## SIEMENS

## Data sheet

## 3RT1075-6SP36-3PA0



Power contactor, AC-3 400 A, 200 kW / 400 V Coil AC 50/60 Hz and DC 200-277 V x (0.8-1.1) F-SPS input 24 V DC 3-pole size S12 Auxiliary contacts 2 NO + 2 NC permanently mounted Main circuit: Busbar Control and auxiliary circuit: Screw terminal

product designation         Power contactor           product type designation         SRT1           concrait technical data         SI2           product extension         No           • function module for communication         No           • auxiliary switch         Yes           power loss [W] for rated value of the current         SI2           • at AC in hot operating state per pole         35 W           • without load current share typical         AG W           • of main circuit with degree of pollution 3 rated value         100 V           • of auxiliary circuit and value         6 KV           • of main circuit with degree of pollution 3 rated value         6 KV           • of auxiliary circuit and value         8 KV           • at AC         8 Sg / 5 ms, 4.2g / 10 ms           • at AC         8 Sg / 5 ms, 6.5g / 10 ms           • at AC         13.4g / 5 ms, 6.5g / 10 ms           • at AC         10 000 000           • at AC         10 00	product brand name	SIRIUS		
General technical data         size of contactor       S12         product extension       No         • function module for communication       No         • auxiliary switch       Yes         power loss [W] for rated value of the current       105 W         • at AC in hot operating state per pole       35 W         • of main circuit with degree of pollution 3 rated value       1000 V         • of main circuit with degree of pollution 3 rated value       1000 V         • of main circuit with degree of pollution 3 rated value       1000 V         • of main circuit rated value       6 KV         maximum permissible voltage for safe isolation between coll and main contacts according to EN 60947-1       680 V         shock resistance at rectangular impulse       4, XQ         • at AC       8,5g / 5 ms, 4,2g / 10 ms         • at AC       13,4g / 5 ms, 6,5g / 10 ms         • at AC       10,000 000         • at AC       10,000 000         • at DC       10,000 000         • of the contactor with added auxiliary switch block typical       10000 000         • of the contactor with added auxiliary switch block typical       10000 000         • of the contactor with added auxiliary switch block typical       10000 000         • of the contactor with added auxiliary switch block typ	product designation	Power contactor		
size of contactor     S12       product extension     No       • d function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     105 W       • at AC in hot operating state per pole     35 W       • without load current share typical     3.6 W       insulation voltage     1 000 V       • of main circuit with degree of pollution 3 rated value     500 V       • of main circuit vith degree of pollution 3 rated value     6 kV       • of main circuit rated value     6 kV       • of auxiliary circuit rated value     13,4g / 5 ms, 6,5g / 10 ms       • at DC     13,4g / 5 ms, 6,5g / 10 ms       • at DC     13,4g / 5 ms, 6,5g / 10 ms       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the conta	product type designation	3RT1		
product extension       No         • function module for communication       Yes         • auxiliary switch       Yes         • at AC in hot operating state       105 W         • at AC in hot operating state per pole       36 W         • without load current share typical       3.6 W         insulation voltage       1 000 V         • 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         • of auxiliary circuit rated value       6 kV         • of main circuit rated value       6 kV         • of main circuit rated value       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at AC       8.5g / 5 ms, 4.2g / 10 ms         • at AC       8.5g / 5 ms, 4.2g / 10 ms         • at AC       13.4g / 5 ms, 6.5g / 10 ms         • at AC       13.4g / 5 ms, 6.5g / 10 ms         • at AC       10 000 000         • at DC       5000 000         • at AC       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000	General technical data			
	size of contactor	S12		
• auxiliary switch         Yes           power loss [W] for rated value of the current         105 W           • at AC in hot operating state         105 W           • at AC in hot operating state prole         35 W           • at AC in hot operating state prole         35 W           • without load current share typical         3.6 W           • of main circuit with degree of pollution 3 rated value         1000 V           • of main circuit rated value         6 W           • of main circuit rated value         6 kV           • of main circuit rated value         6 kV           • of main contract according to EN 60947-1         600 V           shock resistance at rectangular impulse         6 s/g / 5 ms, 4.2g / 10 ms           • at AC         8,5g / 5 ms, 4.2g / 10 ms           • at AC         13,4g / 5 ms, 6,5g / 10 ms           • at AC         13,4g / 5 ms, 6,5g / 10 ms           • at AC         10 000 000           • at AC	product extension			
power loss [W] for rated value of the current <ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>of main circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit rated value</li> <li>at AC</li> <li>of auxiliary circuit rated value</li> <li>at AC</li> <li>at DC</li> <li>at DC</li> <li>at DC</li> <li>at AC</li> <li>at DC</li> <li>at AC</li> <li>at DC</li> <li>at AC</li> <li>at DC</li> <li>at AC</li> <li>bit DC</li> <li>bit DC</li> <li>bit degree of political service life (switching cycles)</li> <li>of contactor typical</li> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>bit bit contactor with added auxiliary switch block typical</li> <li>bit bit contactor with added auxiliary switch block typical</li> <li>cot the contactor with added auxiliary switch block typical</li> <li>bitstalicion altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>c25 +60 °C</li> </ul>	<ul> <li>function module for communication</li> </ul>	No		
• at AC in hot operating state105 W• at AC in hot operating state per pole35 W• of main circuit with degree of pollution 3 rated value3.6 W• of main circuit with degree of pollution 3 rated value1000 V• of main circuit with degree of pollution 3 rated value500 V• of main circuit rated value8 kV• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value8 kV• of auxiliary circuit rated value1000 Vshock resistance at rectangular impulse8.5g / 5 ms, 4.2g / 10 ms• at AC8.5g / 5 ms, 4.2g / 10 ms• at AC13.4g / 5 ms, 6.5g / 10 ms• at DC13.4g / 5 ms, 6.5g / 10 ms• at DC10 000 000• at DC10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical0 auxiliary switch block typical• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical2 000 mInstallation altitude at height ab	auxiliary switch	Yes		
• at AC in hot operating state per pole35 W• without load current share typical3.6 Winsulation voltage1 000 V• of main circuit with degree of pollution 3 rated value1 000 V• of auxiliary circuit with degree of pollution 3 rated value500 V• of main circuit rated value6 kV• of auxiliary circuit rated value6 kV• at AC8.5g / 5 ms, 4.2g / 10 ms• at AC8.5g / 5 ms, 4.2g / 10 ms• at AC13.4g / 5 ms, 6.5g / 10 ms• at AC13.4g / 5 ms, 6.5g / 10 ms• at AC10 000 000• at AC10 000 000• at AC10 000 000• at DC10 000 000• at AC10 000 000• at AC10 000 000• at DC10 000 000• at AC10 000 000• at AC2000 muauxiliary switch block typical0 000 000• of the contactor with added auxiliary switch block0 30/01/2017Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature-25 +60 "C	power loss [W] for rated value of the current			
• without load current share typical3.6 Winsulation voltage0 of main circuit with degree of pollution 3 rated value1 000 V• of auxiliary circuit with degree of pollution 3 rated value500 V• of auxiliary circuit with degree of pollution 3 rated500 Vsurge voltage resistance8 kV• of main circuit rated value6 kVmaximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1690 Vshock resistance at rectangular impulse8,5g / 5 ms, 4,2g / 10 ms• at AC8,5g / 5 ms, 4,2g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC10,000 000• at DC10,000 000• at AC10,000 000• at AC10,000 000• at AC3,000 000• at AC3,000 000• at AC10,000 000• at AC3,000 000• at BC10,000 000• at AC3,000 000• at AC3,000 000• at AC0,000 000• at BC10,000 000• at	<ul> <li>at AC in hot operating state</li> </ul>	105 W		
insulation voltage <ul> <li>of main circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of main circuit rated value</li> <li>of main circuit rated value</li> <li>of auxiliary circuit rated value</li> <li>kV</li> <li>of or safe isolation between coll and main contacts according to EN 60947-1</li> <li>690 V</li> </ul> <ul> <li>Shock resistance at rectangular impulse</li> <li>a.t AC</li> <li>a.t DC</li> <li>a.t AC</li> <li>a.t AC</li> <li>a.t AC</li> <li>a.t AC</li> <li>a.t DC</li> <li>b.to contactor typical</li> <li>of contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxi</li></ul>	<ul> <li>at AC in hot operating state per pole</li> </ul>	35 W		
• of main circuit with degree of pollution 3 rated value1 000 V• of auxiliary circuit with degree of pollution 3 rated value500 Vsurge voltage resistance500 V• of main circuit rated value8 kV• of auxiliary circuit rated value8 kV• of auxiliary circuit rated value6 kVmaximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1690 Vshock resistance at rectangular impulse6 kJ• at AC8.5g / 5 ms, 4.2g / 10 ms• at AC8.5g / 5 ms, 4.2g / 10 ms• at AC13.4g / 5 ms, 6.5g / 10 ms• at DC13.4g / 5 ms, 6.5g / 10 ms• at DC10 000 000• of contactor typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical0 dVreference code according to EC 81346-2QSubstance Prohibitance (Date)2 000 mambient conditions2 000 mambient temperature • during operation-25 +60 °C	<ul> <li>without load current share typical</li> </ul>	3.6 W		
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value         value           surge voltage resistance         8 kV           • of main circuit rated value         8 kV           • of auxiliary circuit rated value         6 kV           maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1         690 V           shock resistance at rectangular impulse         659 / 5 ms, 4,2g / 10 ms           • at AC         8,5g / 5 ms, 4,2g / 10 ms           • at AC         8,5g / 5 ms, 6,5g / 10 ms           • at AC         13,4g / 5 ms, 6,5g / 10 ms           • at AC         13,4g / 5 ms, 6,5g / 10 ms           • at AC         10 000 000           • of contactor typical         10 000 000           • of the contactor with added electronically optimized auxiliary switch block typical         5 000 000           • of the contactor with added auxiliary switch block typical         10 000 000           • of the contactor with added auxiliary switch block typical         10 000 000           • of the contactor with added auxiliary switch block typical         10 000 000           • of the contactor with added auxiliary switch block typical         2 000 m           installation altitude at height above sea level maximum         2 000 m           ambient conditions         2 000 m	<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V		
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coil and main contacts according to EN 60947-1shock resistance at rectangular impulse• at AC8,5g / 5 ms, 4,2g / 10 ms• at DC8,5g / 5 ms, 4,2g / 10 msshock resistance with sine pulse• at AC13,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 ms• at DC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)03/01/2017Ambient conditions2 000 minstallation altitude at height above sea level maximum • during operation2 000 m	<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV		
• at AC8,5g / 5 ms, 4,2g / 10 ms• at DC8,5g / 5 ms, 4,2g / 10 msshock resistance with sine pulse		690 V		
at DC8,5g / 5 ms, 4,2g / 10 msshock resistance with sine pulse73,4g / 5 ms, 6,5g / 10 ms• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 msmechanical service life (switching cycles)10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor block typical000 000• of the contactor block typical000 000• of the contactor block typical0000 000• of the contactor block typical0000000• of the contactor block typical0000 000• of the contactor bloc	shock resistance at rectangular impulse			
shock resistance with sine pulse       13,4g / 5 ms, 6,5g / 10 ms         • at DC       13,4g / 5 ms, 6,5g / 10 ms         mechanical service life (switching cycles)       10 000 000         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       0 000 000         methematic code according to IEC 81346-2       Q         Substance Prohibitance (Date)       03/01/2017         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C	• at AC	8,5g / 5 ms, 4,2g / 10 ms		
• at AC13,4g / 5 ms, 6,5g / 10 ms• at DC13,4g / 5 ms, 6,5g / 10 msmechanical service life (switching cycles)10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor block typical0000 000• of the contactor block typical03/01/2017Ambient conditions2 000 m• during operation-25 +60 °C	● at DC	8,5g / 5 ms, 4,2g / 10 ms		
• at DC13,4g / 5 ms, 6,5g / 10 ms• echanical service life (switching cycles)-• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added au	shock resistance with sine pulse			
mechanical service life (switching cycles)       10 000 000         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       5 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       0 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       03/01/2017         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C	• at AC	13,4g / 5 ms, 6,5g / 10 ms		
• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)03/01/2017Ambient conditions2 000 minstallation altitude at height above sea level maximum e during operation2 000 m	● at DC	13,4g / 5 ms, 6,5g / 10 ms		
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typical     Image: constraint of the provide the provided		5 000 000		
Substance Prohibitance (Date)       03/01/2017         Ambient conditions       installation altitude at height above sea level maximum         ambient temperature       2 000 m         • during operation       -25 +60 °C		10 000 000		
Ambient conditions         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C	reference code according to IEC 81346-2	Q		
installation altitude at height above sea level maximum       2 000 m         ambient temperature <ul> <li>during operation</li> <li>-25 +60 °C</li> </ul>	Substance Prohibitance (Date)	03/01/2017		
ambient temperature       • during operation       -25 +60 °C	Ambient conditions			
• during operation -25 +60 °C	installation altitude at height above sea level maximum	2 000 m		
	ambient temperature			
• during storage -55 +80 °C	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 maximum	95 %
lain 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
<ul> <li>at AC-3e rated value maximum</li> </ul>	1 000 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated value	430 A
● at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	430 A
— up to 690 V at ambient temperature 60 °C rated value	400 A
— up to 1000 V at ambient temperature 40 °C rated value	200 A
— up to 1000 V at ambient temperature 60 °C rated value	200 A
• at AC-3	
— at 400 V rated value	400 A
— at 500 V rated value	400 A
— at 690 V rated value	400 A
— at 1000 V rated value	180 A
• at AC-3e	
— at 400 V rated value	400 A
— at 500 V rated value	400 A
— at 690 V rated value	400 A
— at 1000 V rated value	180 A
at AC-4 at 400 V rated value	350 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	378 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	332 A
• at AC-6a	552 A
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	395 A
— up to 400 V for current peak value n=20 rated value	395 A
<ul> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	395 A
<ul> <li>— up to 690 V for current peak value n=20 rated value</li> </ul>	395 A
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> </ul>	180 A
<ul> <li>at AC-6a</li> <li>up to 230 V for current peak value n=30 rated</li> </ul>	264 A
value — up to 400 V for current peak value n=30 rated value	264 A
— up to 500 V for current peak value n=30 rated value	264 A
— up to 690 V for current peak value n=30 rated value	264 A
<ul> <li>up to 1000 V for current peak value n=30 rated value</li> </ul>	180 A
minimum cross-section in main circuit at maximum AC-1 rated value	300 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	150 A
at 690 V rated value	135 A
operational current	

— at 24 V rated value	400 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 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 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
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	400 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 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
with 3 current paths in series at DC-3 at DC-5	
— at 24 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	0.10 M
• at AC-2 at 400 V rated value	200 kW
• at AC-3	
— at 230 V rated value	132 kW
— at 400 V rated value	200 kW
— at 500 V rated value	250 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
• at AC-3e	
— at 230 V rated value	132 kW
— at 400 V rated value	200 kW
— at 500 V rated value	250 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	
<ul> <li>at 400 V rated value</li> </ul>	85 kW
• at 690 V rated value	133 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	150 000 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	270 000 VA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	340 000 VA
• up to 690 V for current peak value n=20 rated value	470 000 VA
• up to 1000 V for current peak value n=20 rated	310 000 VA
value	
operating apparent power at AC-6a	

<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	100 000 VA			
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	180 000 VA			
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	220 000 VA			
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	310 000 VA			
<ul> <li>up to 1000 V for current peak value n=30 rated</li> </ul>	310 000 VA			
value				
short-time withstand current in cold operating state				
up to 40 °C				
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	6 600 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	5 761 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	4 143 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	2 635 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	2 088 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	350 1/h			
• at AC-2 maximum	200 1/h			
• at AC-3 maximum	350 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	200 277 V			
<ul> <li>at 60 Hz rated value</li> </ul>	200 277 V			
control supply voltage at DC				
rated value	200 277 V			
type of PLC-control input according to IEC 60947-1	Type 1			
consumed current at PLC-control input according to	14 mA			
IEC 60947-1 maximum				
voltage at PLC-control input rated value	24 V			
operating range factor of the voltage at PLC-control	0.8 1.1			
input				
operating range factor control supply voltage rated				
value of magnet coil at DC	0.0			
• 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 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 of magnet coil at AC				
apparent noting power of magnet con at AC     • at 50 Hz	7 VA			
• at 50 Hz	7 VA 7 VA			
inductive power factor with the holding power of the				
coil				
• at 50 Hz	0.8			
• at 60 Hz	0.8			
closing power of magnet coil at DC	800 W			
holding power of magnet coil at DC	3.6 W			
closing delay				
• at AC	60 75 ms			
• at DC	60 75 ms			

opening delay			
• at AC	115 130 ms		
• at DC	115 130 ms		
recovery time after power failure typical	2 s		
arcing time	10 15 ms		
control version of the switch operating mechanism	Fail-safe PLC input (F-PLC-IN)		
Auxiliary circuit			
number of NC contacts for auxiliary contacts	2		
instantaneous contact			
number of NO contacts for auxiliary contacts	2		
instantaneous contact	10.4		
operational current at AC-12 maximum	10 A		
operational current at AC-15	<u></u>		
• 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		
<ul> <li>at 60 V rated value</li> </ul>	6 A		
<ul> <li>at 110 V rated value</li> </ul>	3 A		
<ul> <li>at 125 V rated value</li> </ul>	2 A		
<ul> <li>at 220 V rated value</li> </ul>	1 A		
at 600 V rated value	0.15 A		
operational current at DC-13			
<ul> <li>at 24 V rated value</li> </ul>	10 A		
<ul> <li>at 48 V rated value</li> </ul>	2 A		
<ul> <li>at 60 V rated value</li> </ul>	2 A		
<ul> <li>at 110 V rated value</li> </ul>	1 A		
<ul> <li>at 125 V rated value</li> </ul>	0.9 A		
<ul> <li>at 220 V rated value</li> </ul>	0.3 A		
<ul> <li>at 600 V rated value</li> </ul>	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	361 A		
• at 600 V rated value	382 A		
yielded mechanical performance [hp]			
• for 3-phase AC motor			
— at 200/208 V rated value	125 hp		
— at 220/230 V rated value	150 hp		
— at 460/480 V rated value	300 hp		
— at 575/600 V rated value	400 hp		
contact rating of auxiliary contacts according to UL	A600 / P600		
Short-circuit protection			
design of the fuse link			
for short-circuit protection of the main circuit	~C+ 620 A (600 )/ 100 kA)		
<ul> <li>— with type of coordination 1 required</li> <li>with type of application 2 required</li> </ul>	gG: 630 A (690 V, 100 kA)		
— with type of assignment 2 required	gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415 V, 50 kA)		
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	gG: 10 A (500 V, 1 kA)		
required	30.107(000 0, 110)		
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		
<ul> <li>side-by-side mounting</li> </ul>	Yes		
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			
<ul> <li>for live parts</li> </ul>				
— 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			
<ul> <li>of magnet coil</li> </ul>	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				
at 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			
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²			
type of connectable conductor cross-sections				
<ul> <li>for auxiliary contacts</li> </ul>				
— 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)			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 1x 12			
AWG number as coded connectable conductor cross				
section				
<ul> <li>for auxiliary contacts</li> </ul>	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			
safety device type according to IEC 61508-2	Туре В			
B10 value with high demand rate according to SN 31920	1 000 000			
Safety Integrity Level (SIL) according to IEC 61508	2			
SIL Claim Limit (subsystem) according to EN 62061	2			
performance level (PL) according to EN ISO 13849-1	c			
category according to EN ISO 13849-1	2			
stop category according to EN 60204-1	0			
Safe failure fraction (SFF)	93 %			
failure rate [FIT] with low demand rate according to SN 31920	100 FIT			
PFHD with high demand rate according to EN 62061	0.0000045 1/h			
PFDavg with low demand rate according to IEC 61508	0.007			

MTBF			75 y			
hardware fault toler	ance according to IEC	61508	0			
	T1 value for proof test interval or service life according to		20 y			
protection class IP 660529	on the front according	to IEC	IP00;	IP20 with box terminal	/cover	
touch protection on	the front according to	DIEC 60529	finger	-safe, for vertical conta	act from the front with	box terminal/cover
suitability for use						
<ul> <li>safety-related s</li> </ul>	-		No			
<ul> <li>safety-related s</li> </ul>	-		Yes			
Certificates/ approva	ls					
General Product A	oproval					EMC
		<u>Confirmatio</u>	<u>on</u>	(UL) UL	EHC	RCM
Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates			other	
<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	<u>Special Test C</u> ate	ertific-	<u>Type Test Certific-</u> ates/Test Report	<u>Confirmation</u>	<u>Miscellaneous</u>
other	Railway					
<u>Miscellaneous</u>	Special Test Certific- ate					
Further information						

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=3RT1075-6SP36-3PA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1075-6SP36-3PA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6SP36-3PA0

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1075-6SP36-3PA0&lang=en

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6SP36-3PA0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1075-6SP36-3PA0&objecttype=14&gridview=view1







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