SIEMENS

Data sheet

3RT2037-3XB40-0LA2



traction contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 24 V DC, 0.7-1.25* Us, electronic drive, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, size: S2

and here there a new a	
product brand name	SIRIUS
product designation	Power contactor
design of the product	With extended operating range
product type designation	3RT2
General technical data	
size of contactor	S2
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 	11.4 W
at AC in hot operating state per pole	3.8 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 DC	7.7g / 5 ms, 4.5g / 10 ms
shock resistance with sine pulse	
• at DC	12g / 5 ms, 7g / 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	-40 +70 °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	
 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 	80 A
value • at AC-1	
up to 690 V at ambient temperature 40 °C rated	80 A
value	60 A
— up to 690 V at ambient temperature 60 °C rated value	70 A
• at AC-2 at 400 V rated value	65 A
• at AC-3	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
• at AC-3e	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
• at AC-4 at 400 V rated value	55 A
minimum cross-section in main circuit	
• at maximum AC-1 rated value	25 mm²
at maximum Ith rated value	25 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	28 A
• at 690 V rated value	22 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	55 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 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— 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 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 110 V rated value	2.5 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 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 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	30 kW				
• at AC-3					
— at 230 V rated value	18.5 kW				
— at 400 V rated value	30 kW				
— at 500 V rated value	37 kW				
— at 690 V rated value	37 kW				
• at AC-3e					
— at 230 V rated value	18.5 kW				
— at 400 V rated value	30 kW				
— at 500 V rated value	37 kW				
— at 690 V rated value	37 kW				
operating power for approx. 200000 operating cycles at AC-					
4					
• at 400 V rated value	14.7 kW				
• at 690 V rated value	20 kW				
short-time withstand current in cold operating state up to					
40 °C	1.055 At Llos minimum gross section and to A.C.4 rated value				
 limited to 1 s switching at zero current maximum 	1 055 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 5 s switching at zero current maximum 	730 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 10 s switching at zero current maximum 	520 A; Use minimum cross-section acc. to AC-1 rated value				
Imited to 30 s switching at zero current maximum	336 A; Use minimum cross-section acc. to AC-1 rated value				
Imited to 60 s switching at zero current maximum	272 A; Use minimum cross-section acc. to AC-1 rated value				
no-load switching frequency	4 500 4 1				
• at DC	1 500 1/h				
operating frequency					
• at AC-2 at AC-3e maximum	400 1/h				
• at AC-4 maximum	200 1/h				
Ratings for railway applications					
thermal current (Ith) up to 690 V					
 up to 40 °C according to IEC 60077 rated value 	80 A				
 up to 70 °C according to IEC 60077 rated value 	60 A				
Control circuit/ Control					
type of voltage	DC				
type of voltage of the control supply voltage	DC				
a sustainal a sum a la sura literaria a ti DO					
control supply voltage at DC					
rated value	24 V				
rated value operating range factor control supply voltage rated value of	24 V				
rated value operating range factor control supply voltage rated value of magnet coil at DC					
rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value	0.7				
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value 	0.7 1.25				
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor	0.7 1.25 with varistor				
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor inrush current peak 	0.7 1.25 with varistor 3 A				
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor inrush current peak duration of inrush current peak 	0.7 1.25 with varistor 3 A 50 μs				
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value 	0.7 1.25 with varistor 3 A 50 μs 1 A				
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current peak 	0.7 1.25 with varistor 3 A 50 µs 1 A 2.6 A				
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current peak duration of locked-rotor current 	0.7 1.25 with varistor 3 A 50 µs 1 A 2.6 A 230 ms				
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current peak duration of locked-rotor current holding current mean value 	0.7 1.25 with varistor 3 A 50 μs 1 A 2.6 A 230 ms 40 mA				
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current peak duration of locked-rotor current holding current mean value closing power of magnet coil at DC 	0.7 1.25 with varistor 3 A 50 µs 1 A 2.6 A 230 ms 40 mA 23 W				
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current peak duration of locked-rotor current holding current mean value closing power of magnet coil at DC holding power of magnet coil at DC 	0.7 1.25 with varistor 3 A 50 μs 1 A 2.6 A 230 ms 40 mA				
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current peak duration of locked-rotor current holding current mean value closing power of magnet coil at DC holding power of magnet coil at DC closing delay 	0.7 1.25 with varistor 3 A 50 μs 1 A 2.6 A 230 ms 40 mA 23 W 1 W				
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current peak duration of locked-rotor current holding current mean value closing power of magnet coil at DC holding power of magnet coil at DC holding delay	0.7 1.25 with varistor 3 A 50 µs 1 A 2.6 A 230 ms 40 mA 23 W				
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current peak duration of locked-rotor current holding current mean value closing power of magnet coil at DC holding power of magnet coil at DC holding power of magnet coil at DC closing delay at DC opening delay 	0.7 1.25 with varistor 3 A 50 µs 1 A 2.6 A 230 ms 40 mA 23 W 1 W 35 110 ms				
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current peak duration of locked-rotor current holding current mean value closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC	0.7 1.25 with varistor 3 A 50 µs 1 A 2.6 A 230 ms 40 mA 23 W 1 W 35 110 ms 30 55 ms				
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current peak duration of locked-rotor current holding current mean value closing power of magnet coil at DC holding delay	0.7 1.25 with varistor 3 A 50 μs 1 A 2.6 A 230 ms 40 mA 23 W 1 W 35 110 ms 30 55 ms 10 20 ms				
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value design of the surge suppressor inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current peak duration of locked-rotor current holding current mean value closing power of magnet coil at DC holding power of magnet coil at DC closing delay at DC	0.7 1.25 with varistor 3 A 50 µs 1 A 2.6 A 230 ms 40 mA 23 W 1 W 35 110 ms 30 55 ms				

number of NC contacts for auxillary contacts 1 • instantaneous contact 1 • instantaneous contact 1 • instantaneous contact 1 • 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 600 V rated value 1 A operational current at DC-12 • • at 42 V rated value 6 A • at 600 V rated value 6 A • at 60 V rated value 6 A • at 22 V rated value 6 A • at 22 V rated value 0.15 A operational current at DC-13 • • at 60 V rated value 1 A • at 22 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 1 A • at 22 V rated value 3 A • a	
number of NO contacts for auxiliary contacts 1 • instantaneous contact 1 operational current at AC-12 maximum 10 A operational current at AC-15 • • at 230 V rated value 10 A • at 200 V rated value 3 A • at 600 V rated value 2 A • at 600 V rated value 1 A operational current at DC-12 • • at 24 V rated value 6 A • at 48 V rated value 6 A • at 60 V rated value 6 A • at 20 V rated value 6 A • at 20 V rated value 1 A operational current at DC-12 • • at 48 V rated value 6 A • at 40 V rated value 6 A • at 20 V rated value 0 A • at 20 V rated value 0 A • at 220 V rated value 0 A • at 220 V rated value 10 A • at 240 V rated value 2 A • at 240 V rated value 2 A • at 220 V rated value 0 A • at 220 V rated value 0 A • at 220 V rated value 0 A	
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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 1 A operational current at DC-12 - • at 24 V rated value 10 A • at 24 V rated value 6 A • at 60 V rated value 6 A • at 10 V rated value 1 A • at 220 V rated value 1 A • at 220 V rated value 1 A • at 220 V rated value 2 A • at 10 V rated value 1 A • at 220 V rated value 1 A • at 220 V rated value 0.15 A operational current at DC-13 - • at 24 V rated value 1 A • at 24 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 3 A • at 20 V rated value 0 A • at 20 V rated value 0 A • at 220 V rated value 0 A •	
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 600 V rated value • at 600 V rated value • at 680 V rated value • at 680 V rated value • at 640 V rated value • at 640 V rated value • at 640 V rated value • at 60 V rated value • at 60 V rated value • at 10 V rated value • at 20 V rated value • at 20 V rated value • at 80 V rated value • at 80 V rated value • at 80 V rated value • at 40 V rated value • at 215 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value	
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• at 500 V rated value2 A• at 690 V rated value1 Aoperational current at DC-12-• at 24 V rated value10 A• at 24 V rated value6 A• at 60 V rated value3 A• at 10 V rated value2 A• at 10 V rated value10 A• at 220 V rated value1 A• at 60 V rated value1 A• at 60 V rated value10 A• at 80 V rated value2 A• at 60 V rated value10 A• at 80 V rated value2 A• at 60 V rated value2 A• at 60 V rated value2 A• at 25 V rated value0.9 A• at 25 V rated value0.9 A• at 25 V rated value0.3 A• at 20 V rated value0.3 A• at 600 V rated value0.1 AULCSA ratings5 Afull-load current (FLA) for 3-phase AC motor65 A• at 600 V rated value5 A• at 600 V rated value5 A• at 600 V rated value5 hp- at 110/120 V rated value5 hp- at 110/120 V rated value10 hp	
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• at 600 V rated value 52 A yielded mechanical performance [hp] Figure 100 (100 (100 (100 (100 (100 (100 (100	
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for single-phase AC motor at 110/120 V rated value 5 hp at 230 V rated value 10 hp	
- at 230 V rated value 10 hp	
for 3-phase AC motor	
- at 200/208 V rated value 20 hp	
- at 220/230 V rated value 20 hp	
- at 460/480 V rated value 50 hp	
- at 575/600 V rated value 50 hp	
contact rating of auxiliary contacts according to UL A600 / P600	
Short-circuit protection	
product function short circuit protection No	
design of the fuse link	
for short-circuit protection of the main circuit	
	kA), BS88: 200 A (415 V, 80
	3S88: 100A (415V,80kA)
• for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)	
Installation/ mounting/ dimensions	
mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forw backward by +/- 22.5° on vertical mounting surface	
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN	
solew and shap-on mounting one so him bits rain according to bits en	9
side-by-side mounting Yes	9
	9
side-by-side mounting Yes	9
• side-by-side mounting Yes height 114 mm	9
• side-by-side mounting Yes height 114 mm width 55 mm	9
• side-by-side mounting Yes height 114 mm width 55 mm depth 130 mm	9
• side-by-side mounting Yes height 114 mm width 55 mm depth 130 mm required spacing Image: Spacing mount in the space mount	9
• side-by-side mounting Yes height 114 mm width 55 mm depth 130 mm required spacing • with side-by-side mounting +	9

— 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 				
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	6 mm			
Connections/ Terminals				
type of electrical connection				
 for main current circuit 	screw-type terminals			
 for auxiliary and control circuit 	spring-loaded terminals			
 at contactor for auxiliary contacts 	Spring-type terminals			
of magnet coil	Spring-type terminals			
type of connectable conductor cross-sections for main contacts				
solid or stranded	2x (1 35 mm ²), 1x (1 50 mm ²)			
finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)			
type of connectable conductor cross-sections				
 for auxiliary contacts 				
— solid or stranded	2x (0.5 2.5 mm ²)			
 finely stranded with core end processing 	2x (0.5 1.5 mm ²)			
— finely stranded without core end processing	2x (0.5 2.5 mm ²)			
for AWG cables for auxiliary contacts	2x (20 14)			
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 according to IEC 60947-4-1 	Yes			
 positively driven operation according to IEC 60947-5-1 	No			
B10 value with high demand rate according to SN 31920	1 000 000			
proportion of dangerous failures				
with low demand rate according to SN 31920	40 %			
with high demand rate according to SN 31920	73 %			
failure rate [FIT] with low demand rate according to SN 31920	100 FIT			
T1 value for proof test interval or service life according to IEC 61508	20 a			
protection class IP on the front according to IEC 60529	IP20			
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front			
Communication/ Protocol				
product function bus communication	No			
Certificates/ approvals				
General Product Approval				
EMC Functional Safety/Safety of Ma- chinery	Conformity Test Certificates			
RCM Type Examination Cer- tificate UK	Type Test Certific- ates/Test Report Special Test Certific- ate EG-Konf. Special Test Certific- ate			

Marine / Shipping					
ABS	B UREAU VERITAS	Lloyd's Register urs	PRS	RINA	
other	Railway			Environment	
<u>Confirmation</u>	Type Test Certific- ates/Test Report	Special Test Certific- ate	Vibration and Shock	Environmental Con- firmations	

Further information

Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2037-3XB40-0LA2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-3XB40-0LA2

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-3XB40-0LA2

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

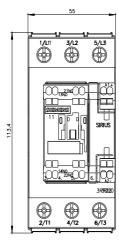
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2037-3XB40-0LA2&lang=en

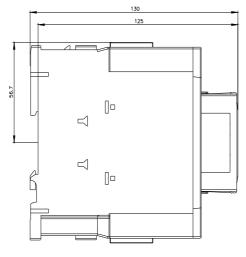
Characteristic: Tripping characteristics, I²t, Let-through current

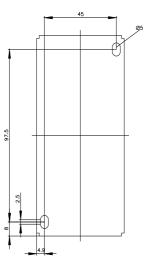
https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-3XB40-0LA2/char

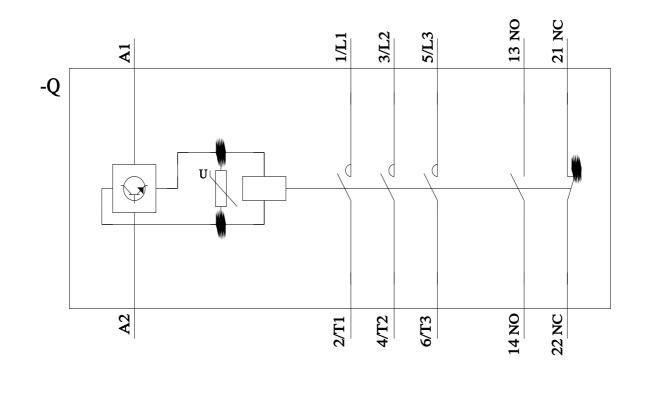
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-3XB40-0LA2&objecttype=14&gridview=view1









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