## SIEMENS

## Data sheet

## 3MT7006-0AA01-0AL2



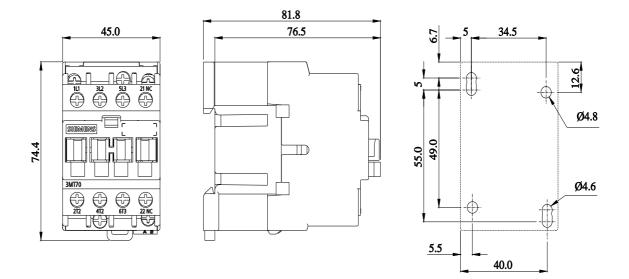
3P Power Contactor AC3:6A 1NC AC230V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

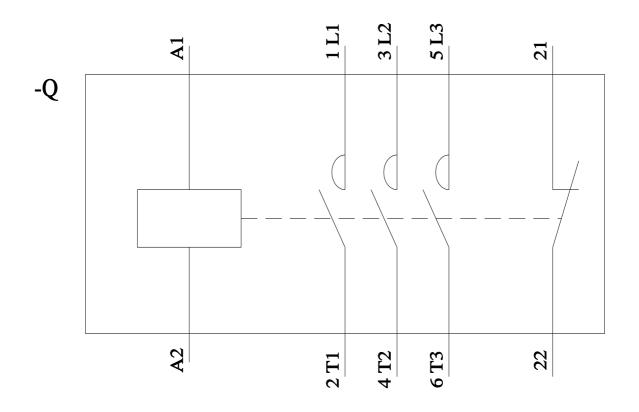
product brand name	SINOVA		
product brand name product designation	Power contactor		
General technical data			
size of contactor	0		
product extension auxiliary switch	Yes		
power loss [W] for rated value of the current at AC in hot	7.5 W		
operating state			
• per pole	2.5 W		
insulation voltage			
<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>	6 kV		
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV		
protection class IP			
• on the front	IP20		
mechanical service life (operating cycles)			
of contactor typical	10 000 000		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	07/01/2022		
Weight	0.354 kg		
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>	25 A		
• at AC-1 up to 690 V			
— at ambient temperature 40 °C rated value	25 A		
— at ambient temperature 60 °C rated value	19 A		
• at AC-3			
— at 400 V rated value	6 A		

— at 690 V rated value	4 A		
operating power			
• at AC-3			
— at 400 V rated value	2.2 kW		
— at 690 V rated value	3 kW		
no-load switching frequency			
• at AC	1 800 1/h		
operating frequency			
• at AC-1 maximum	600 1/h		
• at AC-3 maximum	750 1/h		
Control circuit/ Control			
type of voltage of the control supply voltage	AC		
control supply voltage at AC			
at 50 Hz rated value	230 V		
• at 60 Hz rated value	230 V		
operating range factor control supply voltage rated value of			
magnet coil at AC			
• at 50 Hz	0.85 1.1		
• at 60 Hz	0.85 1.1		
apparent pick-up power of magnet coil at AC			
• at 50 Hz	80 VA		
• at 60 Hz	80 VA		
inductive power factor with closing power of the coil			
• at 50 Hz	0.75		
• at 60 Hz	0.75		
apparent holding power of magnet coil at AC			
• at 50 Hz	12 VA		
• at 60 Hz	11 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	9 25 ms		
opening delay at AC	4 15 ms		
Auxiliary circuit			
number of NC contacts for auxiliary contacts			
<ul> <li>instantaneous contact</li> </ul>	1		
number of NO contacts for auxiliary contacts			
instantaneous contact	0		
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	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			
for short-circuit protection of the main circuit			
- with type of coordination 1 required	fuse gG: 32 A		
— with type of assignment 2 required	fuse gG: 25 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	tening method			screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
height			74.5 mm			
width				45 mm		
depth		82 mr	82 mm			
Connections/ Terminals						
type of electrical connection						
<ul> <li>for main current c</li> </ul>	circuit		screw-type terminals			
<ul> <li>for auxiliary and c</li> </ul>	control circuit		screw	screw-type terminals		
type of connectable conductor cross-sections for main contacts						
solid or stranded		1x (1	1x (1 4 mm²), 2x (1 4 mm²)			
<ul> <li>finely stranded wi</li> </ul>	<ul> <li>finely stranded with core end processing</li> </ul>		1x (1 4 mm²), 2x (1 1.5 mm²)			
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 strand	led with core end process	ing	1x (1 2.5 mm²), 2x (1 1.5 mm²)			
tightening torque						
<ul> <li>for main contacts</li> </ul>	with screw-type terminals	5	1.2 N·m			
<ul> <li>for auxiliary containing</li> </ul>	acts with screw-type termi	nals	1.2 N·m			
design of the thread of the connection screw						
for main contacts		M3.5				
<ul> <li>of the auxiliary an</li> </ul>	<ul> <li>of the auxiliary and control contacts</li> </ul>		M3.5			
Approvals Certificates						
General Product Ap- proval	Test Certificates	other		Environment		
C E EG-Konf.	Type Test Certific- ates/Test Report	<u>Confirmatio</u>	n	Environmental Con- 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://mail.industry.siemens.com/mail/en/en/Catalog/product?mlfb=3MT7006-0AA01-0AL2
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7006-0AA01-0AL2
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7006-0AA01-0AL2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7006-0AA01-0AL2⟨=en
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7006-0AA01-0AL2/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7006-0AA01-0AL2&objecttype=14&gridview=view1





## last modified:

1/3/2023 🖸