SIEMENS

Data sheet

3MT7010-0AA10-0AP0



3P Power Contactor AC3:9A 1NO AC230V 50Hz Main circuit: Screw Auxiliary circuit: Screw

	01101/4
product brand name	SINOVA
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 operating state	7.5 W
• per pole	2.5 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 	1 000 V
surge voltage resistance	
 of main circuit rated value 	6 kV
 of auxiliary circuit rated value 	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	
 during operation 	-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	
• at AC-1 at 400 V at ambient temperature 40 °C rated value	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	9 A

— at 690 V rated value	5.2 A
operating power	
• at AC-3	
— at 400 V rated value	4 kW
— at 690 V rated value	5.5 kW
no-load switching frequency	0.0 KW
• 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
operating range factor control supply voltage rated value of	200 1
magnet coil at AC	
• at 50 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	70 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	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 NO contacts for auxiliary contacts	
 instantaneous contact 	1
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
for short-circuit protection of the auxiliary switch required	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 DIN rail according to DIN EN 60715
height	74.5 mm
width	45 mm
depth	82 mm
Connections/ Terminals	
type of electrical connection	
• for main current circuit	screw-type terminals

 for auxiliary and c 	control circuit			v-type terminals	
type of connectable conductor cross-sections for main contacts					
solid or stranded			1x (1 4 mm²), 2x (1 4 mm²)		
 finely stranded with core end processing 			1x (1 4 mm²), 2x (1 1.5 mm²)		
type of connectable conductor cross-sections					
 for auxiliary contacts 					
— 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					
 for main contacts with screw-type terminals 		1.2 N·m			
 for auxiliary contacts with screw-type terminals 		1.2 N·m			
design of the thread of the connection screw					
for main contacts		M3.5			
 of the auxiliary and control contacts 		M3.5			
Approvals Certificates					
General Product Approval	Test Certificates	other		Environment	
C€	Type Test Certific- ates/Test Report	<u>Confirmation</u>	ם	Environmental Con- firmations	

Further information

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=3MT7010-0AA10-0AP0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7010-0AA10-0AP0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3MT7010-0AA10-0AP0

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

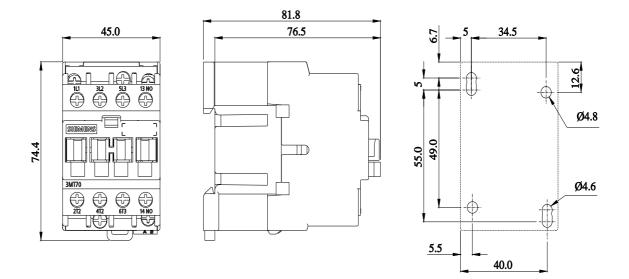
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7010-0AA10-0AP0&lang=en

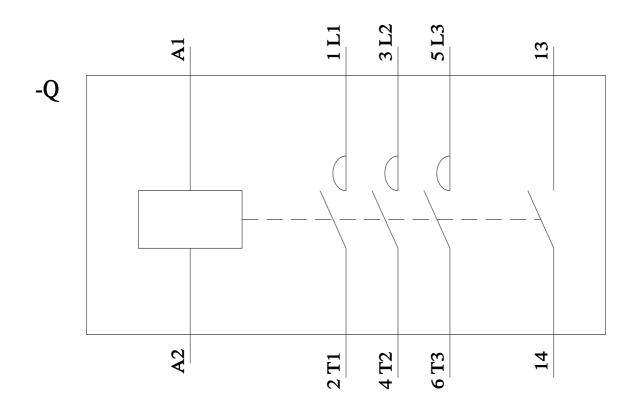
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3MT7010-0AA10-0AP0/char

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

 http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7010-0AA10-0AP0&objecttype=14&gridview=view1





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