SIEMENS

Data sheet

3RT2036-1AG24



power contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 110 V AC, 50/60 Hz, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S2, removable auxiliary switch

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
function module for communication	No
auxiliary switch	No
power loss [W] for rated value of the current	
at AC in hot operating state	12 W
• at AC in hot operating state per pole	4 W
 without load current share typical 	6.5 W
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	9.8g / 5 ms, 6.5g / 10 ms
shock resistance with sine pulse	
• at AC	15.3g / 5 ms, 10.1g / 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)	10/01/2014
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 %
Main circuit	
number of poles for main current circuit	3

number of NO contacts for main contacts	3
operating voltage	5
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated	70 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	70 A
value	20 A
— up to 690 V at ambient temperature 60 °C rated value	60 A
• at AC-3	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-4 at 400 V rated value	41 A
• at AC-5a up to 690 V rated value	61.6 A
• at AC-5b up to 400 V rated value	41.5 A
• at AC-6a	
 — up to 230 V for current peak value n=20 rated value 	43.2 A
 — up to 400 V for current peak value n=20 rated value 	43.2 A
 — up to 500 V for current peak value n=20 rated value 	43.2 A
 — up to 690 V for current peak value n=20 rated value 	24 A
● at AC-6a	
 — up to 230 V for current peak value n=30 rated value 	28.8 A
 — up to 400 V for current peak value n=30 rated value 	28.8 A
 — up to 500 V for current peak value n=30 rated value 	28.8 A
— up to 690 V for current peak value n=30 rated value	24 A
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	24 A
• at 690 V rated value	20 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	55 A
— at 60 V rated value	23 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	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 A
- at 220 V rated value	5 A
— at 440 V rated value	1A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 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 	

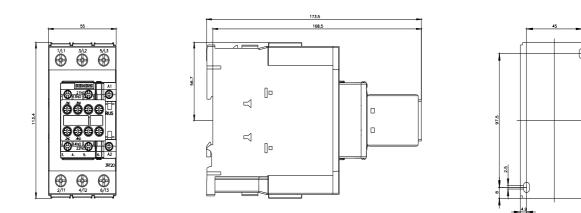
— at 24 V rated value	35 A
— at 60 V rated value	6 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 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	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	
at AC-2 at 400 V rated value	22 kW
• at AC-3	
- at 230 V rated value	15 kW
— at 200 V rated value	22 kW
- at 500 V rated value	22 kW
— at 690 V rated value	22 kW
• at AC-3e	ZZ NVV
- at 400 V rated value	22 kW
— at 500 V rated value	22 KW
— at 690 V rated value	22 KW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	12.6 kW
 at 690 V rated value 	18.2 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	17.2 kVA
 up to 400 V for current peak value n=20 rated value 	29.9 kVA
 up to 500 V for current peak value n=20 rated value 	37.4 kVA
• up to 690 V for current peak value n=20 rated value	28.6 kVA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	11.4 kVA
• up to 400 V for current peak value n=30 rated value	19.9 kVA
• up to 500 V for current peak value n=30 rated value	24.9 kVA
 up to 690 V for current peak value n=30 rated value 	28.6 kVA
short-time withstand current in cold operating state up to	
40 °C	
	937 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 1 s switching at zero current maximum 	
 limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum 	697 A; Use minimum cross-section acc. to AC-1 rated value
-	697 A; Use minimum cross-section acc. to AC-1 rated value 468 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 5 s switching at zero current maximum	
 limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum 	468 A; Use minimum cross-section acc. to AC-1 rated value
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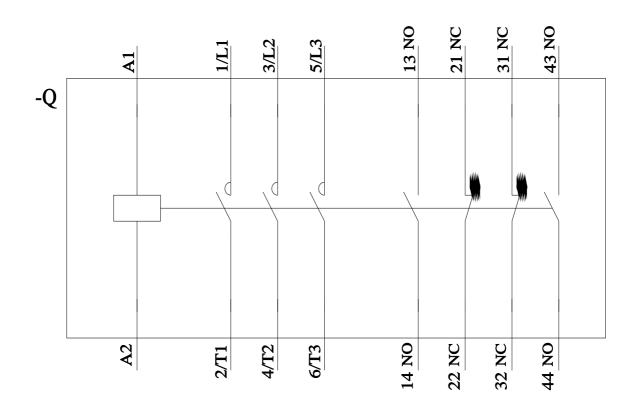
control supply voltage at AC	
• at 50 Hz rated value	110 V
at 60 Hz rated value	110 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	210 VA
• at 60 Hz	188 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.69
• at 60 Hz	0.65
apparent holding power of magnet coil at AC	
• at 50 Hz	17.2 VA
• at 60 Hz	16.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.36
• at 60 Hz	0.39
closing delay	
• at AC	10 80 ms
opening delay	
• at AC	10 18 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	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-12	
at 24 V rated value	10 A
 at 48 V rated value 	6 A
 at 60 V rated value 	6 A
at 110 V rated value	3 A
at 125 V rated value	2 A
at 220 V rated value	1A
at 600 V rated value	0.15 A
operational current at DC-13	
• at 24 V rated value	6 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
at 100 V rated value	1A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 220 V rated value at 600 V rated value	0.1 A
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	52.4
at 480 V rated value	52 A
 at 600 V rated value 	52 A
stated as a basical as from the first	
yielded mechanical performance [hp]	
for single-phase AC motor	
	3 hp 10 hp

with type of assignment 2 required gG: 80A (690V • for short-circuit protection of the auxiliary switch required gG: 10 A (500 Installation/ mounting/ dimensions +/-180° rotation mounting position +/-180° rotation height 114 mm width 55 mm depth 174 mm required spacing • • with side-by-side mounting 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm Or auxiliary and control circuit screw-type terr - at the side 6 mm Connections/ Terminals<	
contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection design of the fuse link - with type of coordination 1 required gG: 160 A (690 V gG) GG: 20A (690 V gG) - with type of assignment 2 required gG: 20A (690 V gG) Installation/ mounting/ dimensions mounting position +/180° rotation backward by + fastening method screw and sna screw and sna • side-by-side mounting Yes height 114 mm width 65 mm depth 174 mm required spacing • with side-by-side mounting - for mm - forwards 10 mm - domm - downwards 10 mm - domm - forwards 10 mm 0 mm - - at the side 6 mm 0 mm - - forwards 10 mm - upwards 10 mm - at the side 6 mm 0 mm - at the side 6 mm - orwards 10 mm - upwards 10 mm	
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required 9G: 80A (690V • for short-circuit protection of the auxiliary switch required mounting position #stallation/mounting/dimensions mounting position + fastening method • side-by-side mounting + fastening method • side-by-side mounting - forwards 10 mm - forwards 10 mm - forwards 10 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm	
design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required gG: 160 A (690 for short-circuit protection of the auxiliary switch required gG: 10 A (500 mounting position +/-180° rotation height 114 mm width 55 mm depth 114 mm width 55 mm depth 174 mm required spacing 0 mm with side-by-side mounting 10 mm — onwards 10 mm — onwards <td< td=""><td></td></td<>	
for short-circuit protection of the main circuit — with type of coordination 1 required gC: 160 A (690 KA) — with type of assignment 2 required gC: 10 A (690 for short-circuit protection of the auxiliary switch required gC: 10 A (690 for short-circuit protection of the auxiliary switch required gC: 10 A (690 for short-circuit protection of the auxiliary switch required gC: 10 A (690 for short-circuit protection of the auxiliary switch required gC: 10 A (690 for short-circuit protection of the auxiliary switch required gC: 10 A (690 for short-circuit protection of the auxiliary switch required gC: 10 A (690 for short-circuit protection of the auxiliary switch required screw and sna e. side-by-side mounting for side auxiliary switch required screw and sna e. side-by-side mounting - forwards 10 mm - forwards 10 mm - downwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm	
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with type of assignment 2 required gG: 80A (690V • for short-circuit protection of the auxiliary switch required gG: 10 A (500V Installation/ mounting/ dimensions +/-180° rotation mounting position +/-180° rotation beight 114 mm width 55 mm depth 114 mm width 55 mm depth 174 mm required spacing • with side-by-side mounting - forwards 10 mm - qbwrads 10 mm - downwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - forwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - forwards 10 mm - forwards 10 mm - forwards 10 mm	V 100 KA) CM: 20 A (600 V 100 KA) DS22: 125 A (415 V 20
• for short-circuit protection of the auxiliary switch required gG: 10 A (500) Installation/ mounting/ dimensions +/180° rotation mounting position +/180° rotation backward by +, fastening method screw and snag • side-by-side mounting width 55 mm depth 114 mm width 55 mm depth 174 mm required spacing 0 mm - forwards 10 mm - upwards 10 mm - downwards 0 mm - at the side 0 mm - for grounded parts 0 mm - forwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - forwards 10 mm - at the side 6 mm - forwards 10 mm - at the side 6 mm - downwards 10 mm - forwards 10 mm - at the side 6 mm - forwards 10 mm - at th	V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80
Installation/ mounting/ dimensions +/-180° rotation mounting position +/-180° rotation backward by + screw and sna side-by-side mounting Yes height 114 mm width 55 mm depth 174 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 10 mm - forwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals screw-type term type of electrical connection screw-type term • for main current circuit screw-type term • solid or stranded 2x (1 35 mm² • solid or stranded 2x (1 35 mm² • fi	100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
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height 114 mm width 55 mm depth 174 mm required spacing 174 mm • with side-by-side mounting 10 mm - forwards 10 mm - upwards 10 mm - downwards 0 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - forwards 10 mm - at the side 6 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm Connections/Terminals screw-type term type of electrical connection screw-type term • for auxiliary and control circuit screw-type term • of magnet coil Screw-type term • of magnet coil Screw-type term • of magnet coil	-on mounting onto 35 mm DIN rail according to DIN EN 60715
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• for AWG cables for auxiliary contacts 2x (20 16), 2	
AWG number as coded connectable conductor cross section	
• for main contacts 18 1	
• for auxiliary contacts 20 14	
Safety related data	

product function						
 mirror contact a 	ccording to IEC 60947-4-1		Yes			
 positively driven 	operation according to IE	C 60947-5-1	No			
suitability for use safety-related switching OFF			Yes			
B10 value with high de	mand rate according to SN	N 31920	1 000 000			
proportion of danger						
		20	40 %			
 with low demand rate according to SN 31920 with high demand rate according to SN 31920 			40 % 73 %			
			100 FIT			
	w demand rate according					
61508	interval or service life acco	ording to IEC	20 a			
	n the front according to I	EC 60529	IP20			
•	he front according to IEC		inger-safe, for vertical contact from the front			
ertificates/ approvals		00020	inger sale, for vertical contact			
General Product App	oroval					
SP M		<u>Confirmation</u>		KC	EHC	
EMC	Functional Safety/Safety of Ma- chinery	Declaration of C	Conformity	Test Certificates		
RCM	Type Examination Cer- tificate	UK CA	C C EG-Konf.	Special Test Certific- ate	Type Test Certific- ates/Test Report	
Marine / Shipping	BUREAU VERITAS		Hoyd's Register uis	PRS	RINA	
Marine / Shipping	other		Railway	Dangerous Good	Environment	
KMRS RMRS	<u>Confirmation</u>	<u>Confirmation</u>	Vibration and Shock	Transport Information	Environmental Con- firmations	
urther information Siemens has decided	I to exit the Russian mar	ket (see here).				
https://press.siemens.c	com/global/en/pressrelease	e/siemens-wind-dov				
Please contact your loc EAC relevant market (Information on the pa https://support.industry Information- and Dow https://www.siemens.cc Industry Mall (Online https://mall.industry.sie Cax online generator http://support.automati Service&Support (Ma https://support.industry Image database (proo http://www.automation	other than the sanctioned l ackaging viewens.com/cs/ww/en/vi vnloadcenter (Catalogs, l om/c10 ordering system) emens.com/mall/en/en/Cat on.siemens.com/WW/CAX unuals, Certificates, Char viewens.com/cs/ww/en/p duct images, 2D dimensio siemens.com/bilddb/cax.com/	status of validity of t EAEU member state ew/109813875 Brochures,) alog/product?mlfb= corder/default.aspx? acteristics, FAQs, s/3RT2036-1AG24 on drawings, 3D m de.aspx?mlfb=3RT2	he EAC certification if you inten es Russia or Belarus). <u>3RT2036-1AG24</u> ? <u>lang=en&mlfb=3RT2036-1AG2</u>) nodels, device circuit diagram	<u>4</u>	bly these products to an	
https://support.industry Further characteristic	ing characteristics, I ² t, Le <u>v.siemens.com/cs/ww/en/p</u> cs (e.g. electrical endural siemens.com/bilddb/index	s/3RT2036-1AG24/ nce, switching free		ttype=14&gridview=view1		
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