



contactor, NEMA version, 50 HP, 460 / 575 V, 3-pole, 277 V AC, 60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
type of calculation of power loss current-dependent	quadratic
Substance Prohibitance (day/month/year)	03/01/2017
Net Weight	1.702 kg
Main circuit	
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
• at AC-3 rated value maximum	1 000 V
operational current	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	130 A
• at AC-3	
— at 400 V rated value	95 A
• at AC-4 at 400 V rated value	80 A
operating power	
• at AC-3	
— at 400 V rated value	45 kW
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	240 V
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-15	
• at 400 V rated value	3 A
UL/CSA ratings	
yielded mechanical performance [hp]	
• for 3-phase AC motor	
— at 460/480 V rated value	75 hp
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

design of the fuse link			
- for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 2 required - for short-circuit protection of the auxiliary switch required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) gG: 160 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) gG: 10 A (500 V, 1 kA)		
Installation/ mounting/ dimensions			
fastening method side-by-side mounting	Yes		
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
height	140 mm		
width	70 mm		
depth	152 mm		
Connections/ Terminals			
type of electrical connection			
- for main current circuit - for auxiliary and control circuit	screw-type terminals screw-type terminals		
Safety related data			
product function			
- mirror contact according to IEC 60947-4-1 - positively driven operation according to IEC 60947-5-1 - suitable for safety function	Yes No Yes		
suitability for use safety-related switching OFF	Yes		
service life maximum	20 a		
test wear-related service life necessary	Yes		
proportion of dangerous failures			
- with low demand rate according to SN 31920 - with high demand rate according to SN 31920	40 % 73 %		
B10 value with high demand rate according to SN 31920	1 000 000		
failure rate [FIT] with low demand rate according to SN 31920	100 FIT		
ISO 13849			
device type according to ISO 13849-1	3		
overdimensioning according to ISO 13849-2 necessary	Yes		
IEC 61508			
safety device type according to IEC 61508-2	Type A		
Approvals Certificates			
Environmental Product Declaration			
- global warming potential [CO2 eq] / during manufacturing - global warming potential [CO2 eq] / during operation - global warming potential [CO2 eq] / after end of life - global warming potential [CO2 eq] / total	7.66 kg 399 kg -1.19 kg 405 kg		
Environment	General Product Approval		
Environmental Con- firmations     			
General Product Approval	EMV	Test Certificates	Maritime application
			Special Test Certificate Type Test Certificates/Test Report 
Maritime application	other		



[Miscellaneous](#)

[Confirmation](#)

other	Railway	Dangerous goods
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[Special Test Certificate](#)

[Transport Information](#)

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=3RT2046-1AU60-0UA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-1AU60-0UA0>

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

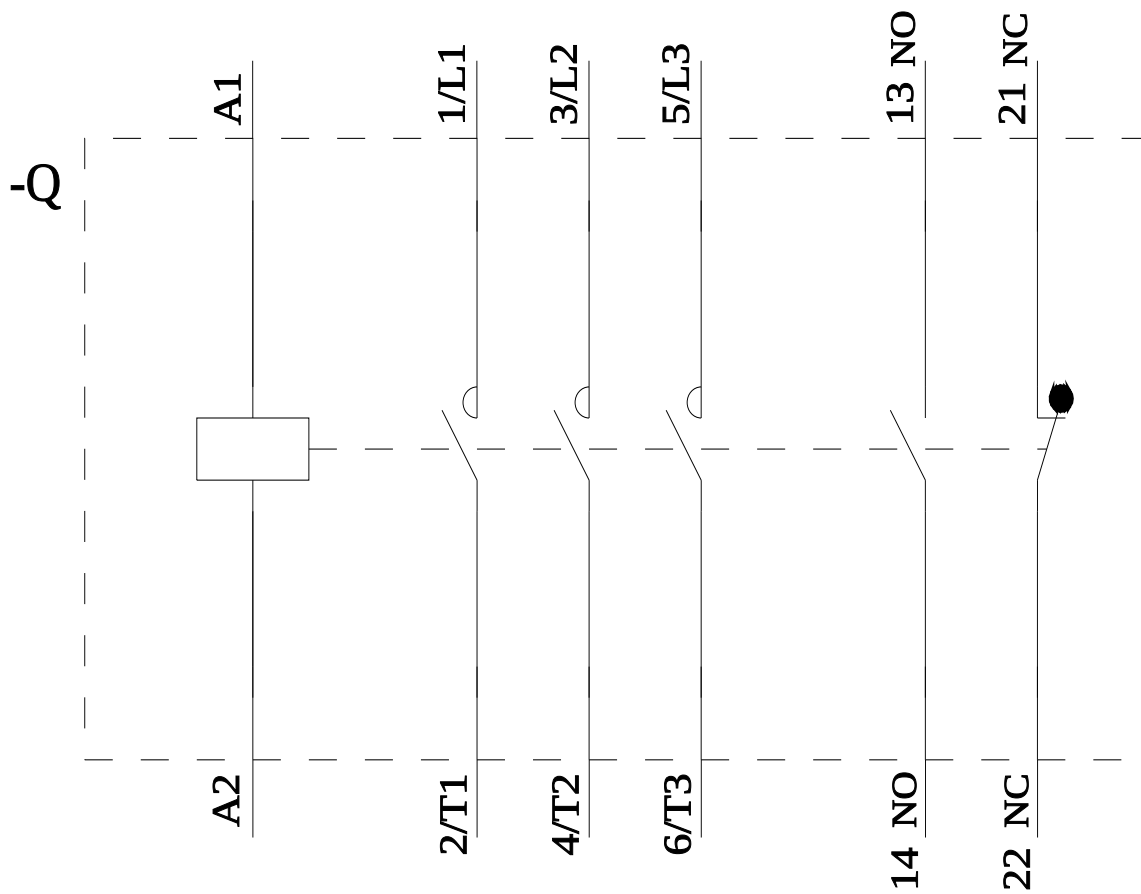
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2046-1AU60-0UA0&lang=en

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2046-1AU60-0UA0>

Characteristic curves

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



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