SIEMENS

Data sheet 3RT2448-1NF30



contactor AC-1, 160 A, 690 V / 40 °C, 3-pole, 83-155 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, main circuit: box terminal, control and auxiliary circuit: screw terminal size: S3

product brand name	SIRIUS
product designation	Contactor
product type designation	3RT24
General technical data	
size of contactor	S3
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 	38.4 W
 at AC in hot operating state per pole 	12.8 W
without load current share typical	1.8 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	690 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	10.3g / 5 ms, 6,.g / 10 ms
• at DC	6.7 g / 5 ms, 4g / 10 ms
shock resistance with sine pulse	
• at AC	16.3g / 5 ms, 10.g / 10 ms
• at DC	10.6 g / 5 ms, 6.3 g / 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)	04/28/2017
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	160 A
— up to 690 V at ambient temperature 55 °C rated value	140 A
— up to 690 V at ambient temperature 60 °C rated value	140 A
— up to 1000 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	80 A
 up to 1000 V at ambient temperature 60 °C rated value at AC-3 	80 A
— at 400 V rated value	44 A
— at 690 V rated value	44 A
minimum cross-section in main circuit at maximum AC-1 rated	70 mm ²
value	70 111111
no-load switching frequency	
• at AC	1 000 1/h
• at DC	1 000 1/h
operating frequency at AC-1 maximum	650 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	83 155 V
at 60 Hz rated value	83 155 V
control supply voltage at DC	
• rated value	83 155 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
inrush current peak	1.5 A
duration of inrush current peak	50 µs
locked-rotor current mean value	1.1 A
locked-rotor current peak	2.7 A
duration of locked-rotor current	150 ms
holding current mean value	15 mA
apparent pick-up power of magnet coil at AC	
● at 50 Hz	202 VA
• at 60 Hz	202 VA
apparent holding power of magnet coil at AC	
● at 50 Hz	3.5 VA
• at 60 Hz	3.5 VA
closing power of magnet coil at DC	76 W
holding power of magnet coil at DC	2.7 W
closing delay	
• at AC	50 70 ms
• at DC	50 70 ms
ononing dolay	
opening delay	
• at AC	38 57 ms
	38 57 ms 38 57 ms
• at AC	

Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
attachable	2
instantaneous contact	1
number of NO contacts for auxiliary contacts	1
attachable	2
instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	107
at 230 V rated value	6 A
at 400 V rated value	3 A
at 500 V rated value at 500 V rated value	2 A
at 690 V rated value at 690 V rated value	1A
operational current at DC-13	14
• at 24 V rated value	10 A
at 48 V rated value at 48 V rated value	2 A
at 60 V rated value at 110 V rated value	2 A
at 110 V rated value at 125 V rated value	1 A
at 125 V rated value at 220 V rated value	0.9 A
at 220 V rated value at 600 V rated value	0.3 A
at 600 V rated value delign of the principle of control of the principle of the princ	0.1 A
design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required	gG: 10 A (230 V, 400 A)
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
Short-circuit protection	
product function short circuit protection	No
design of the fuse link	
 for short-circuit protection of the main circuit 	
 — with type of coordination 1 required 	gG: 250 A (690 V,100 kA)
 — with type of assignment 2 required 	gR: 250 A (690 V, 100 kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
	go. 1077 (000 V, 1107)
Installation/ mounting/ dimensions	gc. 1071(000 V, 1101)
	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
Installation/ mounting/ dimensions	+/-180° rotation possible on vertical mounting surface; can be tilted forward and
Installation/ mounting/ dimensions mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
Installation/ mounting/ dimensions mounting position fastening method	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes
Installation/ mounting/ dimensions mounting position fastening method	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 140 mm
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• stranded 2x (2,5 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²) • solid or stranded 2x (2.5 16 mm²), 2x (10 50 mm²), 1x (10 70 mm²) • finely stranded with core end processing 2x (2.5 35 mm²), 1x (2.5 50 mm²) connectable conductor cross-section for main contacts • solid 2.5 16 mm² • solid or stranded 4 70 mm² • stranded 6 70 mm² • finely stranded with core end processing 2.5 50 mm² connectable conductor cross-section for auxiliary contacts • solid or stranded • 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) - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 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) afety related data product function • mirror contact according to IEC 60947-6-1 Yes • positively driven operation according to IEC 60947-5-1 No proportion of dangerous failures • with low demand rate according to SN 31920 40 %	type of connectable conductor cross-sections for main contacts	
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solid solid or stranded solid or stranded or stranded solid or stranded or stranded solid or strande	finely stranded with core end processing	2x (2.5 35 mm²), 1x (2.5 50 mm²)
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 ◆ finely stranded with core end processing connectable conductor cross-section for auxiliary contacts ◆ solid or stranded ◆ finely stranded with core end processing type of connectable conductor cross-sections ◆ for auxiliary contacts — solid — solid or stranded — solid or stranded — solid or stranded with core end processing — finely stranded with core end processing — for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) — for AWG cables for auxiliary contacts 2x (20 1.5 mm²), 2x (0.75 2.5 mm²) x (20 1.5 mm²), 2x (0.75 2	 solid or stranded 	4 70 mm²
connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid - solid or stranded - solid or stranded - solid or stranded - finely stranded with core end processing - finely stranded with core end processing - for AWG cables for auxiliary contacts of to auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 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) cafety related data product function - mirror contact according to IEC 60947-4-1 - positively driven operation according to IEC 60947-5-1 No proportion of dangerous failures - with low demand rate according to SN 31920 40 %	• stranded	6 70 mm²
 solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing — finely stranded with core end processing — for AWG cables for auxiliary contacts product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 No proportion of dangerous failures with low demand rate according to SN 31920 40 % 	 finely stranded with core end processing 	2.5 50 mm²
finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts	connectable conductor cross-section for auxiliary contacts	
• for auxiliary contacts	 solid or stranded 	0.5 2.5 mm²
 for auxiliary contacts solid solid or stranded finely stranded with core end processing for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14) Forduct function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 Proportion of dangerous failures with low demand rate according to SN 31920 40 % 	 finely stranded with core end processing 	0.5 2.5 mm²
- solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 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) **safety related data** product function • mirror contact according to IEC 60947-4-1 Yes • positively driven operation according to IEC 60947-5-1 No proportion of dangerous failures • with low demand rate according to SN 31920 40 %	type of connectable conductor cross-sections	
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for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14) product function	— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
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product function	 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14)
 mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 proportion of dangerous failures with low demand rate according to SN 31920 40 % 	Safety related data	
positively driven operation according to IEC 60947-5-1 proportion of dangerous failures with low demand rate according to SN 31920 40 %	product function	
proportion of dangerous failures ● with low demand rate according to SN 31920 40 %	 mirror contact according to IEC 60947-4-1 	Yes
• with low demand rate according to SN 31920 40 %	 positively driven operation according to IEC 60947-5-1 	No
	proportion of dangerous failures	
	 with low demand rate according to SN 31920 	40 %
• with high demand rate according to SN 31920 73 %	 with high demand rate according to SN 31920 	73 %
T1 value for proof test interval or service life according to IEC 61508 20 a		20 a
protection class IP on the front according to IEC 60529 IP20	protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Sertificates/ approvals		

General Product Approval



Confirmation





<u>KC</u>



Functional
Safety/Safety of Machinery

Declaration of Conformity
Test Certificates



Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













other Railway Dangerous Good

<u>Confirmation</u> <u>Vibration and Shock</u> <u>Transport Information</u>

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=3RT2448-1NF30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2448-1NF30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2448-1NF30

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

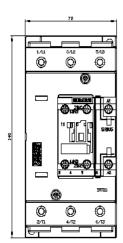
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2448-1NF30&lang=en

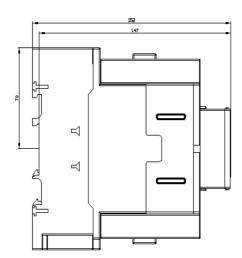
Characteristic: Tripping characteristics, I²t, Let-through current

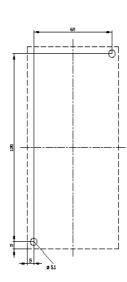
https://support.industry.siemens.com/cs/ww/en/ps/3RT2448-1NF30/char

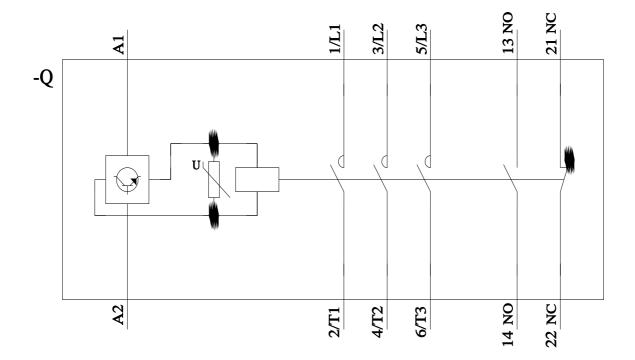
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2448-1NF30&objecttype=14&gridview=view1









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