# SIEMENS

#### Data sheet

### 3RT2446-1NF30



contactor AC-1, 140 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	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	29.4 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	9.8 W
<ul> <li>without load current share typical</li> </ul>	1.8 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	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)	
<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
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	
<ul> <li>during operation</li> </ul>	-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	
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	140 A
— up to 690 V at ambient temperature 55 °C rated value	130 A
— up to 690 V at ambient temperature 60 °C rated value	130 A
— up to 1000 V at ambient temperature 40 °C rated value	60 A
— up to 1000 V at ambient temperature 60 °C rated value	60 A
• at AC-3	
— 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 value	50 mm²
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	00 100 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
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	1.8 W
closing delay	
• at AC	50 70 ms
● at DC	50 70 ms
opening delay	
• at AC	38 57 ms
• at DC	38 57 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
the state of the state of the sportating moonumon	

Auxiliary circuit	
	1
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	
<ul> <li>at 230 V rated value</li> </ul>	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
<ul> <li>at 110 V rated value</li> </ul>	1 A
• at 125 V rated value	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 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	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>with type of coordination 1 required</li> </ul>	gG: 250 A (690 V,100 kA)
— with type of assignment 2 required	gR: 250 A (690 V, 100 kA)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)
· · · ·	
Installation/ mounting/ dimensions	
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 • side-by-side mounting height	+/-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
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width	+/-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 70 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth	+/-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
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing	+/-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 70 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with 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 140 mm 70 mm 152 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards	<ul> <li>+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>Yes</li> <li>140 mm</li> <li>70 mm</li> <li>152 mm</li> <li>20 mm</li> </ul>
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards	<ul> <li>+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>Yes</li> <li>140 mm</li> <li>70 mm</li> <li>152 mm</li> <li>20 mm</li> <li>10 mm</li> </ul>
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	<ul> <li>+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>Yes</li> <li>140 mm</li> <li>70 mm</li> <li>152 mm</li> <li>20 mm</li> <li>10 mm</li> <li>10 mm</li> </ul>
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side	<ul> <li>+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>Yes</li> <li>140 mm</li> <li>70 mm</li> <li>152 mm</li> <li>20 mm</li> <li>10 mm</li> </ul>
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Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts	<ul> <li>+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>Yes</li> <li>140 mm</li> <li>70 mm</li> <li>152 mm</li> <li>20 mm</li> <li>10 mm</li> <li>0 mm</li> <li>0 mm</li> </ul>
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards	<ul> <li>+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>Yes</li> <li>140 mm</li> <li>70 mm</li> <li>152 mm</li> <li>20 mm</li> <li>10 mm</li> <li>0 mm</li> <li>20 mm</li> </ul>
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — a the side	<ul> <li>+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>Yes</li> <li>140 mm</li> <li>70 mm</li> <li>152 mm</li> <li>20 mm</li> <li>10 mm</li> <li>0 mm</li> <li>20 mm</li> <li>10 mm</li> <li>0 mm</li> </ul>
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • at the side	<ul> <li>+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>Yes</li> <li>140 mm</li> <li>70 mm</li> <li>152 mm</li> <li>20 mm</li> <li>10 mm</li> <li>0 mm</li> <li>20 mm</li> <li>10 mm</li> </ul>
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — at the side • downwards — at the side — downwards — at the side — downwards — at the side — downwards	<ul> <li>+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>Yes</li> <li>140 mm</li> <li>70 mm</li> <li>152 mm</li> <li>20 mm</li> <li>10 mm</li> <li>0 mm</li> <li>20 mm</li> <li>10 mm</li> </ul>
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — odownwards — at the side — odownwards — at the side — odownwards — at the side — odownwards — of live parts	<ul> <li>+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>Yes</li> <li>140 mm</li> <li>70 mm</li> <li>152 mm</li> <li>20 mm</li> <li>10 mm</li> <li>0 mm</li> <li>20 mm</li> <li>10 mm</li> </ul>
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Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — at the side • for grounded parts — forwards — at the side — downwards • at the side — downwards • for live parts — forwards — upwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards — at the side — downwards — of rive parts — forwards — upwards — at the side — downwards — of orwards — of ormain current circuit	<ul> <li>+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>Yes</li> <li>140 mm</li> <li>70 mm</li> <li>152 mm</li> <li>20 mm</li> <li>10 mm</li> <li>0 mm</li> <li>0 mm</li> <li>10 mm</li> <li></li></ul>
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — at the side • for grounded parts — forwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side — downwards — at the side <b>Connections/ Terminals</b> type of electrical connection • for auxiliary and control circuit	<ul> <li>+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>Yes</li> <li>140 mm</li> <li>70 mm</li> <li>152 mm</li> <li>20 mm</li> <li>10 mm</li> <li>0 mm</li> <li>0 mm</li> <li>10 mm</li> <li></li></ul>
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type of connectable connectabl	and unter areas as ations for				
	onductor cross-sections for	main contacts			
• solid			2x (2.5 16 mm <sup>2</sup> )		
<ul> <li>stranded</li> </ul>			2x (2,5 16 mm²), 2x (10 §		
<ul> <li>solid or strande</li> </ul>			2x (2.5 16 mm²), 2x (10 §		
	with core end processing		2x (2.5 35 mm²), 1x (2.5	50 mm²)	
	tor cross-section for main	n contacts			
• solid			2.5 16 mm <sup>2</sup>		
<ul> <li>solid or strande</li> </ul>	ed		4 70 mm <sup>2</sup>		
stranded			6 70 mm <sup>2</sup>		
•	with core end processing		2.5 50 mm <sup>2</sup>		
	tor cross-section for auxi	liary contacts	0.5 0.5		
<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul>		0.5 2.5 mm <sup>2</sup>			
•			0.5 2.5 mm²		
	conductor cross-sections	5			
<ul> <li>for auxiliary cor</li> </ul>	illacis		$2x (0.5 - 1.5 \text{ mm}^2) 2x (0.75)$	$2.5 \text{ mm}^2$	
	— solid — solid or stranded		2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 . 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 .	,	
		ing		·	
-	nded with core end process s for auxiliary contacts	mig	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 . 2x (20 16), 2x (18 14)	2.5 mm )	
Safety related data			2x (20 10), 2x (10 14)		
product function	according to IEC 60947-4-1		Yes		
	n operation according to IEC	C 60047 5 1	No		
proportion of dange		5 00947-5-1	NO		
	nd rate according to SN 319	20	40 %		
	and rate according to SN 319		73 %		
T1 value for proof test	t interval or service life acco		20 a		
61508	on the front according to I	EC 60529	IP20		
-	the front according to IEC		finger-safe, for vertical contac	t from the front	
Certificates/ approvals	-	, 00529	inger-sale, for vertical contac		
General Product Ap					
SP.	<u>Confirmation</u>			<u>KC</u>	EHC
SP.		œ	<b>U</b> L	<u>KC</u>	EAC
EMC	Confirmation Functional Safety/Safety of Ma- chinery	CCC	Conformity	KC Test Certificates	EHC
EMC RCM	Functional Safety/Safety of Ma-	Declaration of UK	·		<b>Effect</b> Type Test Certific- ates/Test Report
EMC EMC RCM	Functional Safety/Safety of Ma- chinery Type Examination Cer-		CE	Test Certificates	
RCM	Functional Safety/Safety of Ma- chinery Type Examination Cer-		CE	Test Certificates	
RCM	Functional Safety/Safety of Ma- chinery Type Examination Cer-		EG-Konf.	Test Certificates	
Marine / Shipping	Functional Safety/Safety of Ma- chinery Type Examination Cer- tificate		EG-Konf.	Test Certificates	

#### 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=3RT2446-1NF30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2446-1NF30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2446-1NF30

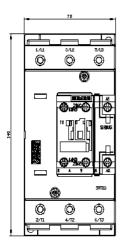
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

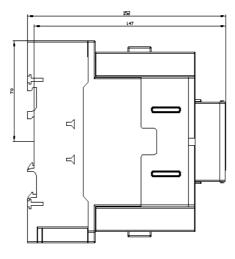
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2446-1NF30&lang=en

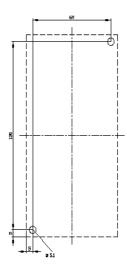
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

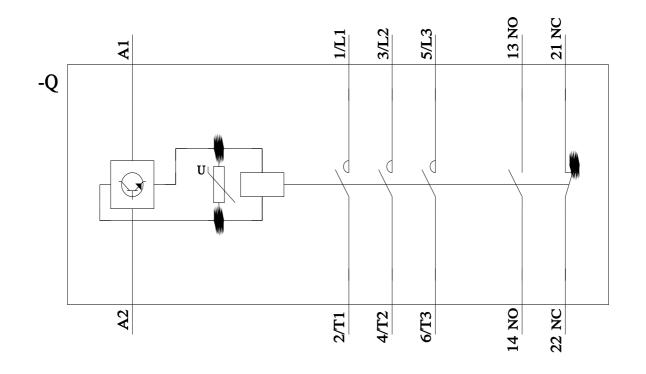
https://support.industry.siemens.com/cs/ww/en/ps/3RT2446-1NF30/char Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2446-1NF30&objecttype=14&gridview=view1









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