3RT1064-6AF36-3PA0

## **Data sheet**



power contactor, AC-3e/AC-3 225 A, 110 kW / 400 V AC (50-60 Hz) / DC Uc: 110-127 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	
• function module for communication	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
• at AC in hot operating state	51 W
• at AC in hot operating state per pole	17 W
<ul> <li>without load current share typical</li> </ul>	7.4 W
insulation voltage	
• of main circuit with degree of pollution 3 rated value	1 000 V
• of auxiliary circuit with degree of pollution 3 rated value	500 V
surge voltage resistance	
of main circuit rated value	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)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	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)	05/01/2012
SVHC substance name	Blei - 7439-92-1
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 %

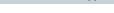
maximum	
ain circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated	275 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	275 A
value	
— up to 690 V at ambient temperature 60 °C rated	250 A
value	400 A
<ul> <li>up to 1000 V at ambient temperature 40 °C rated value</li> </ul>	100 A
— up to 1000 V at ambient temperature 60 °C rated	100 A
value	
• 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
	195 A
at AC-4 at 400 V rated value     at AC-5 sup to 600 V rated value	242 A
at AC-5a up to 690 V rated value     at AC-5b up to 400 V rated value	
at AC-5b up to 400 V rated value	186 A
• at AC-6a	
— 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	225 A
— up to 690 V for current peak value n=20 rated value	225 A
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> </ul>	68 A
• at AC-6a	
	172 A
— up to 230 V for current peak value n=30 rated value	
— 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
<ul> <li>up to 1000 V for current peak value n=30 rated value</li> </ul>	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	
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 rated value	200 A
— at 60 V rated value	200 A
	200 A 18 A
— at 110 V rated value	
— at 220 V rated value	3.4 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.5 A
with 2 current paths in series at DC-1	000 A
— 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	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
with 2 current paths in series at DC-3 at DC-5	V.12 A
— at 24 V rated value	200 A
— at 60 V rated value	200 A 200 A
— at 100 V rated value  — at 110 V rated value	200 A 200 A
— at 110 V rated value  — at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
with 3 current paths in series at DC-3 at DC-5	
— 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	
at 400 V rated value	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
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	150 000 VA
• up to 500 V for current peak value n=20 rated value	190 000 VA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	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  - limited to 1 s a witching at zero current maximum 2007. At Use minimum cross-section acc to AC-1 midel value 2007. At Use minimum cross-section acc to AC-1 midel value 2007. At Use minimum cross-section acc to AC-1 midel value 2007. At Use minimum cross-section acc to AC-1 midel value 2007. At Use minimum cross-section acc to AC-1 midel value 2007. At Use minimum cross-section acc to AC-1 midel value 2007. At Use minimum cross-section acc to AC-1 midel value 2007. At Use minimum cross-section acc to AC-1 midel value 2007. At Use minimum cross-section acc to AC-1 midel value 2009. At Use and the value 2009 at AC-1 midel value 2009. At Use minimum cross-section acc to AC-1 midel value 2009. At Use and the value 2009 at AC-1 midel value 2009 at AC-1 midel value 2009 at AC-1 midel value 2009			
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Filmed to 3 is witching at zero current maximum   2 of 20 A. Use minimum cross-section acc. to AC-1 rated value   1 of 20 is witching at zero current maximum   1 of 20 is A. Use minimum cross-section acc. to AC-1 rated value   1 of 20 is witching at zero current maximum   1 of 20 is A. Use minimum cross-section acc. to AC-1 rated value   1 of 20 is witching at zero current maximum   1 of 20 is AC-1 rated value   1 of 20 is witching at zero current maximum   2 of 20 is AC-1 rated value   1 of 20 is AC-1 rated value   1 of 20 is AC-1 rated value   2 of 20 is AC-2 raximum   2 of 20 is		4 000 A: Use minimum cross-section acc. to AC-1 rated value	
elimeted to 10 a switching at zero current maximum   1 sp7 k, User minimum crosse section acc. to AC-1 rated value   1 sp7 k, User minimum crosse section acc. to AC-1 rated value   1 sp7 k, User minimum crosse section acc. to AC-1 rated value   1 sp7 k, User minimum crosse section acc. to AC-1 rated value   1 sp7 k, User minimum crosse section acc. to AC-1 rated value   1 sp7 k, User minimum crosse section acc. to AC-1 rated value   1 sp7 k, User minimum crosse section acc. to AC-1 rated value   1 sp7 k, User minimum crosse section acc. to AC-1 rated value   1 sp7 k, User minimum crosse section acc. to AC-1 rated value   1 sp7 k, User minimum crosse section acc. to AC-1 rated value   2 sp0 th   1 sp7 k, User minimum crosse section acc. to AC-1 rated value   2 sp0 th   1 sp7 k, User minimum crosse section acc. to AC-1 rated value   2 sp0 th   1 sp7 k, User minimum crosse section acc. to AC-1 rated value   2 sp0 th   1 sp7 k, User minimum crosse section acc. to AC-1 rated value   2 sp0 th   1 sp7 k, User minimum crosse section acc. to AC-1 rated value   2 sp0 th   1 sp7 k, User minimum crosse section acc. to AC-1 rated value   2 sp0 th   1 sp7 k, User minimum cross section acc. to AC-1 rated value   2 sp0 th   1 sp7 k, User minimum cross section acc. to AC-1 rated value   2 sp0 th   1 sp7 k, User minimum cross section acc. to AC-1 rated value   2 sp0 th   1 sp0 t	-		
minetal to 30 a switching at zero current maximum   1374 A, Use minimum cross-section acc. to AC-1 rated value   1144 A; Use minimum cross-section acc. to AC-1 rated value   144 A; Use minimum cross-section acc. to AC-1 rated value   144 A; Use minimum cross-section acc. to AC-1 rated value   144 A; Use minimum cross-section acc. to AC-1 rated value   144 A; Use minimum cross-section acc. to AC-1 rated value   144 A; Use minimum cross-section acc. to AC-1 rated value   2 000 1 m   144 A; Use minimum cross-section acc. to AC-1 rated value   2 000 1 m   144 A; Use minimum cross-section acc. to AC-1 rated value   2 000 1 m   144 A; Use minimum cross-section acc. to AC-1 rated value   2 00 1 m   144 A; Use minimum cross-section acc. to AC-1 rated value   2 00 1 m   144 A; Use minimum cross-section acc. to AC-1 rated value   2 00 1 m   2	-		
Intelial to 80 s switching and zero current maximum   1144 A; Use minimum cross-section acc. to AC-1 rated value   100	-		
	-		
** at AC 2 2000 1/h operating frequency *** at AC-1 maximum 750 1/h *** at AC-2 maximum 500 1/h *** at AC-3 maximum 500 1/h *** at AC-3 maximum 1500 1/h *** at AC-3 maximum 1500 1/h *** at AC-4 maximum 1500 1/h *** at SO 1/t actor value 110 127 V *** at maximum rated control supply voltage at AC 110 127 V *** at maximum rated control supply voltage at AC 110 127 V *** at SO 1/t actor value 110 127 V *** at SO 1/t actor value 110 127 V *** at SO 1/t actor value 110 127 V *** at SO 1/t actor value 110 127 V *** at SO 1/t actor value 110 127 V *** at SO 1/t actor value 110 127 V *** at SO 1/t actor value 110 127 V *** at SO 1/t actor value 110 127 V *** at SO 1/t actor value 110 127 V *** at maximum rated control supply voltage at AC 120 .	·		
Separating frequency		2 000 1/h	
a # AC-1 maximum	• at DC	2 000 1/h	
■ at AC-3 maximum     ■ at AC-3 maximum     ■ at AC-4 maximum     ■ at BC-4 tracted value     ■ at BC bt tracted value     ■ at BC	operating frequency		
■ at AC-3 maximum     at AC-3 maximum     at at AC-3 maximum	at AC-1 maximum	750 1/h	
■ at AC-3e maximum     ■ at AC-4 maximum     ■ at AC-4 maximum     ■ at CC-4 maximum     ■ at CC-4 maximum     ■ at CC-4 maximum     ■ at SO Hz rated value     ■ at SO Hz	• at AC-2 maximum	250 1/h	
■ at AC-4 maximum     Ontrol Circuit Control     Type of Voltage of the control supply voltage     Control supply voltage at AC     ■ at 50 Hz rated value     □ at 50 Hz     ■ at 50 Hz     □ at 50 Hz	• at AC-3 maximum	500 1/h	
type of voltage of the control supply voltage at AC  at 50 Hz rated value at 50 Hz rated value 110 127 V at 60 Hz rated value 110 127 V control supply voltage at AC at 50 Hz rated value 110 127 V control supply voltage at DC arated value 110 127 V control supply voltage at DC arated value 110 127 V control supply voltage at DC arated value 0.8 at 101 127 V control supply voltage rated value of magnet coil at DC initial value 0.8 at 101 127 V control supply voltage rated value of magnet coil at AC at 50 Hz by at 50 Hz at 50 Hz at 50 Hz by at 50 Hz control supply voltage at AC at 50 Hz by at 60 Hz	• at AC-3e maximum	500 1/h	
type of voltage of the control supply voltage at AC         at 50 Hz rated value         110 127 V           e at 50 Hz rated value         110 127 V           control supply voltage at DC         in act 30 Hz rated value           e rated value         110 127 V           operating range factor control supply voltage rated value of magnet coil at Value         0.8           e full-scale value         0.8           operating range factor control supply voltage rated value of magnet coil at AC         0.8 1.1           e at 50 Hz         0.8 1.1           e at 50 Hz         0.8 1.1           e at 150 Hz         0.8 1.1           e at maximum rated control supply voltage at AC         450 Hz           e at minimum rated control supply voltage at AC         450 Hz           e at 50 Hz         590 VA           e at 50 Hz         590 VA           e at 50 Hz         590 VA           e paparent pick-up power of magnet coil at AC         590 VA           e at 50 Hz         590 VA           e paparent pick-up power of magnet coil at AC         590 VA           e at 50 Hz         0.9           e at 60 Hz	• at AC-4 maximum	130 1/h	
control supply voltage at AC	Control circuit/ Control		
	type of voltage of the control supply voltage	AC/DC	
	control supply voltage at AC		
control supply voltage at DC	• at 50 Hz rated value	110 127 V	
• rated value operating range factor control supply voltage rated value of magnet coil at DC  • initial value	at 60 Hz rated value	110 127 V	
operating range factor control supply voltage rated value of magnet coil at DC   0.8   1.1	control supply voltage at DC		
magnet coil at DC	rated value	110 127 V	
• initial value • full-scale value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz 0.8 1.1  design of the surge suppressor apparent pick-up power • at minimum rated control supply voltage at AC — at 50 Hz • at 60 Hz • at maximum rated control supply voltage at DC • at maximum rated control supply voltage at DC • at maximum rated control supply voltage at DC • at maximum rated control supply voltage at DC • at maximum rated control supply voltage at DC • at maximum rated control supply voltage at AC — at 50 Hz • at 60 Hz • at 60 Hz • at maximum rated control supply voltage at AC — at 50 Hz • at maximum rated control supply voltage at AC — at 50 Hz • at maximum rated control supply voltage at AC — at 50 Hz • at maximum rated control supply voltage at AC — at 50 Hz • at 60 Hz • at			
• full-scale value   1.1		0.0	
operating range factor control supply voltage rated value of magnet coil at AC			
magnet coll at AC         0.8 1.1           • 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         400 VA           • at minimum rated control supply voltage at AC         490 VA           — at 60 Hz         490 VA           • at maximum rated control supply voltage at AC         590 VA           — at 50 Hz         590 VA           — at 50 Hz         590 VA           • at 50 Hz         590 VA           • at 50 Hz         590 VA           • at 60 Hz         0.9           • at 60 Hz         0.9           • at 60 Hz         0.9           • at minimum rated control supply voltage at DC         4.1 VA           • at minimum rated control supply voltage at DC         7.4 VA           • at minimum rated control supply voltage at AC         5.6 VA           — at 60 Hz         5.6 VA           • at maximum rated control supply voltage at AC         6.7 VA           — at 60 Hz         6.7 VA           • at maximum rated control supply voltage at AC         6.7 VA           — at 60 Hz         6.7 VA           • at 60 Hz         6.7 VA           • at 60		1.1	
• at 60 Hz   0.8 1.1			
design of the surge suppressor   with varistor   apparent plck-up power   at minimum rated control supply voltage at AC   at 50 Hz   apol VA	• at 50 Hz	0.8 1.1	
apparent pick-up power	● at 60 Hz	0.8 1.1	
at minimum rated control supply voltage at AC — at 50 Hz — at 60 Hz 490 VA 480 VA 490 VA 480 VA 490	design of the surge suppressor	with varistor	
- at 50 Hz	apparent pick-up power		
- at 60 Hz  - at 60 Hz  - at 60 Hz  - at 50 Hz  - at 50 Hz  apparent pick-up power of magnet coil at AC  - at 50 Hz  at 60 Hz  - at 50 Hz  sop VA  apparent pick-up power of magnet coil at AC  - at 50 Hz  - at 60 Hz  - at 60 Hz  - at 60 Hz  590 VA  sinductive power factor with closing power of the coil  - at 50 Hz  - at 60 Hz  0.9  apparent holding power  - at minimum rated control supply voltage at DC  - at maximum rated control supply voltage at DC  - at 50 Hz  - at 60 Hz  - at 50 Hz  - at 60	<ul> <li>at minimum rated control supply voltage at AC</li> </ul>		
• at maximum rated control supply voltage at AC  — at 50 Hz  apparent pick-up power of magnet coil at AC  • at 50 Hz  • at 60 Hz  • at 60 Hz  • at 50 Hz  • at 60 Hz  • at 50 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at 60 Hz  • at minimum rated control supply voltage at DC  • at maximum rated control supply voltage at DC  • at minimum rated control supply voltage at DC  • at minimum rated control supply voltage at AC  — at 50 Hz  — at 60 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz  • at most Hz  — at 60 Hz  • at 60 Hz	— at 50 Hz	490 VA	
- at 60 Hz	— at 60 Hz	490 VA	
### Act 50 Hz  apparent pick-up power of magnet coil at AC  • at 50 Hz • at 60 Hz • at 60 Hz  • at 50 Hz • at 60 Hz  • at 50 Hz • at 60 Hz  apparent holding power  • at minimum rated control supply voltage at DC • at maximum rated control supply voltage at AC  — at 50 Hz — at 60 Hz   apparent holding power  • at minimum rated control supply voltage at DC  • at minimum rated control supply voltage at AC — at 50 Hz — at 60 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz — at 60 Hz  inductive power factor with the holding power of the coil  • at 50 Hz • at 60 Hz  closing power of magnet coil at DC  650 W  holding power of magnet coil at DC  folioging delay    **Ta VA**  *	<ul> <li>at maximum rated control supply voltage at AC</li> </ul>		
apparent pick-up power of magnet coil at AC  • at 50 Hz • at 60 Hz  inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz  • at 50 Hz • at 60 Hz  • at 60 Hz  apparent holding power  • at minimum rated control supply voltage at DC • at maximum rated control supply voltage at DC  • at minimum rated control supply voltage at DC  • at minimum rated control supply voltage at DC  • at minimum rated control supply voltage at AC  - at 50 Hz - at 60 Hz  • at maximum rated control supply voltage at AC  - at 50 Hz - at 60 Hz  • at so Hz - at 60 Hz  inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz  • at 60 Hz  • at 60 Hz  closing power of magnet coil at DC  foliong power of magnet coil at DC  foliong power of magnet coil at DC  foliong delay			
at 50 Hz at 60 Hz 590 VA  inductive power factor with closing power of the coil at 50 Hz at 60 Hz at 60 Hz at 60 Hz at minimum rated control supply voltage at DC at maximum rated control supply voltage at DC at minimum rated control supply voltage at AC at 50 Hz at maximum rated control supply voltage at AC at 60 Hz at maximum rated control supply voltage at AC at 50 Hz at 50 Hz at 60 Hz 6.7 VA at 60 Hz at 50 Hz at 60 Hz at 50 Hz at 60 Hz  closing power of magnet coil at DC 650 W holding power of magnet coil at DC foliage delay		590 VA	
e at 60 Hz  inductive power factor with closing power of the coil e at 50 Hz e at 60 Hz  o.9  apparent holding power e at minimum rated control supply voltage at DC e at maximum rated control supply voltage at DC  - at 50 Hz - at 60 Hz  e at minimum rated control supply voltage at AC - at 50 Hz - at 60 Hz  e at maximum rated control supply voltage at AC e at maximum rated control supply voltage at AC - at 50 Hz - at 60 Hz  inductive power factor with the holding power of the coil e at 50 Hz e at 60 Hz  inductive power factor with the holding power of the coil e at 50 Hz e at 60 Hz  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay			
inductive power factor with closing power of the coil  at 50 Hz  at 60 Hz  0.9  apparent holding power  at minimum rated control supply voltage at DC  at maximum rated control supply voltage at DC  at minimum rated control supply voltage at DC  at minimum rated control supply voltage at AC  at minimum rated control supply voltage at AC  at 50 Hz  at maximum rated control supply voltage at AC  at 50 Hz  at maximum rated control supply voltage at AC  at 50 Hz  at 60 Hz  6.7 VA  inductive power factor with the holding power of the coil  at 50 Hz  at 60 Hz  0.9  closing power of magnet coil at DC  folioning delay	*****		
at 50 Hz at 60 Hz  at minimum rated control supply voltage at DC at maximum rated control supply voltage at DC at minimum rated control supply voltage at DC at minimum rated control supply voltage at DC  at minimum rated control supply voltage at AC  at 50 Hz at 60 Hz  at 60 Hz  at 50 Hz at 60 Hz  6.7 VA  and 60 Hz  6.7 VA  inductive power factor with the holding power of the coil at 50 Hz at 60 Hz  0.9  closing power of magnet coil at DC  holding power of magnet coil at DC  holding power of magnet coil at DC  reflections at 50 W  closing delay		590 VA	
apparent holding power  at minimum rated control supply voltage at DC  at maximum rated control supply voltage at DC  at maximum rated control supply voltage at DC  at 50 Hz  at 60 Hz  at 60 Hz  5.6 VA  at maximum rated control supply voltage at AC  at 50 Hz  at 50 Hz  at 50 Hz  at 50 Hz  at 60 Hz  6.7 VA  inductive power factor with the holding power of the coil  at 50 Hz  at 60 Hz  6.9 VA  closing power of magnet coil at DC  folion of magnet coil at DC  holding power of magnet coil at DC  closing delay	-	0.0	
apparent holding power  • at minimum rated control supply voltage at DC  • at maximum rated control supply voltage at DC  apparent holding power  • at minimum rated control supply voltage at AC  — at 50 Hz — at 60 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz — at 50 Hz — at 60 Hz  6.7 VA  inductive power factor with the holding power of the coil  • at 50 Hz • at 60 Hz  0.9  closing power of magnet coil at DC  holding power of magnet coil at DC  holding power of magnet coil at DC  closing delay			
at minimum rated control supply voltage at DC at maximum rated control supply voltage at DC  apparent holding power  at minimum rated control supply voltage at AC  - at 50 Hz - at 60 Hz  at maximum rated control supply voltage at AC  - at 50 Hz - at 60 Hz  6.7 VA  inductive power factor with the holding power of the coil  at 50 Hz at 60 Hz  0.9  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay  6.1 VA  7.4 VA  6.7 VA  6.7 VA  6.9  6.9  6.9  6.9  6.9  6.9  6.9  6.		0.9	
apparent holding power  at minimum rated control supply voltage at AC  — at 50 Hz — at 60 Hz  at maximum rated control supply voltage at AC  — at 50 Hz — at 50 Hz — at 50 Hz — at 60 Hz  6.7 VA  inductive power factor with the holding power of the coil  at 50 Hz at 60 Hz  o at 60 Hz  6.7 VA  inductive power factor with the holding power of the coil  at 50 Hz o at 60 Hz  650 W  holding power of magnet coil at DC  7.4 VA		6 1 VA	
apparent holding power  • at minimum rated control supply voltage at AC  — at 50 Hz — at 60 Hz  • at maximum rated control supply voltage at AC  — at 50 Hz — at 60 Hz  inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz  o at 60 Hz  closing power of magnet coil at DC  folioning power of magnet coil at DC  closing delay			
at minimum rated control supply voltage at AC  — at 50 Hz — at 60 Hz  at maximum rated control supply voltage at AC  — at 50 Hz — at 60 Hz  6.7 VA — at 60 Hz  inductive power factor with the holding power of the coil at 50 Hz at 60 Hz  0.9  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay  5.6 VA  6.7 VA  6.7 VA  6.7 VA  6.7 VA  7.4 W	· · · · · · ·	1.7 VA	
- at 50 Hz - at 60 Hz  • at maximum rated control supply voltage at AC - at 50 Hz - at 60 Hz  6.7 VA - at 60 Hz  inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay			
- at 60 Hz  • at maximum rated control supply voltage at AC  - at 50 Hz  - at 60 Hz  6.7 VA  inductive power factor with the holding power of the coil  • at 50 Hz  • at 60 Hz  0.9  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay  5.6 VA  6.7 VA  0.9  6.7 VA  6.7 VA  7.4 W		5.6 VA	
at maximum rated control supply voltage at AC  — at 50 Hz — at 60 Hz  inductive power factor with the holding power of the coil  at 50 Hz at 60 Hz  0.9  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay  6.7 VA  0.9  0.9  7.4 W			
- at 50 Hz - at 60 Hz 6.7 VA  inductive power factor with the holding power of the coil			
- at 60 Hz  inductive power factor with the holding power of the coil  • at 50 Hz • at 60 Hz  Closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay  6.7 VA  0.9  0.9  7.4 W		6.7 VA	
inductive power factor with the holding power of the coil  • at 50 Hz • at 60 Hz  0.9  closing power of magnet coil at DC  holding power of magnet coil at DC  7.4 W  closing delay			
at 50 Hz  at 60 Hz  0.9  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay  0.9  7.4 W			
closing power of magnet coil at DC 650 W holding power of magnet coil at DC 7.4 W closing delay		0.9	
holding power of magnet coil at DC 7.4 W closing delay			
holding power of magnet coil at DC 7.4 W closing delay			
closing delay		7.4 W	
● at AC 30 95 ms			
	• at AC	30 95 ms	

• at DC	30 95 ms
opening delay	
• at AC	40 80 ms
• at DC	40 80 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 A
• at 400 V rated value	3 A
at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
at 48 V rated value	6 A
at 60 V rated value	6 A
at 110 V rated value	3 A
at 125 V rated value	2 A
at 220 V rated value	1 A
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 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
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	readity switching per 100 million (17 V, 1 mill)
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	180 A
at 600 V rated value     at 600 V rated value	192 A
yielded mechanical performance [hp]	192 A
• for 3-phase AC motor	
•	60 hp
— at 200/208 V rated value — at 220/230 V rated value	60 hp
— at 460/480 V rated value	75 hp
— at 460/480 V rated value  — at 575/600 V rated value	150 hp
	200 hp
contact rating of auxiliary contacts according to UL Short-circuit protection	A600 / Q600
:	
design of the fuse link	
for short-circuit protection of the main circuit	Q 500 A (000 V 400 LA)
— 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	screw fixing
	Yes
side-by-side mounting	
• side-by-side mounting  height	210 mm
<u> </u>	210 mm 145 mm
height	
height width	145 mm

— forwards	20 mm	
— upwards	10 mm	
— downwards	10 mm	
— at the side	0 mm	
for grounded parts		
— 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	
of magnet coil	Screw-type terminals	
width of connection bar	25 mm	
thickness of connection bar	6 mm	
diameter of holes	11 mm	
number of holes	1	
	ı	
type of connectable conductor cross-sections  • for AWG cables for main contacts	2/0 500 kcmil	
connectable conductor cross-section for main contacts	2/0 500 KCITIII	
stranded	70 240 mm²	
connectable conductor cross-section for auxiliary contacts	70 240 Hilli	
solid or stranded	0.5 4 mm²	
	0.5 2.5 mm <sup>2</sup>	
finely stranded with core end processing	0.5 2.5 !!!!!	
type of connectable conductor cross-sections		
• for auxiliary contacts	0: (0.5	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)	
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)	
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 1x 12	
AWG number as coded connectable conductor cross section		
for auxiliary contacts	18 14	
Safety related data		
B10 value with high demand rate according to SN 31920	1 000 000	
suitability for use safety-related switching OFF	Yes	
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	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>



	Functional Safety/Safety of Ma- chinery	Declaration of Conformity	Test Certificates
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## Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

**Test Certificates** 

Marine / Shipping

**Miscellaneous** 











other Railway

<u>Confirmation</u> <u>Miscellaneous</u> <u>Miscellaneous</u> <u>Confirmation</u> <u>Special Test Certificate</u>

## 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=3RT1064-6AF36-3PA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1064-6AF36-3PA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1064-6AF36-3PA0

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

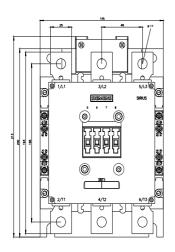
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1064-6AF36-3PA0&lang=en

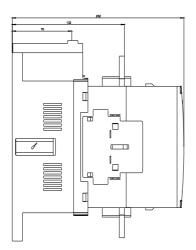
Characteristic: Tripping characteristics, I2t, Let-through current

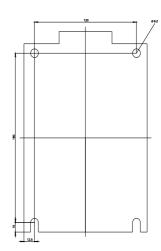
https://support.industry.siemens.com/cs/ww/en/ps/3RT1064-6AF36-3PA0/char

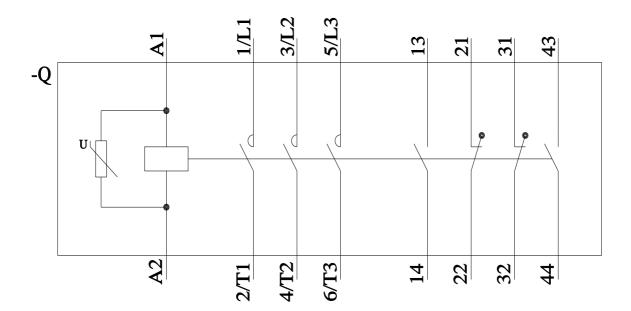
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1064-6AF36-3PA0&objecttype=14&gridview=view1









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