SIEMENS

Data sheet 3RT2024-1AN20



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 220 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
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 	0.9 W
 at AC in hot operating state per pole 	0.3 W
 without load current share typical 	2 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7,5g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,8g / 5 ms, 7,4g / 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)	10/01/2009
Weight	0.406 kg
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 %

Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	74.2 kg
global warming potential [CO2 eq] during manufacturing	1.9 kg
global warming potential [CO2 eq] during operation	72.4 kg
global warming potential [CO2 eq] after end of life	-0.117 kg
Asin circuit	o. Tri Ng
number of poles for main current circuit	3
number of NO contacts for main contacts	3
	3
operating voltage	600 \
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	40.4
 at AC-1 at 400 V at ambient temperature 40 °C rated value at AC-1 	40 A
— up to 690 V at ambient temperature 40 °C rated value	40 A
up to 690 V at ambient temperature 60 °C rated value	35 A
• at AC-3	
— at 400 V rated value	12 A
— at 500 V rated value	12 A
— at 690 V rated value	9 A
at AC-3e at 400 V rated value.	12 /
— at 400 V rated value	12 A
— at 500 V rated value	12 A
— at 690 V rated value	9 A
at AC-4 at 400 V rated value	12.5 A
at AC-5a up to 690 V rated value	35.2 A
at AC-5b up to 400 V rated value	9.9 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	11.4 A
— up to 400 V for current peak value n=20 rated value	11.4 A
— up to 500 V for current peak value n=20 rated value	11.3 A
— up to 690 V for current peak value n=20 rated valueat AC-6a	9 A
— up to 230 V for current peak value n=30 rated value	7.6 A
— up to 400 V for current peak value n=30 rated value	7.6 A
— up to 500 V for current peak value n=30 rated value	7.6 A
— up to 690 V for current peak value n=30 rated value	7.6 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	5.5 A
at 690 V rated value	5.5 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	20 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A

with 3 current paths in series at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
• at 1 current path at DC-3 at DC-5	Let A
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
with 2 current paths in series at DC-3 at DC-5	,
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
• at AC-3	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles at AC-4	
at 400 V rated value	2.6 kW
• at 690 V rated value	4.6 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	4.5 kVA
• up to 400 V for current peak value n=20 rated value	7.8 kVA
• up to 500 V for current peak value n=20 rated value	9.8 kVA
• up to 690 V for current peak value n=20 rated value	10.7 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	3 kVA
• up to 400 V for current peak value n=30 rated value	5.2 kVA
• up to 500 V for current peak value n=30 rated value	6.5 kVA
• up to 690 V for current peak value n=30 rated value	9 kVA
short-time with stand current in cold operating state up to 40 $^{\circ}\text{C}$	
 limited to 1 s switching at zero current maximum 	210 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	210 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	170 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	126 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	105 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h

operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum 500 1/h Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value • at 50 Hz • at 50 Hz • at 60 Hz at 50 Hz • at 60 Hz at 50 Hz • at 60 Hz control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz at 60 Hz control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz	
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at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value at 50 Hz operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz at 50 Hz at 60 Hz 7.9 VA	
type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 50 Hz • at 60 Hz 7.9 VA	
type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value 220 V operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz for VA inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz 0.72 • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 50 Hz 7.9 VA	
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operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz 68 VA • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz • at 60 Hz 7.9 VA	
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at 60 Hz apparent holding power of magnet coil at AC at 50 Hz 7.9 VA	
apparent holding power of magnet coil at AC ● at 50 Hz 7.9 VA	
• at 50 Hz 7.9 VA	
• at 60 Hz 6.5 VA	
inductive power factor with the holding power of the coil	
• at 50 Hz 0.25	
• at 60 Hz 0.28	
closing delay	
• at AC 8 40 ms	
opening delay ● at AC 4 16 ms	
arcing time 10 10 ms	
control version of the switch operating mechanism Standard A1 - A2	
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	
number of NO contacts for auxiliary contacts instantaneous 1	
contact operational current at AC-12 maximum 10 A	
operational current at AC-12 maximum 10 A operational current at AC-15	
• at 230 V rated value 10 A	
• at 400 V rated value 3 A	
• at 500 V rated value 2 A	
• at 690 V rated value 2 A	
operational current at DC-12	
• at 24 V rated value 10 A	
• at 48 V rated value 6 A	
• at 60 V rated value 6 A	
• at 100 V rated value 3 A	
• at 125 V rated value 2 A	
• at 220 V rated value 2A	
• at 600 V rated value 0.15 A	
operational current at DC-13	
• at 24 V rated value 10 A	
• at 48 V rated value 2 A	
• at 60 V rated value 2 A	
• at 110 V rated value 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 C characteristic: 10 A; 0.4 kA	
of the auxiliary circuit up to 230 V	

contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	11 A
at 600 V rated value	11 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
• for 3-phase AC motor	2 119
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	7.5 hp
— at 575/600 V rated value	10 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	A00071 000
design of the fuse link	
for short-circuit protection of the main circuit with type of coordination 1 required.	aC: 62A (600V 100kA) aM: 22A (600V 100kA) D000; 62A (445V 00kA)
— with type of coordination 1 required	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)
— with type of assignment 2 required	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
for short-circuit protection of the auxiliary switch required Installation/ requiring/ dimensions	gG: 10 A (500 V, 1 kA)
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
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	85 mm
width	45 mm
depth	97 mm
required spacing	
with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
• for grounded parts	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	10 min
— forwards	10 mm
— upwards	10 mm
— upwards — downwards	10 mm
— at the side	6 mm
Connections/ Terminals	V IIIII
type of electrical connection	ecraw type terminals
for main current circuit for auxilians and control circuit	screw-type terminals
for auxiliary and control circuit at contactor for auxiliary contacts.	screw-type terminals
at contactor for auxiliary contacts of magnet ceil.	Screw-type terminals
of magnet coil type of connectable conductor cross sections	Screw-type terminals
type of connectable conductor cross-sections	
• for main contacts	2v /4 2 5 mm²) 2v /2 5 40 mm²)
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
— solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
— finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
for AWG cables for main contacts	2x (16 12), 2x (14 8)
connectable conductor cross-section for main contacts	
• solid	1 10 mm²
• stranded	1 10 mm²
 finely stranded with core end processing 	1 10 mm²

Solid or stranded Solid or stranded with core end processing Solid or stranded with core end processing Solid or stranded or auxiliary contacts Solid or stranded Solid or st
• finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts • for main contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for main contacts • for auxiliary contacts • for auxil
Property of connectable conductor cross-sections In or auxiliary contacts In or auxiliary con
• for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts WG number as coded connectable conductor cross action • for main contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • positively driven operation according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function • suitable for safety function • revice life maximum 20 a Set wear-related service life necessary Yes
— solid or stranded — finely stranded with core end processing — for AWG cables for auxiliary contacts WG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • positively driven operation according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function • suitable for safety function • respectively driven operation according of Formula (auxiliary contact) • respectively driven operation according to IEC 60947-5-1 • suitablity for use safety-related switching OFF Yes • revice life maximum 20 a Set wear-related service life necessary Yes
— finely stranded with core end processing • for AWG cables for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) WG number as coded connectable conductor cross action • for main contacts • for auxiliary contacts • for auxiliary contacts 20 14 ety related data roduct function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function • suitable for safety function yes utability for use safety-related switching OFF Yes rotice life maximum 20 a yes yes
• for AWG cables for auxiliary contacts WG number as coded connectable conductor cross action • for main contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function • suitable for use safety-related switching OFF ves vist wear-related service life necessary 2x (20 16), 2x (18 14) 2x (20 14) 2x (20 16), 2x (18 14) 2x (20 14) 4 8 20 14 Yes Yes 20 14
WG number as coded connectable conductor cross action • for main contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts 20 14 ety related data roduct function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function ves uitability for use safety-related switching OFF privice life maximum 20 a set wear-related service life necessary Yes
• for main contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts 20 14 ety related data roduct function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function • suitable for use safety-related switching OFF Yes ervice life maximum 20 a est wear-related service life necessary Yes
for auxiliary contacts 20 14 ety related data roduct function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 number of safety function suitable for safety function yes cuitability for use safety-related switching OFF yes ervice life maximum 20 a set wear-related service life necessary Yes
ety related data roduct function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 • suitable for safety function ves uitability for use safety-related switching OFF price life maximum 20 a set wear-related service life necessary Yes
orduct function o mirror contact according to IEC 60947-4-1 o positively driven operation according to IEC 60947-5-1 o suitable for safety function ves vitability for use safety-related switching OFF ves vervice life maximum vest wear-related service life necessary ves
 mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 suitable for safety function ves uitability for use safety-related switching OFF ves ext wear-related service life necessary Yes
positively driven operation according to IEC 60947-5-1 suitable for safety function Yes uitability for use safety-related switching OFF Yes ervice life maximum 20 a set wear-related service life necessary Yes
• suitable for safety function Yes uitability for use safety-related switching OFF Yes ervice life maximum 20 a yes wear-related service life necessary Yes
vitability for use safety-related switching OFF Yes ervice life maximum 20 a est wear-related service life necessary Yes
ervice life maximum 20 a set wear-related service life necessary Yes
est wear-related service life necessary Yes
roportion of dangerous failures
• with low demand rate according to SN 31920 40 %
• with high demand rate according to SN 31920 73 %
10 value with high demand rate according to SN 31920 1 000 000
illure rate [FIT] with low demand rate according to SN 100 FIT
O 13849
evice type according to ISO 13849-1 3
verdimensioning according to ISO 13849-2 necessary Yes
C 61508
afety device type according to IEC 61508-2 Type A
lectrical Safety
rotection class IP on the front according to IEC 60529 IP20
buch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front
provals Certificates

General Product Approval







Confirmation



<u>KC</u>

General Product Approval

EMV

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping









Miscellaneous

other

Confirmation

other Railway Environment



Further information

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)

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2024-1AN20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-1AN20

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

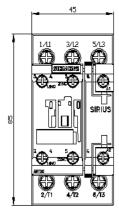
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2024-1AN20&lang=en

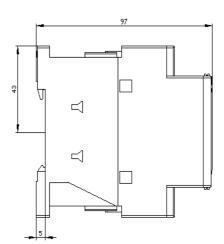
Characteristic: Tripping characteristics, I²t, Let-through current

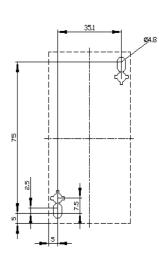
https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-1AN20/char

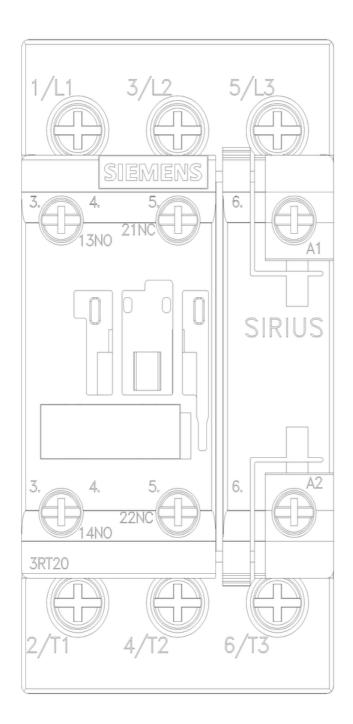
Further characteristics (e.g. electrical endurance, switching frequency)

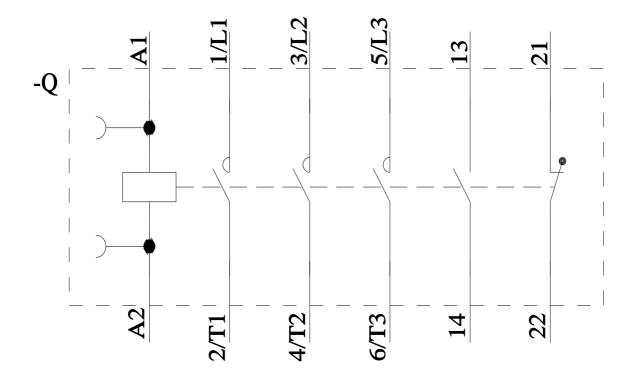
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2024-1AN20&objecttype=14&gridview=view1











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