mm²
stranded	70 240 mm²
connectable conductor cross-section for auxiliary contacts	
 solid or stranded 	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14), 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 on the front according to IEC 60529	IP00; IP20 with box terminal/cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover
Certificates/ approvals	

General Product Approval

EMC





Confirmation







Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping







Confirmation

other

Miscellaneous

other

Railway

Confirmation

Vibration and Shock

Special Test Certificate

Further information

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

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=3RT1466-6AV36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1466-6AV36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1466-6AV36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

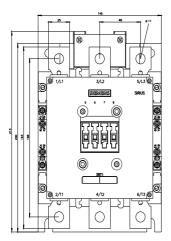
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1466-6AV36&lang=en

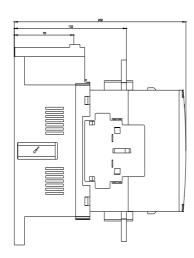
Characteristic: Tripping characteristics, I2t, Let-through current

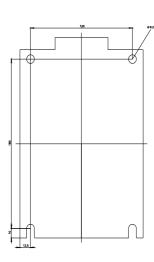
https://support.industry.siemens.com/cs/ww/en/ps/3RT1466-6AV36/char

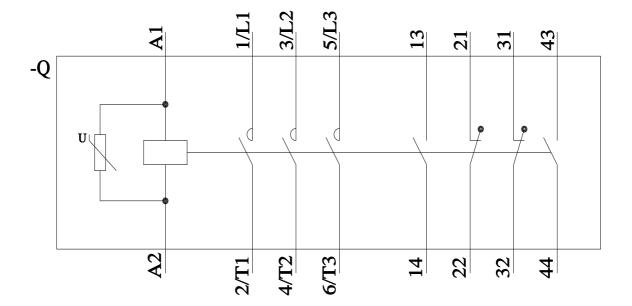
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1466-6AV36&objecttype=14&gridview=view1









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