## **SIEMENS**

Data sheet 3RT1076-6SF36

0101110



power contactor, AC-3e/AC-3 500 A, 250 kW / 400 V AC (50-60 Hz) / DC 96-127 V x (0.8-1.1) F-PLC input 24 V DC 3-pole, auxiliary contacts 2 NO + 2 NC drive: electronic 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	S12
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>	165 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	55 W
<ul> <li>without load current share typical</li> </ul>	3.6 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
• of auxiliary circuit with degree of pollution 3 rated value	500 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
of auxiliary circuit rated value	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)	03/01/2017
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Melamine - 108-78-1 Perfluorobutane sulfonic acid (PFBS) and its salts
Weight	10.43 kg
Ambient conditions	

installation altitude at height above sea level maximum	2 000 m
ambient temperature	2 000 111
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	30 /0
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>	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>	610 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	610 A
value	010 A
<ul> <li>up to 690 V at ambient temperature 60 °C rated value</li> </ul>	550 A
<ul> <li>up to 1000 V at ambient temperature 40 °C rated value</li> </ul>	200 A
— up to 1000 V at ambient temperature 60 °C rated value	200 A
• at AC-3	
— at 400 V rated value	500 A
— at 500 V rated value	500 A
— at 690 V rated value	450 A
— at 1000 V rated value	180 A
• at AC-3e	
— at 400 V rated value	500 A
— at 500 V rated value	500 A
— at 690 V rated value	450 A
— at 1000 V rated value	180 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	430 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	536 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	415 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	414 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	414 A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	414 A
— up to 690 V for current peak value n=20 rated value	414 A
— up to 1000 V for current peak value n=20 rated value	180 A
• at AC-6a	270 A
— up to 230 V for current peak value n=30 rated value	276 A
— up to 400 V for current peak value n=30 rated value	276 A
— up to 500 V for current peak value n=30 rated value	276 A
— up to 690 V for current peak value n=30 rated value	276 A
— up to 1000 V for current peak value n=30 rated value	180 A
minimum cross-section in main circuit at maximum AC-1 rated value	370 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	175 A
at 690 V rated value	150 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	400 A
— at 60 V rated value	330 A
— at 110 V rated value	33 A
— at 220 V rated value	3.8 A

— at 440 V rated value	0.9 A
— at 600 V rated value	0.6 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	400 A
— at 60 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	4 A
— at 600 V rated value	2 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	400 A
— at 60 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	11 A
— at 600 V rated value	5.2 A
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	400 A
— at 60 V rated value	11 A
— at 110 V rated value	3 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.18 A
— at 600 V rated value	0.125 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	400 A
— at 60 V rated value	400 A
— at 110 V rated value	400 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	400 A
— at 60 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 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	250 kW
• at AC-3	
— at 230 V rated value	160 kW
— at 400 V rated value	250 kW
— at 500 V rated value	315 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
• at AC-3e	
— at 230 V rated value	160 kW
— at 400 V rated value	250 kW
— at 500 V rated value	315 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
operating power for approx. 200000 operating cycles at AC-	
4 a at 400 V rated value	OO NA
at 400 V rated value     at 600 V rated value	98 kW
at 690 V rated value	148 kW
operating apparent power at AC-6a	160 M/A
up to 230 V for current peak value n=20 rated value	160 kVA
up to 400 V for current peak value n=20 rated value	280 kVA
up to 500 V for current peak value n=20 rated value	350 kVA
up to 690 V for current peak value n=20 rated value	490 kVA
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> </ul>	310 kVA

operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	110 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	190 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	230 kVA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	330 kVA
up to 1000 V for current peak value n=30 rated value	310 kVA
short-time withstand current in cold operating state up to 40 °C	
limited to 1 s switching at zero current maximum	7 484 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	7 484 A; Use minimum cross-section acc. to AC-1 rated value
limited to 10 s switching at zero current maximum	5 978 A; Use minimum cross-section acc. to AC-1 rated value
limited to 30 s switching at zero current maximum	3 765 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	2 887 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	500 1/h
• at DC	500 1/h
operating frequency	
• at AC-1 maximum	200 1/h
at AC-2 maximum	170 1/h
• at AC-3 maximum	200 1/h
at AC-3e maximum	200 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	96 127 V
at 60 Hz rated value	96 127 V
control supply voltage at DC rated value	96 127 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
type of PLC-control input according to IEC 60947-1	Type 1
consumed current at PLC-control input according to IEC 60947-1 maximum	14 mA
voltage at PLC-control input rated value	24 V
operating range factor of the voltage at PLC-control input	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	560 VA
— at 60 Hz	560 VA
<ul> <li>at maximum rated control supply voltage at AC</li> </ul>	
— at 60 Hz	750 VA
— at 50 Hz	750 VA
apparent pick-up power of magnet coil at AC	
• at 50 Hz	750 VA
• at 60 Hz	750 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.8
apparent holding power	0.1/4
at minimum rated control supply voltage at DC	3 VA
at maximum rated control supply voltage at DC	3.6 VA
apparent holding power	
at minimum rated control supply voltage at AC	FOVA
— at 50 Hz	5.6 VA
— at 60 Hz	5.6 VA

— at 50 Fz — 10 Colt 2 9 VA	at maximum rated control supply voltage at AC	
		9 VA
Inductive power factor with the holding power of the coil  I old Sid 17:  I old Sid 17:  I old Sid 17:  I old Sid 17:  I old Sid W  Sid		
* at 50 Hz		
e at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing power of magnet coil at DC 3 8 W e at AC		0.5
Closing power of magnet coil at DC		
Debting power of magnet coil at DC		
Closing delay   at AC   60 75 ms   60 7		
		0.0 11
		60 75 ms
opening delay  at AC  at AC  at AC  at AC  at AC  115130 ms  recovery time after power failure typical  2 s  arching time  1015 ms  control version of the switch operating mechanism  Aurolling circuit  number of NC contacts for auxiliary contacts instantaneous contact  contact  number of NO contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  accordant  10 A  operational current at AC-12 maximum  10 A  operational current at AC-12 maximum  10 A  operational current at AC-12 maximum  10 A  operational current at AC-13 maximum  10 A  operational current at DC-12  at 20 V rated value  1 A  1 A  1 A C C C C C C C C C C C C C C C C C C		
* at PC	***	
eat DC		115 130 ms
recovery time after power failure typical arcing time control version of the switch operating mechanism Fail-safe PLC input (F-PLC-IN)  Auxillary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous operational current at AC-12 maximum 10 A operational current at AC-15  at 230 V rated value 5 A at 500 V rated value 1 A at 600 V rated value 5 A at 100 V rated value 6 A 6 A 6 A 6 A 6 A 7 A Tated value 6 A 6 A 7 A Tated value 6 A 6 A 7 A Tated value 7 A Tated value 8 A To Tated value 9 A To Tated value 1 A 7 A Tated value 9 A To Tated value 1 A 7 A Tated value 9 A Tated value 1 A Tated value 9 A Ta		
arcing time		
Control version of the switch operating mechanism		
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum 10 A operational current at AC-15  at 230 V rated value 5 AC 40 V rated value 10 A 5 AC 40 V rated value 11 A 6 A 5 A 6 A 6 A 7 A 7 A 6 A 7 A 7 A 6 A 7 A 6 A 7 A 6 A 7 A 6 A 7 A 6 A 7 A 6 A 7 A 6 A 7 A 6 A 7 A 6 A 7 A 6 A 7 A 6 A 7 A 6 A 7 A 6 A 7 A 6 A 7 A 6 A 7 A 6 A 7 A 6 A 6		
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum  10 A  operational current at AC-12 maximum  10 A  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 100 V rated value • at 125 V rated value • at 200 V rated value • at 200 V rated value • at 400 V rated value • at 57860		. a sa.s . 20pat ( 20)
number of NO contacts for auxillary contacts instantaneous contact of contact	number of NC contacts for auxiliary contacts instantaneous	2
a   230 V rated value	number of NO contacts for auxiliary contacts instantaneous	2
* at 230 V rated value	operational current at AC-12 maximum	10 A
* at 400 V rated value 2 A * at 500 V rated value 2 A * at 600 V rated value 1 A  operational current at DC-12 * at 24 V rated value 6 A * at 60 V rated value 6 A * at 60 V rated value 6 A * at 110 V rated value 6 A * at 110 V rated value 3 A * at 125 V rated value 1 A * at 220 V rated value 1 A * at 600 V rated value 2 A * at 48 V rated value 2 A * at 20 V rated value 1 A * at 600 V rated value 2 A * at 48 V rated value 2 A * at 400 V rated value 2 A * at 400 V rated value 2 A * at 4110 V rated value 2 A * at 110 V rated value 2 A * at 110 V rated value 1 A * at 125 V rated value 2 A * at 110 V rated value 1 A * at 125 V rated value 1 A * at 600 V rated value	operational current at AC-15	
	at 230 V rated value	6 A
• at 690 V rated value 1 DC-12  • at 24 V rated value 6 A • at 48 V rated value 6 A • at 80 V rated value 6 A • at 80 V rated value 6 A • at 100 V rated value 3 A • at 125 V rated value 1 A • at 220 V rated value 1 A • at 220 V rated value 1 A • at 600 V rated value 2 A • at 24 V rated value 2 A • at 34 V rated value 2 A • at 600 V rated value 2 A • at 600 V rated value 2 A • at 600 V rated value 2 A • at 110 V rated value 2 A • at 110 V rated value 1 A • at 125 V rated value 1 A • at 126 V rated value 1 A • at 600 V rated V rat	at 400 V rated value	3 A
operational current at DC-12	at 500 V rated value	2 A
	at 690 V rated value	1 A
at 48 V rated value     at 60 V rated value     at 110 V rated value     at 110 V rated value     at 125 V rated value     at 1220 V rated value     at 220 V rated value     at 600 V rated value     at 600 V rated value     at 600 V rated value     at 24 V rated value     at 48 V rated value     at 48 V rated value     at 60 V rated value     at 60 V rated value     at 110 V rated value     at 110 V rated value     at 110 V rated value     at 120 V rated value     at 220 V rated value     at 220 V rated value     at 220 V rated value     at 200 V rated value     at 80 V rated value     at 70 V rated value     at 48 V rated value     at 50 V rated value     at 60 V	operational current at DC-12	
at 60 V rated value     at 110 V rated value     at 120 V rated value     at 1220 V rated value     at 220 V rated value     at 600 V rated value     at 600 V rated value     at 24 V rated value     at 48 V rated value     at 48 V rated value     at 110 V rated value     at 48 V rated value     at 110 V rated value     at 110 V rated value     at 110 V rated value     at 1220 V rated value     at 1220 V rated value     at 220 V rated value     at 220 V rated value     at 280 V rated value     at 600 V rated value     at 700 V rated value     at 600 V rated value     at 700/208 V rated value     at 250/230 V rated value     at 250/230 V rated value     at 460/480 V rated value     at 460/480 V rated value     at 600 V peton V rated value     contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection  design of the fuse link	• at 24 V rated value	10 A
• at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value  operational current at DC-13 • at 24 V rated value • at 80 V rated value • at 60 V rated value • at 60 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 250 V rated value • at 260 V rated value • at 60 V rated value • at 600 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 valu	• at 48 V rated value	6 A
	<ul><li>at 60 V rated value</li></ul>	6 A
• at 220 V rated value • at 600 V rated value • at 600 V rated value  operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 220/230 V rated value • at 480 V rated value • at 480 V rated value • at 600 V rate	<ul> <li>at 110 V rated value</li> </ul>	3 A
at 24 V rated value at 48 V rated value at 60 V rated value at 60 V rated value at 60 V rated value at 10 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 120 V rated value at 20 V rated value at 20 V rated value at 600 V rated value at 20 V rated value at 600 V rated va	• at 125 V rated value	2 A
operational current at DC-13  • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 10 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value  contact reliability of auxiliary contacts  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  for 3-phase AC motor - 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 460/480 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 600/480 V rated value - at 60/480 V rated value - at 200/230 V rated value - at 60/480 V rated value - at 200/230 V rated value - at 60/480 V rated value -	• at 220 V rated value	1 A
at 24 V rated value 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 2 A at 120 V rated value 3 A at 600 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)  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value 477 A at 80 V rated value 472 A  yielded mechanical performance [hp]  for 3-phase AC motor  - at 200/208 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 460/480 V rated value - at 575/600 V rated value - at 575/600 V rated value - at 6800 V rated value - at	at 600 V rated value	0.15 A
at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 200 V rated value at 200 V rated value at 800 V rated value  o.1 A  contact reliability of auxiliary contacts  I 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 477 A at 600 V rated value 477 A  i at 600 V rated value 472 A  yielded mechanical performance [hp]  of or 3-phase AC motor  - at 200/208 V rated value - at 200/208 V rated value - at 460/480 V rated value 400 hp - at 575/600 V rated value 400 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  design of the fuse link	operational current at DC-13	
at 10 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 600 V rated value bull-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value bull-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value bull-load current (FLA) for 3-phase AC motor at 480 V rated value bull-load current (FLA) for 3-phase AC motor at 600 V rated value bull-load current (FLA) for 3-phase AC motor at 600 V rated value bull-load current (FLA) for 3-phase AC motor at 600 V rated value bull-load current (FLA) for 3-phase AC motor at 600 V rated value bull-load current (FLA) for 3-phase AC motor bull-l	• at 24 V rated value	10 A
at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 80 V rated value bfor 3-phase AC motor at 200/208 V rated value at 200/208 V rated value at 200/208 V rated value at 460/480 V rated value at 575/600 V rated value bfor 3-phase AC motor at 200/208 V rated value at 600/400 V rated value bfor 3-phase AC motor at 200/208 V rated value bfor 3-phase AC motor at 200/208 V rated value bfor 400 hp bfor 500 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  design of the fuse link	<ul> <li>at 48 V rated value</li> </ul>	2 A
at 125 V rated value at 220 V rated value at 600 V rated value  outside the first office of the miniature circuit protection of the auxiliary circuit up to 230 V design of the fuse link  out 1 A	<ul> <li>at 60 V rated value</li> </ul>	2 A
at 220 V rated value at 600 V rated value  contact reliability of auxiliary contacts  1 faulty switching per 100 million (17 V, 1 mA)  ULICSA ratings  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  at 600 V rated value  yielded mechanical performance [hp]  af 220/238 V rated value  - at 200/208 V rated value  - at 460/480 V rated value  - at 460/480 V rated value  - at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  design of the fuse link	• at 110 V rated value	1 A
otate treliability of auxiliary contacts  I faulty switching per 100 million (17 V, 1 mA)  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor     otat 480 V rated value     at 600 V rated value     interpretation of the miniature circuit broaker for short-circuit protection of the auxiliary circuit up to 230 V design of the fuse link      1 faulty switching per 100 million (17 V, 1 mA)      1 faulty switching per 100 million (17 V, 1 mA)      1 faulty switching per 100 million (17 V, 1 mA)      1 faulty switching per 100 million (17 V, 1 mA)      1 faulty switching per 100 million (17 V, 1 mA)      1 faulty switching per 100 million (17 V, 1 mA)      1 faulty switching per 100 million (17 V, 1 mA)      1 faulty switching per 100 million (17 V, 1 mA)      1 faulty switching per 100 million (17 V, 1 mA)      477 A      472 A      yielded mechanical performance [hp]      • for 3-phase AC motor      -at 200/208 V rated value     -at 200/208 V rated value     -at 220/230 V rated value     -at 460/480 V rated value     -at 460/480 V rated value     -at 460/480 V rated value     -at 575/600 V rated value     500 hp      contact rating of auxiliary contacts according to UL      A600 / P600  Short-circuit protection      design of the miniature circuit breaker for short-circuit protection     of the auxiliary circuit up to 230 V	• at 125 V rated value	0.9 A
contact reliability of auxiliary contacts  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  472 A  yielded mechanical performance [hp]  • for 3-phase AC motor  — at 200/208 V rated value  — at 220/230 V rated value  — at 460/480 V rated value  — at 460/480 V rated value  — at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  design of the fuse link	• at 220 V rated value	0.3 A
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value 477 A  • at 600 V rated value 472 A  yielded mechanical performance [hp]  • for 3-phase AC motor  — at 200/208 V rated value 150 hp  — at 220/230 V rated value 200 hp  — at 460/480 V rated value 400 hp  — at 575/600 V rated value 500 hp  contact rating of auxiliary contacts according to UL A600 / P600  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  design of the fuse link	at 600 V rated value	0.1 A
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  472 A  yielded mechanical performance [hp]  • for 3-phase AC motor  — at 200/208 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  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  design of the fuse link	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
at 480 V rated value  at 600 V rated value  yielded mechanical performance [hp]  for 3-phase AC motor	UL/CSA ratings	
■ at 600 V rated value      yielded mechanical performance [hp]      ● for 3-phase AC motor      — at 200/208 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      contact rating of auxiliary contacts according to UL      Short-circuit protection  design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  design of the fuse link  472 A  472	full-load current (FLA) for 3-phase AC motor	
yielded mechanical performance [hp]  ● for 3-phase AC motor  — at 200/208 V rated value — at 220/230 V rated value 200 hp — at 460/480 V rated value 400 hp — at 575/600 V rated value 500 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  design of the fuse link	• at 480 V rated value	477 A
● for 3-phase AC motor  — at 200/208 V rated value — at 220/230 V rated value 200 hp — at 460/480 V rated value 400 hp — at 575/600 V rated value 500 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  design of the fuse link		472 A
- at 200/208 V rated value - at 220/230 V rated value 200 hp - at 460/480 V rated value 400 hp - at 575/600 V rated value 500 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  design of the fuse link		
- at 220/230 V rated value 200 hp - at 460/480 V rated value 400 hp - at 575/600 V rated value 500 hp  contact rating of auxiliary contacts according to UL A600 / P600  Short-circuit protection design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  design of the fuse link	·	
— at 460/480 V rated value 400 hp — at 575/600 V rated value 500 hp  contact rating of auxiliary contacts according to UL A600 / P600  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  design of the fuse link		
— at 575/600 V rated value 500 hp  contact rating of auxiliary contacts according to UL A600 / P600  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  design of the fuse link		
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  design of the fuse link  A600 / P600  C characteristic: 10 A; 0.4 kA		
Short-circuit protection  design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  design of the fuse link		·
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  design of the fuse link  C characteristic: 10 A; 0.4 kA		A600 / P600
design of the fuse link	design of the miniature circuit breaker for short-circuit protection	C characteristic: 10 A; 0.4 kA
	<u> </u>	
	_	

<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 630 A (690 V, 100 kA)		
with type of assignment 2 required	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 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	214 mm		
width	160 mm		
depth	225 mm		
required spacing			
<ul><li>with side-by-side mounting</li></ul>			
— 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		
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals		
<ul> <li>at contactor for auxiliary contacts</li> </ul>	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		
type of connectable conductor cross-sections			
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			
• solid or stranded	0.5 4 mm²		
finely stranded with core end processing	0.5 2.5 mm <sup>2</sup>		
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)		
— 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		
<u> </u>	IV 17		
Safety related data			
product function	V		
mirror contact according to IEC 60947-4-1	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	N.		
safe state	Yes off		

test wear-related service life necessary	Yes
stop category according to IEC 60204-1	0
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 31920	100 FIT
MTBF	75 a
IEC 62061	
Safety Integrity Level (SIL) according to IEC 62061	SIL 2
PFHD with high demand rate according to IEC 62061	4.5E-7 1/h
ISO 13849	
performance level (PL) according to ISO 13849-1	PL c
category according to ISO 13849-1	2
device type according to ISO 13849-1	1
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
Safety Integrity Level (SIL) according to IEC 61508	2
safety device type according to IEC 61508-2	Type B
PFHD with high demand rate according to IEC 61508	4.5E-7 1/h
PFDavg with low demand rate according to IEC 61508	0.007
Safe failure fraction (SFF)	93 %
hardware fault tolerance according to IEC 61508	0
T1 value of service life according to IEC 61508	20 a
Electrical Safety	
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** 











**EMV** 

Functional Saftey	Test Certificates		other		
Type Examination Certificate	Type Test Certificates/Test Report	Special Test Certificate  ate	Miscellaneous	Confirmation	Miscellaneous

Railway Environment

**Special Test Certific-Environmental Con-**<u>ate</u> **firmations** 

## 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=3RT1076-6SF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1076-6SF36

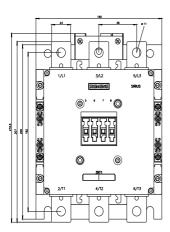
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$ 

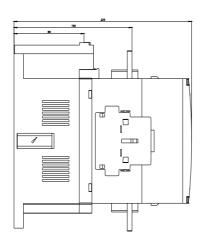
https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6SF36

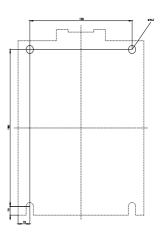
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

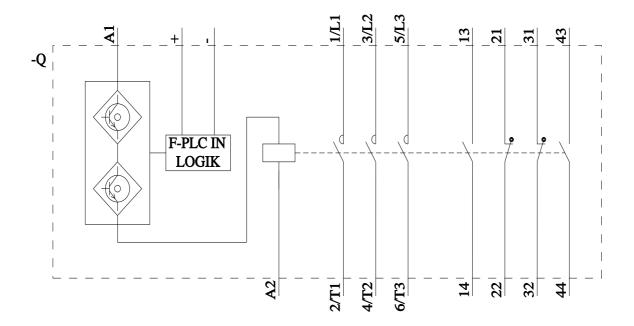
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1076-6SF36&lang=en

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1076-6SF36&objecttype=14&gridview=view1









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