## Data sheet 3RT2036-3XJ40-0LA2



traction contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 72 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

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	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	12 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	4 W
<ul> <li>without load current share typical</li> </ul>	1 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	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	6.1g / 5 ms, 3.7g / 10 ms
shock resistance with sine pulse	
• at DC	9.6g / 5 ms, 5.8g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	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	
<ul> <li>during operation</li> </ul>	-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	
<ul> <li>at AC-3 rated value maximum</li> </ul>	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	
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	70 A
— 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	
— 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 Ith rated value	25 mm <sup>2</sup>
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
<ul><li>with 2 current paths in series at DC-1</li></ul>	
— 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
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— 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 ood a raida failad	

— 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			
<ul> <li>at AC-2 at 400 V rated value</li> </ul>	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-	EE KV		
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			
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	937 A; Use minimum cross-section acc. to AC-1 rated value		
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	697 A; Use minimum cross-section acc. to AC-1 rated value		
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	468 A; Use minimum cross-section acc. to AC-1 rated value		
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	282 A; Use minimum cross-section acc. to AC-1 rated value		
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	229 A; Use minimum cross-section acc. to AC-1 rated value		
no-load switching frequency			
• at DC	1 500 1/h		
operating frequency			
	COO 4/h		
• 21 AU-7 21 AU-30 MAYIMIIM			
• at AC-2 at AC-3e maximum • at AC-4 maximum	600 1/h 250 1/h		
at AC-4 maximum	250 1/h		
• at AC-4 maximum  Ratings for railway applications			
at AC-4 maximum  Ratings for railway applications  thermal current (Ith) up to 690 V	250 1/h		
<ul> <li>at AC-4 maximum</li> <li>Ratings for railway applications</li> <li>thermal current (Ith) up to 690 V</li> <li>up to 40 °C according to IEC 60077 rated value</li> </ul>	250 1/h 70 A		
<ul> <li>at AC-4 maximum</li> <li>Ratings for railway applications</li> <li>thermal current (Ith) up to 690 V</li> <li>up to 40 °C according to IEC 60077 rated value</li> <li>up to 70 °C according to IEC 60077 rated value</li> </ul>	250 1/h		
at AC-4 maximum  Ratings for railway applications  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	250 1/h  70 A 55 A		
at AC-4 maximum  Ratings for railway applications  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	250 1/h  70 A 55 A  DC		
at AC-4 maximum  Ratings for railway applications  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	250 1/h  70 A 55 A		
at AC-4 maximum  Ratings for railway applications  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	250 1/h  70 A 55 A  DC		
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at AC-4 maximum  Ratings for railway applications  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	250 1/h  70 A 55 A  DC DC T2 V		
at AC-4 maximum  Ratings for railway applications  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	250 1/h  70 A 55 A  DC DC 72 V  0.7		
at AC-4 maximum  Ratings for railway applications  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	250 1/h  70 A 55 A  DC DC T2 V		
at AC-4 maximum  Ratings for railway applications  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	250 1/h  70 A 55 A  DC DC 72 V  0.7		
at AC-4 maximum  Ratings for railway applications  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	250 1/h  70 A 55 A  DC DC 72 V  0.7 1.25		
at AC-4 maximum  Ratings for railway applications  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	250 1/h  70 A 55 A  DC DC T2 V  0.7 1.25 with varistor		
at AC-4 maximum  Ratings for railway applications  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  duration of locked-rotor current	250 1/h  70 A 55 A  DC DC 72 V  0.7 1.25 with varistor 230 ms		
at AC-4 maximum  Ratings for railway applications  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  duration of locked-rotor current  closing power of magnet coil at DC	250 1/h  70 A 55 A  DC DC T2 V  0.7 1.25 with varistor 230 ms 23 W		
at AC-4 maximum  Ratings for railway applications  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  duration of locked-rotor current  closing power of magnet coil at DC  holding power of magnet coil at DC	250 1/h  70 A 55 A  DC DC T2 V  0.7 1.25 with varistor 230 ms 23 W		
at AC-4 maximum  Ratings for railway applications  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  duration of locked-rotor current  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay	250 1/h  70 A 55 A  DC DC 72 V  0.7 1.25 with varistor 230 ms 23 W 1 W		
at AC-4 maximum  Ratings for railway applications  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  duration of locked-rotor current  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay  at DC	250 1/h  70 A 55 A  DC DC 72 V  0.7 1.25 with varistor 230 ms 23 W 1 W		
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at AC-4 maximum  Ratings for railway applications  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  duration of locked-rotor current  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay  at DC  opening delay  at DC	250 1/h  70 A 55 A  DC DC 72 V  0.7 1.25 with varistor 230 ms 23 W 1 W  35 110 ms  30 55 ms		
at AC-4 maximum  Ratings for railway applications  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  duration of locked-rotor current  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay  at DC  opening delay  at DC  arcing time	250 1/h  70 A 55 A  DC DC  72 V  0.7 1.25 with varistor 230 ms 23 W 1 W  35 110 ms  30 55 ms 10 20 ms		
at AC-4 maximum  Ratings for railway applications  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  duration of locked-rotor current  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay  at DC  opening delay  at DC  arcing time  control version of the switch operating mechanism  Auxiliary circuit	250 1/h  70 A 55 A  DC DC  72 V  0.7 1.25 with varistor 230 ms 23 W 1 W  35 110 ms  30 55 ms 10 20 ms		
at AC-4 maximum  Ratings for railway applications  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  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  duration of locked-rotor current  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay  at DC  arcing time  control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts	250 1/h  70 A 55 A  DC DC 72 V  0.7 1.25 with varistor 230 ms 23 W 1 W  35 110 ms  30 55 ms 10 20 ms Standard A1 - A2		
at AC-4 maximum  Ratings for railway applications  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  duration of locked-rotor current  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay  at DC  opening delay  at DC  arcing time  control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts  instantaneous contact	250 1/h  70 A 55 A  DC DC 72 V  0.7 1.25 with varistor 230 ms 23 W 1 W  35 110 ms  30 55 ms 10 20 ms Standard A1 - A2		
at AC-4 maximum  Ratings for railway applications  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  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  duration of locked-rotor current  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay  at DC  arcing time  control version of the switch operating mechanism  Auxiliary circuit  number of NC contacts for auxiliary contacts	250 1/h  70 A 55 A  DC DC 72 V  0.7 1.25 with varistor 230 ms 23 W 1 W  35 110 ms  30 55 ms 10 20 ms Standard A1 - A2		

operational current at AC-12 maximum	10 A	
operational current at AC-12 maximum	1071	
• 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	40.4	
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	1 A	
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 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	
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	10 115	
— 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 / Q600	
Short-circuit protection		
product function short circuit protection	No	
design of the fuse link		
<ul> <li>for short-circuit protection of the main circuit</li> </ul>		
•		
— 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 coordination 1 required	kA)	
with type of coordination 1 required  with type of assignment 2 required	kA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)	
with type of coordination 1 required  with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required	KA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and	
— with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position	KA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface	
— with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	
— with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes	
— with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 114 mm	
— with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes	
— with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 114 mm	
— with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 114 mm 55 mm	
— with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 114 mm 55 mm	
— with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 114 mm 55 mm	
— with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 114 mm 55 mm 130 mm	
— with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 114 mm 55 mm 130 mm	
— with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards  — upwards	KA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 114 mm 55 mm 130 mm	
— with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards  — at the side	KA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 114 mm 55 mm 130 mm	
— with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards  — at the side  • for grounded parts	KA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 114 mm 55 mm 130 mm	
— with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  height  width  depth  required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards  — at the side	KA) gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA)  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 114 mm 55 mm 130 mm  10 mm 10 mm 10 mm 0 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	
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals	
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals	
of magnet coil	Spring-type terminals	
type of connectable conductor cross-sections for main contacts		
<ul> <li>solid or stranded</li> </ul>	2x (1 35 mm²), 1x (1 50 mm²)	
finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)	
type of connectable conductor cross-sections		
<ul> <li>for auxiliary contacts</li> </ul>		
— solid or stranded	2x (0.5 2.5 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)	
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)	
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 14)	
AWG number as coded connectable conductor cross section		
<ul> <li>for main contacts</li> </ul>	18 1	
<ul> <li>for auxiliary contacts</li> </ul>	20 14	
Safety related data		
product function		
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes	
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No	
B10 value with high demand rate according to SN 31920	1 000 000	
proportion of dangerous failures		
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %	
<ul> <li>with high demand rate according to SN 31920</li> </ul>	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



Confirmation





<u>KC</u>



Functional
Safety/Safety of Machinery

Declaration of Conformity
Test Certificates



Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













other	Railway	Environment

 
 Confirmation
 Special Test Certificate
 Type Test Certificates/Test Report
 Vibration and Shock Vibration and Shock
 Environmental Confirmations

## **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=3RT2036-3XJ40-0LA2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-3XJ40-0LA2

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-3XJ40-0LA2

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

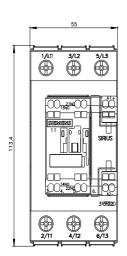
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2036-3XJ40-0LA2&lang=en

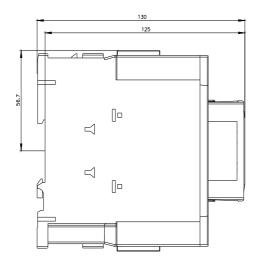
Characteristic: Tripping characteristics, I2t, Let-through current

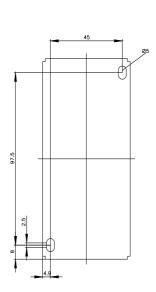
https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-3XJ40-0LA2/char

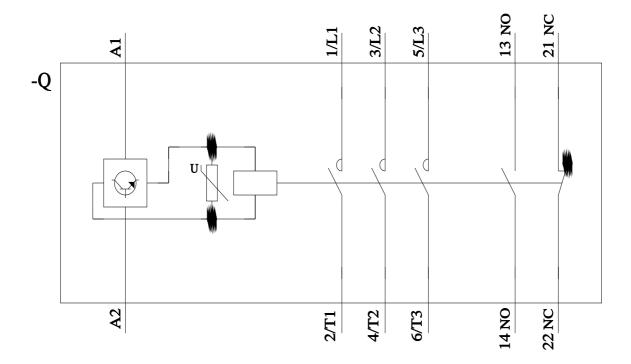
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2036-3XJ40-0LA2&objecttype=14&gridview=view1









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