



contactor AC-1, 140 A, 690 V / 40 °C, 3-pole, 20-33 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, main circuit: without box terminal, control and auxiliary circuit: screw terminal, size: S3

General technical data	
size of contactor	S3
Substance Prohibition (Date)	06/12/2019
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 Melamine - 108-78-1
Weight	1.815 kg
Main circuit	
operating voltage	
• at AC-3e rated value maximum	1 000 V
operational current	
• at AC-3	
— at 400 V rated value	95 A
— at 500 V rated value	95 A
— at 690 V rated value	78 A
— at 1000 V rated value	30 A
• at AC-3e	
— at 400 V rated value	95 A
— at 500 V rated value	95 A
— at 690 V rated value	78 A
— at 1000 V rated value	30 A
operational current	
• at 1 current path at DC-1	
— at 60 V rated value	80 A
• with 2 current paths in series at DC-1	
— at 60 V rated value	130 A
• with 3 current paths in series at DC-1	
— at 60 V rated value	130 A
operating power	
• at AC-3	
— at 230 V rated value	22 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW
— at 1000 V rated value	37 kW
• at AC-3e	
— at 230 V rated value	22 kW
— at 400 V rated value	45 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW

— at 1000 V rated value	37 kW
<b>operating frequency</b>	
• at AC-3 maximum	850 1/h
• at AC-3e	
— maximum	850 1/h

Control circuit/ Control	
<b>inrush current peak</b>	6.5 A
<b>duration of inrush current peak</b>	50 µs
<b>locked-rotor current mean value</b>	3.2 A
<b>locked-rotor current peak</b>	6.5 A
<b>duration of locked-rotor current</b>	150 ms
<b>holding current mean value</b>	75 mA
<b>control version of the switch operating mechanism</b>	Standard A1 - A2

Short-circuit protection	
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA

Safety related data	
suitability for use safety-related switching OFF	applies only to contactor operating mechanism
Electrical Safety	
<b>protection class IP on the front according to IEC 60529</b>	IP00; IP20 with box terminal/cover
<b>touch protection on the front according to IEC 60529</b>	finger-safe, for vertical contact from the front with box terminal/cover

### Approvals Certificates





**General Product Approval**





KC


EMV	Test Certificates		Maritime application		
	<a href="#">Type Test Certificates/Test Report</a>	<a href="#">Special Test Certificate</a>			

Maritime application	other		Railway
			<a href="#">Confirmation</a>  <a href="#">Special Test Certificate</a>

**Environment**

[Environmental Conformations](#)

**Further information**

Information on the packaging  
<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage  
<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3RT2446-6NB30>

Cax online generator  
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2446-6NB30>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)  
<https://support.industry.siemens.com/cs/ww/en/ps/3RT2446-6NB30>

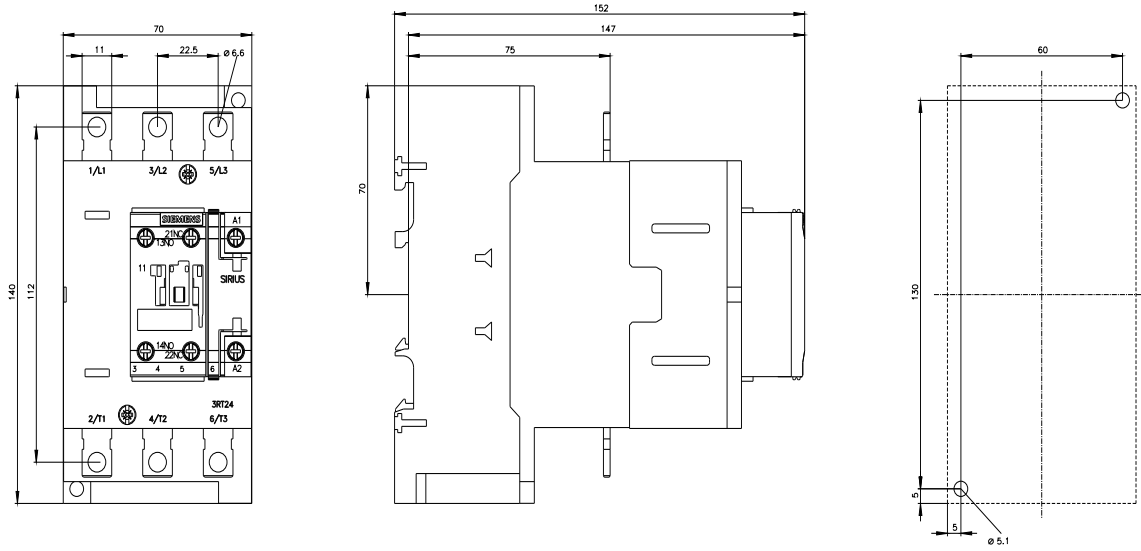
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)  
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2446-6NB30&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2446-6NB30&lang=en)

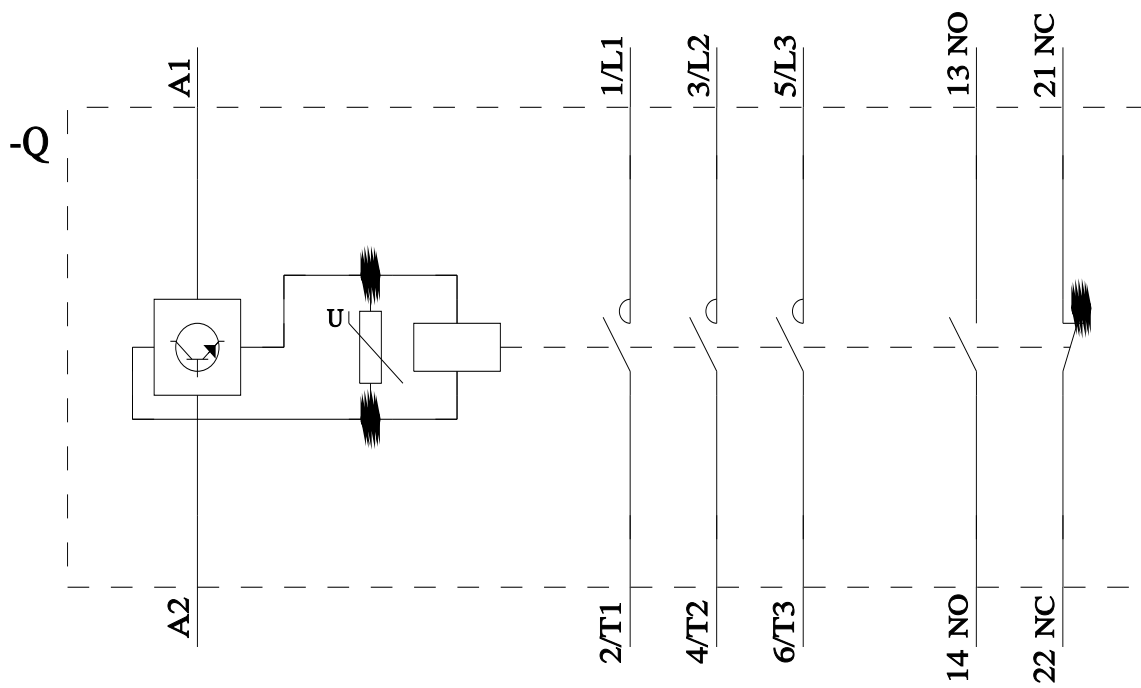
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2446-6NB30/char>

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

<https://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2446-6NB30&objecttype=14&gridview=view1>





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