



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 Prohibitance (day/month/year)	06/12/2019
SVHC substance name	Lead CAS-No. 7439-92-1 Lead monoxide (lead oxide) CAS-No. 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 Melamine CAS-No. 108-78-1
Net 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
operating frequency	
• at AC-3 maximum	850 1/h
• at AC-3e	
— maximum	850 1/h

Control circuit/ Control

inrush current peak	6.5 A
duration of inrush current peak	50 µs
pickup current mean value	3.2 A
pickup current peak	6.5 A
duration of pickup current	150 ms
holding current mean value	75 mA
control version of the switch operating mechanism	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	
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

Approvals Certificates

Environment	General Product Approval
--------------------	---------------------------------

[Environmental Conformations](#)



General Product Approval	EMV	Test Certificates	Maritime application
---------------------------------	------------	--------------------------	-----------------------------



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



Maritime application	other	Railway
-----------------------------	--------------	----------------



[Confirmation](#)



[Special Test Certificate](#)

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>

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

Cax online generator

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

Characteristic curves

https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>



