## SIEMENS

## Data sheet

## 3MT7050-3AA11-0AM0



3P Power Contactor AC3:50A 1NO+1NC AC220V 50Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA		
product designation	Power contactor		
General technical data			
size of contactor	3		
product extension auxiliary switch	Yes		
power loss [W] for rated value of the current at AC in hot operating state	22.176 W		
• per pole	7.392 W		
insulation voltage			
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V		
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	1 000 V		
surge voltage resistance			
<ul> <li>of main circuit rated value</li> </ul>	8 kV		
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV		
protection class IP			
• on the front	IP20		
mechanical service life (operating cycles)			
<ul> <li>of contactor typical</li> </ul>	5 000 000		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	07/01/2022		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
<ul> <li>during operation</li> </ul>	-5 +55 °C		
during storage	-25 +70 °C		
relative humidity minimum	10 %		
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %		
Main circuit			
number of poles for main current circuit	3		
number of NO contacts for main contacts	3		
operating voltage at AC-3 rated value maximum	690 V		
operational current			
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	80 A		
• at AC-1 up to 690 V			
- at ambient temperature 40 °C rated value	80 A		
<ul> <li>— at ambient temperature 60 °C rated value</li> </ul>	65 A		
• at AC-3			
-	50 A		

operating power	
• at AC-3	
— at 400 V rated value	22 kW
— at 690 V rated value	22 kW
no-load switching frequency	
• at AC	1 200 1/h
operating frequency	
<ul> <li>at AC-1 maximum</li> </ul>	600 1/h
• at AC-3 maximum	600 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	220 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	230 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	32 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.3
• at 60 Hz	0.3
closing delay at AC	17 29 ms
opening delay at AC	6 15 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	4
instantaneous contact	1
number of NO contacts for auxiliary contacts <ul> <li>instantaneous contact</li> </ul>	1
operational current at AC-12 maximum	10 A
operational current at AC-12 maximum	
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	1A
operational current at DC-12	
at 24 V rated value	6 A
at 110 V rated value	3 A
at 220 V rated value	1 A
operational current at DC-13	
• at 24 V rated value	6 A
• at 110 V rated value	1 A
• at 220 V rated value	0.3 A
● at 600 V rated value	0.1 A
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
— with type of coordination 1 required	fuse gG: 100 A
— with type of assignment 2 required	fuse gG: 80 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gG: 10 A
mounting position	22.5° inclination forward and backward & 360° rotation, in relation to normal vertical mounting plane
fastening method	screw and snap-on mounting onto 35 mm or 75 mm standard mounting rail according to DIN EN 60715
height	127.5 mm
width	74.5 mm
depth	113 mm
Connections/ Terminals	

type of electrical conn	ection				
<ul> <li>for main current circuit</li> </ul>		screw-type terminals			
<ul> <li>for auxiliary and control circuit</li> </ul>			screw-type terminals		
type of connectable conductor cross-sections for main contacts					
<ul> <li>solid or stranded</li> </ul>			1x (2.5 25 mm²), 2x (2.5 16 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>		1x (2.5 25 mm²), 2x (2.5 10 mm²)			
type of connectable co	type of connectable conductor cross-sections				
<ul> <li>for auxiliary contacts</li> </ul>					
— solid or stranded		1x (1 4 mm²), 2x (1 4 mm²)			
— finely stranded with core end processing		1x (1 2.5 mm²), 2x (1 1.5 mm²)			
tightening torque					
<ul> <li>for main contacts with screw-type terminals</li> </ul>		5 N·m			
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>		1.2 N·m			
design of the thread of the connection screw					
<ul> <li>for main contacts</li> </ul>		M8			
<ul> <li>of the auxiliary and control contacts</li> </ul>		M3.5			
Approvals Certificates					
General Product Ap- proval	Test Certificates	other		Environment	
CE	Type Test Certific- ates/Test Report	<u>Confirmatio</u>	n	Environmental Con- firmations	

EG-Konf.

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=3MT7050-3AA11-0AM0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7050-3AA11-0AM0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3MT7050-3AA11-0AM0

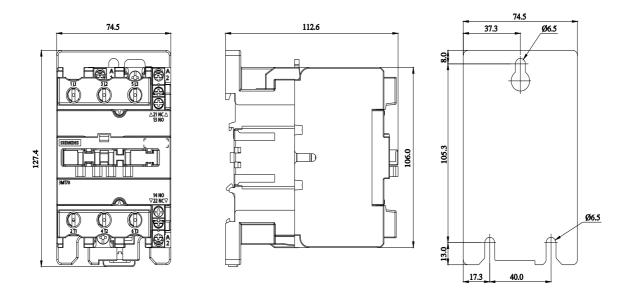
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

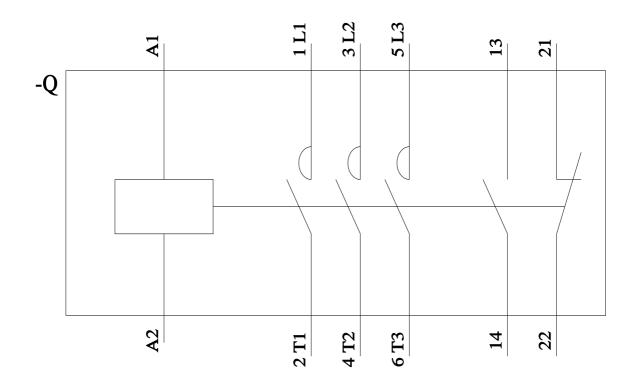
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3MT7050-3AA11-0AM0&lang=en

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

https://support.industry.siemens.com/cs/ww/en/ps/3MT7050-3AA11-0AM0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7050-3AA11-0AM0&objecttype=14&gridview=view1





## last modified:

1/3/2023 🖸