3RT1064-6AB36-3PA0

## **Data sheet**



power contactor, AC-3e/AC-3 225 A, 110 kW / 400 V AC (50-60 Hz) / DC Uc: 23-26 V 3-pole, auxiliary contacts 2 NO + 2 NC permanently mounted drive: conventional main circuit: busbar control and auxiliary circuit: screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S10
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>	51 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	17 W
<ul> <li>without load current share typical</li> </ul>	7.4 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	500 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 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)	05/01/2012
SVHC substance name	Lead - 7439-92-1
Weight	6.467 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C

relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30	95 %
maximum	
ain 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	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	275 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	275 A
value	
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	250 A
— up to 1000 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	100 A
— up to 1000 V at ambient temperature 60 °C rated value	100 A
• at AC-3	
— at 400 V rated value	225 A
— at 500 V rated value	225 A
— at 690 V rated value	225 A
— at 1000 V rated value	68 A
• at AC-3e	
— at 400 V rated value	225 A
— at 500 V rated value	225 A
— at 690 V rated value	225 A
— at 1000 V rated value	68 A
at AC-4 at 400 V rated value	195 A
at AC-5a up to 690 V rated value      AC-5b up to 400 V rated value	242 A
<ul><li>at AC-5b up to 400 V rated value</li><li>at AC-6a</li></ul>	186 A
— up to 230 V for current peak value n=20 rated value	225 A
— up to 400 V for current peak value n=20 rated value	225 A
up to 500 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value	225 A
— up to 690 V for current peak value n=20 rated value	225 A
— up to 1000 V for current peak value n=20 rated	68 A
value	00 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	172 A
— up to 400 V for current peak value n=30 rated value	172 A
— up to 500 V for current peak value n=30 rated value	172 A
— up to 690 V for current peak value n=30 rated value	172 A
— up to 1000 V for current peak value n=30 rated value	68 A
minimum cross-section in main circuit at maximum AC-1 rated value	150 mm²
operational current for approx. 200000 operating cycles at AC-4	00.4
at 400 V rated value	96 A
at 690 V rated value	85 A
operational current	
at 1 current path at DC-1     at 24 V roted value.	200 A
— at 24 V rated value	200 A
— at 60 V rated value	200 A
— at 110 V rated value	18 A
— at 220 V rated value	3.4 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.5 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	

— at 60 V rated value	200 A
— at 110 V rated value	200 A
— at 220 V rated value	20 A
— at 440 V rated value	3.2 A
— at 600 V rated value	1.6 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	200 A
— at 60 V rated value	200 A
— at 110 V rated value	200 A
— at 220 V rated value	200 A
— at 440 V rated value	11 A
— at 600 V rated value	4 A
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	200 A
— at 60 V rated value	7.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.17 A
— at 600 V rated value	0.12 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	200 A
— at 60 V rated value	200 A
— at 110 V rated value	200 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	200 A
— at 60 V rated value	200 A
— at 110 V rated value	200 A
— at 220 V rated value	200 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
at AC-2 at 400 V rated value	110 kW
• at AC-3	
— at 230 V rated value	55 kW
— at 400 V rated value	110 kW
— at 500 V rated value	160 kW
— at 690 V rated value	200 kW
— at 1000 V rated value	90 kW
• at AC-3e	
— at 230 V rated value	55 kW
— at 400 V rated value	110 kW
— at 500 V rated value	160 kW
— at 690 V rated value	200 kW
— at 1000 V rated value	90 kW
operating power for approx. 200000 operating cycles at AC-	
4	
<ul> <li>at 400 V rated value</li> </ul>	54 kW
at 690 V rated value	82 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	90 000 kVA
• up to 400 V for current peak value n=20 rated value	150 000 VA
• up to 500 V for current peak value n=20 rated value	190 000 VA
• up to 690 V for current peak value n=20 rated value	260 000 VA
• up to 1000 V for current peak value n=20 rated value	110 000 VA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	60 000 VA
• up to 400 V for current peak value n=30 rated value	110 000 VA
• up to 500 V for current peak value n=30 rated value	140 000 VA
• up to 690 V for current peak value n=30 rated value	200 000 VA

• up to 1000 V for current peak value n=30 rated value	110 000 VA
short-time withstand current in cold operating state up to	
40 °C	4 000 A. Hee minimum erece and in the AO A. I. I.
Iimited to 1 s switching at zero current maximum	4 000 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 5 s switching at zero current maximum	2 807 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	2 082 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	1 397 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	1 144 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
operating frequency	
• at AC-1 maximum	750 1/h
• at AC-2 maximum	250 1/h
• at AC-3 maximum	500 1/h
• at AC-3e maximum	500 1/h
• at AC-4 maximum	130 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	23 26 V
at 60 Hz rated value	23 26 V
control supply voltage at DC rated value	23 26 V
operating range factor control supply voltage rated value of	
magnet coil at DC	
• initial value	0.8
• full-scale value	1.1
operating range factor control supply voltage rated value of	
magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power	
<ul> <li>at minimum rated control supply voltage at AC</li> </ul>	
— at 50 Hz	490 VA
— at 60 Hz	490 VA
<ul> <li>at maximum rated control supply voltage at AC</li> </ul>	
— at 60 Hz	590 VA
— at 50 Hz	590 VA
apparent pick-up power of magnet coil at AC	
• at 50 Hz	590 VA
• at 60 Hz	590 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.9
• at 60 Hz	0.9
apparent holding power	
at minimum rated control supply voltage at DC	6.1 VA
at maximum rated control supply voltage at DC     at maximum rated control supply voltage at DC	7.4 VA
apparent holding power	1.7 1/1
• at minimum rated control supply voltage at AC	5.6 VA
— at 50 Hz	
— at 60 Hz	5.6 VA
at maximum rated control supply voltage at AC	0.7.1/4
— at 50 Hz	6.7 VA
— at 60 Hz	6.7 VA
inductive power factor with the holding power of the coil	
● at 50 Hz	0.9
• at 60 Hz	0.9
closing power of magnet coil at DC	650 W
holding power of magnet coil at DC	7.4 W
closing delay	
• at AC	30 95 ms

* al IDC     * al	a at DC	20 0F ma
**I AC	• at DC	30 95 ms
# # IDC # 0 - 80 ms		40 00
Autolitisty circuit		
Absoling price to		
Internal, permanently connected     Internal, permanently connected		Standard A1 - A2
number of NC contacts for auxiliary contacts instantaneous contact         2           number of NC contracts for auxiliary contacts instantaneous contact         10 A           operational current at AC-15         4 1230 V rated value         8 A           • at 1400 V rated value         1 A           • at 1500 V rated value         1 A           • at 1500 V rated value         10 A           • at 1500 V rated value         10 A           • at 150 V rated value         6 A           • at 160 V rated value         8 A           • at 160 V rated value         8 A           • at 160 V rated value         8 A           • at 120 V rated value         10 A           • at 220 V rated value         10 A           • at 220 V rated value         10 A           • at 125 V rated value         10 A           • at 126 V rated value         10 A           • at 126 V rated value         10 A           • at 126 V rated value		
contact         Commander of NO contacts for auxiliary contacts instantaneous contact         2           contact         Coperational current at AC-15 waximum         10 A           ear at 230 V rated value         6 A           ear at 400 V rated value         2 A           ear at 240 V rated value         1 A           ear at 240 V rated value         1 A           ear at 240 V rated value         10 A           ear at 240 V rated value         6 A           ear at 150 V rated value         6 A           ear 11 10 V rated value         6 A           ear 11 20 V rated value         1 A           ear 12 20 V rated value         2 A           ear 22 20 V rated value         1 A           ear 22 20 V rated value         1 September 10 million (17 V, 1 mA)           UCCSA ratings         1 September 10 million (17 V, 1 mA)           UCCSA ratings         1 September 10 million (17 V, 1 mA) <td></td> <td>lateral, permanently connected</td>		lateral, permanently connected
Operational current at AC-12 maximum   10 A   Operational current at AC-15	contact	
a   220 V rated value	•	2
e. at 230 V rated value	operational current at AC-12 maximum	10 A
• at 400 V rated value	operational current at AC-15	
	at 230 V rated value	6 A
• at 690 V rated value	• at 400 V rated value	3 A
0	• at 500 V rated value	2 A
• at 24 V rated value	at 690 V rated value	1 A
• at 48 V rated value	operational current at DC-12	
• at 60 V rated value	• at 24 V rated value	10 A
• at 110 V rated value	• at 48 V rated value	6 A
• at 125 V rated value	• at 60 V rated value	6 A
	• at 110 V rated value	3 A
• at 600 V rated value	• at 125 V rated value	2 A
at 24 V rated value	• at 220 V rated value	1 A
• at 24 V rated value         2 A           • at 60 V rated value         2 A           • at 1710 V rated value         1 A           • at 1725 V rated value         0.9 A           • at 220 V rated value         0.1 A           • at 260 V rated value         0.1 A           • at 600 V rated value         0.1 A           • at 848 V rated value         1 faulty switching per 100 million (17 V, 1 mA)           • at 480 V rated value         180 A           • at 480 V rated value         180 A           • at 480 V rated value         192 A           • pick demonstrated performance [hp]         60 hp           • for 3-phase AC motor         60 hp           • at 480 V rated value         150 hp           • at 200/208 V rated value         75 hp           • at 400/400 V rated value         150 hp           • at 400/480 V rated value         150 hp           • at 400/480 V rated value         200 hp           contact rating of auxiliary contacts according to UL         A600 / Q600           Short-circuit protection         4600 / Q600           design of the fuse link         6 or short-circuit protection of the main circuit         9C: 500 A (690 V, 100 kA), all 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA), 670 V, 40 KA)           • for short-circuit protection	at 600 V rated value	0.15 A
• at 24 V rated value         2 A           • at 60 V rated value         2 A           • at 1710 V rated value         1 A           • at 1725 V rated value         0.9 A           • at 220 V rated value         0.1 A           • at 260 V rated value         0.1 A           • at 600 V rated value         0.1 A           • at 848 V rated value         1 faulty switching per 100 million (17 V, 1 mA)           • at 480 V rated value         180 A           • at 480 V rated value         180 A           • at 480 V rated value         192 A           • pick demonstrated performance [hp]         60 hp           • for 3-phase AC motor         60 hp           • at 480 V rated value         150 hp           • at 200/208 V rated value         75 hp           • at 400/400 V rated value         150 hp           • at 400/480 V rated value         150 hp           • at 400/480 V rated value         200 hp           contact rating of auxiliary contacts according to UL         A600 / Q600           Short-circuit protection         4600 / Q600           design of the fuse link         6 or short-circuit protection of the main circuit         9C: 500 A (690 V, 100 kA), all 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA), 670 V, 40 KA)           • for short-circuit protection	operational current at DC-13	
at 160 V rated value	at 24 V rated value     at 24 V rated value	10 A
at 110 V rated value at 125 V rated value at 125 V rated value 0.9 A at 220 V rated value 0.1 A  contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA)  UUCSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value 180 A at 800 V rated value 192 A  yielded mechanical performance [hp]  of ro 3-phase AC motor at 220/230 V rated value 75 hp at 4800 V rated value 75 hp at 4800 V rated value 180 Np at 4800 V rated value 75 hp at 4800 V rated value 180 Np at 20/230 V rated value 200 hp  contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of National Contacts 200 Np contact rating of National Contacts 200 Np contact rating of National Contacts 200 Np contact rating	at 48 V rated value	2 A
at 110 V rated value at 125 V rated value at 125 V rated value 0.9 A at 220 V rated value 0.1 A  contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA)  UUCSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value 180 A at 800 V rated value 192 A  yielded mechanical performance [hp]  of ro 3-phase AC motor at 220/230 V rated value 75 hp at 4800 V rated value 75 hp at 4800 V rated value 180 Np at 4800 V rated value 75 hp at 4800 V rated value 180 Np at 20/230 V rated value 200 hp  contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of auxiliary contacts according to UL 200 Np contact rating of National Contacts 200 Np contact rating of National Contacts 200 Np contact rating of National Contacts 200 Np contact rating	at 60 V rated value	2 A
• at 125 V rated value • at 220 V rated value • at 800 V rated value • at 600 V rated value • at 600 V rated value • at 480 V rated value • at 480 V rated value • at 480 V rated value • at 600 V rated value • at 220/230 V rated value • at 220/230 V rated value • at 480 V rated value • at 460/480 V rated value • at 600 V rated value • at 600 V rated value • 60 hp • at 220/230 V rated value • at 460/480 V rated value • at 675/600 V rated value • at 675/600 V rated value • at 675/600 V rated value • oon tact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit • with type of coordination 1 required • with type of assignment 2 required • for short-circuit protection of the auxiliary switch required por for short-circuit protection of the auxiliary switch required results for short-circuit protection of the auxiliary switch required short position  with vertical mounting surface +/-90° rotatable, with vertical mounting surface  #/- 22.5° tiltable to the front and back  fastening method side-by-side mounting  with  with  # 200 mm  ## 240 mm  ## 24		
at 220 V rated value at 600 V rated value  1 faulty switching per 100 million (17 V, 1 mA)  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value  180 A  1		
at 600 V rated value  contact reliability of auxiliary contacts  full-load current (FLA) for 3-phase AC motor  at 480 V rated value at 600 V rated value 180 A  at 600 V rated value 192 A  yielded mechanical performance [hp]  for 3-phase AC motor  at 200/208 V rated value 50 hp  at 460/480 V rated value 75 hp  at 460/480 V rated value 75 hp  at 450/5000 V rated value 75 hp  at 575/600 V rated value 86 hp  at 57		
contact reliability of auxiliary contacts  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switch red value  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 1 mA)  ### Taulty switching per 100 million (17 V, 10 million (17 V		
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  • at 600 V rated value  • at 600 V rated value  • at 200/208 V rated value  • at 220/230 V rated value  — at 220/230 V rated value  — at 240/480 V rated value  — at 460/480 V rated value  — at 575/600 V rated value  — at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  so for short-circuit protection of the auxiliary switch required gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)  • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)  Installation/ mounting/ dimensions  mounting position  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back  fastening method side-by-side mounting  ves  fastening method  screw fixing  height  210 mm  width  depth  202 mm	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V. 1 mA)
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value • at 600 V rated value  • at 200/208 V rated value  • at 200/208 V rated value  — at 220/230 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 675/600 V rated value — with rotection  design of the fuse link  • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required gG: 500 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)  Installation/ mounting/ dimensions  mounting position  with vertical mounting surface +/-90" rotatable, with vertical mounting surface +/- 22.5" tiltable to the front and back fastening method side-by-side mounting screw fixing height 210 mm width depth		, , , , , , , , , , , , , , , , , , ,
at 480 V rated value at 600 V rated value  yielded mechanical performance [hp]  for 3-phase AC motor  at 200/208 V rated value 60 hp  at 220/230 V rated value 75 hp  at 460/480 V rated value 150 hp  at 575/600 V rated value 200 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link for short-circuit protection of the main circuit  with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required gG: 500 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)  for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)  Installation/ mounting/ dimensions  mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back fastening method side-by-side mounting fastening method height 210 mm width depth  180 A  60 b P  60 hp  60		
• at 600 V rated value  yielded mechanical performance [hp]  • for 3-phase AC motor  — at 220/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value 200 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required gG: 500 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)  • for short-circuit protection of the auxiliary switch required gG: 40 O A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)  • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)  Installation/ mounting/ dimensions  mounting position  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  fastening method side-by-side mounting yes fastening method side-by-side mounting width 415 mm  depth 202 mm		180 A
yielded mechanical performance [hp]  • for 3-phase AC motor  — at 200/208 V rated value 60 hp  — at 220/230 V rated value 75 hp  — at 460/480 V rated value 1500 hp  — at 575/600 V rated value 200 hp  contact rating of auxiliary contacts according to UL A600 / Q600  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required gG: 500 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA), kA)  • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)  Installation/ mounting/ dimensions  mounting position  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tilable to the front and back fastening method side-by-side mounting yes fastening method height 210 mm width depth  depth		
• for 3-phase AC motor  — at 200/208 V rated value 60 hp  — at 220/230 V rated value 75 hp  — at 460/480 V rated value 200 hp  contact rating of auxiliary contacts according to UL A600 / Q600  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required gG: 500 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)  • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)  Installation/ mounting/ dimensions  mounting position  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back  fastening method side-by-side mounting screw fixing  height 210 mm  width depth 202 mm		
- at 200/208 V rated value 60 hp - at 220/230 V rated value 75 hp - at 460/480 V rated value 150 hp - at 575/600 V rated value 200 hp  contact rating of auxiliary contacts according to UL A600 / Q600  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit - with type of coordination 1 required gG: 500 A (690 V, 100 kA) - with type of assignment 2 required gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)  • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)  • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)  • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)  • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)  • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)  • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)  • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)  • for short-circuit protection of the auxiliary switch required gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)  • for short-circuit protection of the auxiliary switch required gG: 400 A (690 V, 100 kA)  • for short-circuit protection of the auxiliary switch required gG: 400 A (690 V, 100 kA)  • for short-circuit protection of the auxiliary switch required gG: 400 A (690 V, 100 kA)  • for short-circuit protection of the auxiliary switch required gG: 400 A (690 V, 100 kA)  • for short-circuit protection of the auxiliary switch required gG: 400 A (690 V, 100 kA)  • for short-circuit protection of the auxiliary switch required gG: 400 A (690 V, 100 kA)  • for short-circuit protection of the auxiliary switch required gG: 400 A (690 V, 100 kA)  • for short-circuit protection of the auxiliary switch required gG: 400 A (690 V, 100 kA)  • for short-circuit protection of the auxiliary switch required gG: 400		
- at 220/230 V rated value 75 hp - at 460/480 V rated value 150 hp - at 575/600 V rated value 200 hp  contact rating of auxiliary contacts according to UL A600 / Q600  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  - with type of coordination 1 required gG: 500 A (690 V, 100 kA)  • with type of assignment 2 required gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)  • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)  Installation/ mounting/ dimensions  mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  fastening method side-by-side mounting  Yes  fastening method  height 210 mm  width 145 mm  depth 202 mm	·	60 hp
- at 460/480 V rated value - at 575/600 V rated value 200 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  - with type of coordination 1 required 9G: 500 A (690 V, 100 kA)  - with type of assignment 2 required 9G: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)  • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back  fastening method side-by-side mounting  respectively. The short-circuit protection of the auxiliary switch required  yes  fastening method side-by-side mounting  yes  fastening method 145 mm  depth 202 mm		·
- at 575/600 V rated value 200 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required gG: 500 A (690 V, 100 kA)  — with type of assignment 2 required gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)  • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)  Installation/ mounting/ dimensions  mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  fastening method side-by-side mounting  fastening method  height 210 mm  width 45 mm  depth 202 mm		
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required gG: 500 A (690 V, 100 kA)  • with type of assignment 2 required gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)  • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)  Installation/ mounting/ dimensions  mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back  fastening method side-by-side mounting  fastening method side-by-side mounting  fastening method side-by-side mounting  width 210 mm  width 145 mm  depth 202 mm		
Short-circuit protection         design of the fuse link		
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)  • for short-circuit protection of the auxiliary switch required  gG: 10 A (500 V, 1 kA)  Installation/ mounting/ dimensions  mounting position  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  fastening method side-by-side mounting  Yes  fastening method  screw fixing  height  210 mm  width  145 mm  depth		7,000 / 2,000
for short-circuit protection of the main circuit     — with type of coordination 1 required     — with type of assignment 2 required     — with type of assignment 2 required     — with type of assignment 2 required     — for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions    with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back    fastening method side-by-side mounting   Yes		
— with type of coordination 1 required — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  — with type of assignment 2 required  — with type of coordination 4 (690 V, 100 kA)  — with type of coordination 4 (690 V, 100 kA)  — with type of assignment 2 required  — assignment	_	
with type of assignment 2 required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch required  of or short-circuit protection of the auxiliary switch requ	•	0. 500 A (000 V 400 LA)
kA)  of or short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)  Installation/ mounting/ dimensions  mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  fastening method side-by-side mounting fastening method screw fixing  height 210 mm  width 145 mm  depth 202 mm	**	
Installation/ mounting/ dimensions  mounting position  with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back  fastening method side-by-side mounting fastening method  screw fixing  height  210 mm  width  145 mm  depth  202 mm		kA)
mounting position     with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back       fastening method side-by-side mounting     Yes       fastening method     screw fixing       height     210 mm       width     145 mm       depth     202 mm		gG: 10 A (500 V, 1 kA)
+/- 22.5° tiltable to the front and back  fastening method side-by-side mounting  fastening method  screw fixing  height  210 mm  width  145 mm  depth  202 mm		
fastening method screw fixing height 210 mm width 145 mm depth 202 mm	mounting position	
height         210 mm           width         145 mm           depth         202 mm	fastening method side-by-side mounting	Yes
width 145 mm depth 202 mm	fastening method	screw fixing
depth 202 mm	height	210 mm
	width	145 mm
required spacing	depth	202 mm
	required spacing	

with side-by-side mounting	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
for live parts	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	Connection bar
for auxiliary and control circuit	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals Screw-type terminals
of magnet coil	Screw-type terminals Screw-type terminals
width of connection bar	25 mm
	6 mm
thickness of connection bar	6 mm 11 mm
diameter of holes	
number of holes	1
type of connectable conductor cross-sections	0/0 700 / "
for AWG cables for main contacts	2/0 500 kcmil
connectable conductor cross-section for main contacts	
stranded	70 240 mm²
connectable conductor cross-section for auxiliary contacts	
<ul> <li>solid or stranded</li> </ul>	0.5 4 mm²
finely stranded with core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
<ul> <li>— solid or stranded</li> </ul>	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 1x 12
AWG number as coded connectable conductor cross	
section	40
for auxiliary contacts	18 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
suitable for safety function	Yes
suitability for use safety-related switching OFF	Yes
service life maximum	20 a
test wear-related service life necessary	Yes
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 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN	100 FIT
31920	
100 100 10	
ISO 13849	
device type according to ISO 13849-1	3
	3 Yes
device type according to ISO 13849-1	
device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary	

protection class IP on the front according to IEC 60529

IP00; IP20 with box terminal/cover

touch protection on the front according to IEC 60529

finger-safe, for vertical contact from the front with box terminal/cover

Approvals Certificates

## **General Product Approval**





Confirmation





<u>KC</u>

General Product Approval

EMV

**Functional Saftey** 

**Test Certificates** 





Type Examination Certificate

Type Test Certificates/Test Report

Special Test Certificate

**Miscellaneous** 

Marine / Shipping











**Miscellaneous** 

other

other

Railway

**Environment** 

Confirmation

**Miscellaneous** 

Confirmation

Special Test Certificate

Environmental Confirmations

## Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1064-6AB36-3PA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1064-6AB36-3PA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1064-6AB36-3PA0

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

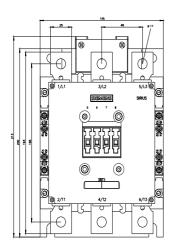
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1064-6AB36-3PA0&lang=en

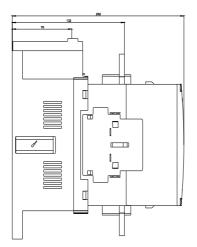
Characteristic: Tripping characteristics, I2t, Let-through current

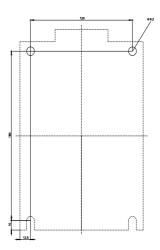
https://support.industry.siemens.com/cs/ww/en/ps/3RT1064-6AB36-3PA0/char

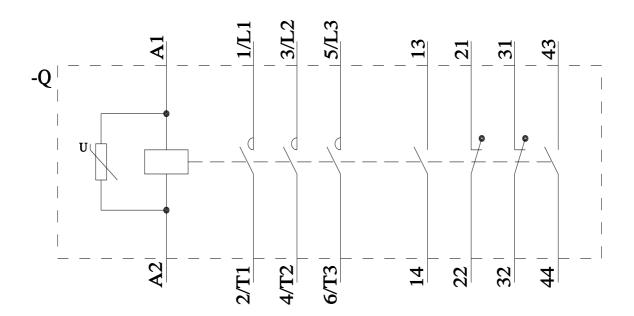
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1064-6AB36-3PA0&objecttype=14&gridview=view1









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