SIEMENS

Data sheet

3RT2036-1XB40-0LA2



traction contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 24 V DC, 0.7-1.25* Us, electronic drive, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2

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 	12 W
 at AC in hot operating state per pole 	4 W
 without load current share typical 	1 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 ∨
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	70 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	70 A
value	
 — up to 690 V at ambient temperature 60 °C rated value 	60 A
• at AC-2 at 400 V rated value	50 A
• at AC-3	0077
— 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
minimum cross-section in main circuit	
at maximum AC-1 rated value	25 mm²
at maximum No Protect 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 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

— 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 	22 kW				
• at AC-3					
— at 230 V rated value	15 kW				
— at 400 V rated value	22 kW				
— at 500 V rated value	30 kW				
— at 690 V rated value	22 kW				
• at AC-3e					
— at 230 V rated value	15 kW				
— at 400 V rated value	22 kW				
— at 500 V rated value	30 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				
short-time withstand current in cold operating state up to 40 °C					
 limited to 1 s switching at zero current maximum 	937 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 5 s switching at zero current maximum 	697 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 10 s switching at zero current maximum 	468 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 30 s switching at zero current maximum 	282 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 60 s switching at zero current maximum 	229 A; Use minimum cross-section acc. to AC-1 rated value				
no-load switching frequency					
• at DC	1 500 1/h				
operating frequency					
• at AC-2 at AC-3e maximum	600 1/h				
• at AC-4 maximum	250 1/h				
Patings for railway applications					
Ratings for railway applications					
thermal current (Ith) up to 690 V					
	70 A				
thermal current (Ith) up to 690 V	70 A 55 A				
thermal current (Ith) up to 690 V • up to 40 °C according to IEC 60077 rated value					
thermal current (Ith) up to 690 V • up to 40 °C according to IEC 60077 rated value • up to 70 °C according to IEC 60077 rated value Control circuit/ Control					
thermal current (Ith) up to 690 V • up to 40 °C according to IEC 60077 rated value • up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage	55 A				
thermal current (Ith) up to 690 V • up to 40 °C according to IEC 60077 rated value • up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage type of voltage of the control supply voltage	55 A DC				
thermal current (Ith) up to 690 V • up to 40 °C according to IEC 60077 rated value • up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC	55 A DC DC				
thermal current (Ith) up to 690 V • up to 40 °C according to IEC 60077 rated value • up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of	55 A DC				
thermal current (Ith) up to 690 V • up to 40 °C according to IEC 60077 rated value • up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • rated value	55 A DC DC 24 V				
thermal current (Ith) up to 690 V • up to 40 °C according to IEC 60077 rated value • up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC	55 A DC DC				
thermal current (Ith) up to 690 V • up to 40 °C according to IEC 60077 rated value • up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value	55 A DC DC 24 V 0.7 1.25				
thermal current (Ith) up to 690 V • up to 40 °C according to IEC 60077 rated value • up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • 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	55 A DC DC 24 V 0.7 1.25 with varistor				
thermal current (Ith) up to 690 V • up to 40 °C according to IEC 60077 rated value • up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • 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	55 A DC DC 24 V 0.7 1.25 With varistor 3 A				
thermal current (Ith) up to 690 V • up to 40 °C according to IEC 60077 rated value • up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • 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	55 A DC DC 24 V 0.7 1.25 with varistor 3 A 50 μs				
thermal current (Ith) up to 690 V • up to 40 °C according to IEC 60077 rated value • up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • 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	55 A DC DC 24 V 0.7 1.25 with varistor 3 A 50 μs 1 A				
thermal current (Ith) up to 690 V • up to 40 °C according to IEC 60077 rated value • up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • 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	55 A DC DC 24 V 0.7 1.25 with varistor 3 A 50 μs 1 A 2.6 A				
thermal current (Ith) up to 690 V • up to 40 °C according to IEC 60077 rated value • up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • 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	55 A DC DC 24 V 0.7 1.25 with varistor 3 A 50 μs 1 A 2.6 A 230 ms				
thermal current (Ith) up to 690 V • up to 40 °C according to IEC 60077 rated value • up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • 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 mean value	55 A DC DC 24 V 0.7 1.25 with varistor 3 A 50 μs 1 A 2.6 A 230 ms 40 mA				
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thermal current (Ith) up to 690 V • up to 40 °C according to IEC 60077 rated value • up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • 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	55 A DC DC 24 V 0.7 1.25 with varistor 3 A 50 μs 1 A 2.6 A 230 ms 40 mA				
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thermal current (Ith) up to 690 V • up to 40 °C according to IEC 60077 rated value • up to 70 °C according to IEC 60077 rated value Control circuit/ Control type of voltage type of voltage of the control supply voltage control supply voltage at DC • 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 mean value closing power of magnet coil at DC holding power of magnet coil at DC • at DC	55 A DC DC 24 V 0.7 1.25 with varistor 3 A 50 μs 1 A 2.6 A 230 ms 40 mA 23 W 1 W				

Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
instantaneous contact	1
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 400 V rated value	3A
at 500 V rated value	2 A
at 690 V rated value	1A
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	3A
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	10 A
• at 48 V rated value	2 A
at 40 V rated value 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 600 V rated value	0.1 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	52 A
at 600 V rated value	52 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	3 hp
— at 230 V rated value	10 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	15 hp
- at 220/230 V rated value	15 hp
— at 460/480 V rated value	40 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	
— with type of coordination 1 required	gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)
— with type of assignment 2 required	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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 forward and
fastaning method	backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
side-by-side mounting	Yes
height	114 mm
width	55 mm
depth	130 mm
required spacing	
with side-by-side mounting	40
— forwards	10 mm
— upwards	10 mm

— downwards	10 mm		
— at the side	0 mm		
for grounded parts	10 mm		
— forwards	10 mm		
— upwards	10 mm		
— at the side	6 mm 10 mm		
 downwards for live parts 			
• for live parts — forwards	10 mm		
	10 mm 10 mm		
— upwards — downwards	10 mm		
— at the side	6 mm		
Connections/ Terminals	0 mm		
type of electrical connection for main current circuit 	scrow type terminals		
	screw-type terminals		
 for auxiliary and control circuit at contactor for auxiliary contacts 	screw-type terminals Screw-type terminals		
of magnet coil			
type of connectable conductor cross-sections for main contacts	Screw-type terminals		
solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)		
 finely stranded with core end processing 	2x (1 35 mm ²), 1x (1 35 mm ²)		
type of connectable conductor cross-sections			
for auxiliary contacts			
- solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
 — finely stranded with core end processing 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)		
 for AWG cables for auxiliary contacts 	2x (0.0 16), 2x (18 14)		
AWG number as coded connectable conductor cross			
section			
for main contacts	18 1		
 for auxiliary contacts 	20 14		
Safety related data			
Safety related data product function			
	Yes		
product function	Yes No		
product functionmirror contact according to IEC 60947-4-1			
 product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 	No		
product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920	No		
 product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures 	No 1 000 000		
product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920	No 1 000 000 40 %		
product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • The properties of the propertie	No 1 000 000 40 % 73 %		
product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • Table the transformed of the tr	No 1 000 000 40 % 73 % 100 FIT 20 a		
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product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	No 1 000 000 40 % 73 % 100 FIT 20 a		
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product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 Communication/ Protocol product function bus communication	No 1 000 000 40 % 73 % 100 FIT 20 a IP20		
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product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 communication/ Protocol product function bus communication Certificates/ approvals General Product Approval Confirmation EMC Functional Safety/Safety of Machinery Declaration of	No 1 000 000 40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contact from the front No KC Efficient Conformity Test Certificates		
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Marine / Shipping					
ABS	B U RE A U VERITAS	Lloyd's Register urs	PRS	RINA	RMRS R
other	Railway			Environment	
<u>Confirmation</u>	Vibration and Shock	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report	Environmental Con- firmations	

Further information

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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=3RT2036-1XB40-0LA2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-1XB40-0LA2

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1XB40-0LA2

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

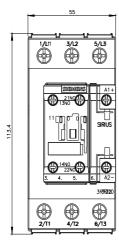
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2036-1XB40-0LA2&lang=en

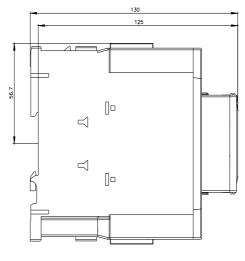
Characteristic: Tripping characteristics, I²t, Let-through current

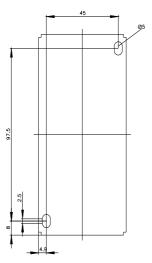
https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1XB40-0LA2/char

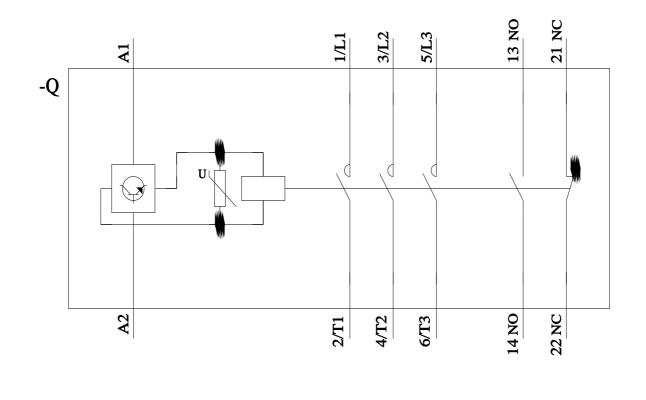
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2036-1XB40-0LA2&objecttype=14&gridview=view1









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