3MT7012-0AA10-0AN2

Data sheet



3P Power Contactor AC3:12A 1NO AC220V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

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	12 A	

— at 690 V rated value	6.7 A
operating power	
• at AC-3	
— at 400 V rated value	5.5 kW
— at 690 V rated value	5.5 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	220 V
• at 60 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
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	90.1/4
• 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 50 Hz	0.75
apparent holding power of magnet coil at AC	0.73
• 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 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	6.4
• at 110 V rated value	1.4
at 220 V rated value	0.3 A
at 600 V rated value Chart size if a value if a value	0.1 A
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit with two of coordination 1 required.	funa aC: 22 A
— with type of coordination 1 required	fuse gG: 35 A
— with type of assignment 2 required	fuse gG: 25 A
• for short-circuit protection of the auxiliary switch required mounting position	fuse gG: 10 A 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
	r no min

width			45 mm			
depth			82 mm			
Connections/ Terminals						
type of electrical connection						
 for main current circuit 	for main current circuit			screw-type terminals		
for auxiliary and control circuit			screw-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	est Certificates	other		Environment		

proval

Type Test Certificates/Test Report

Confirmation

Environmental Con**firmations**

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

Industry Mall (Online ordering system)

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7012-0AA10-0AN2

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

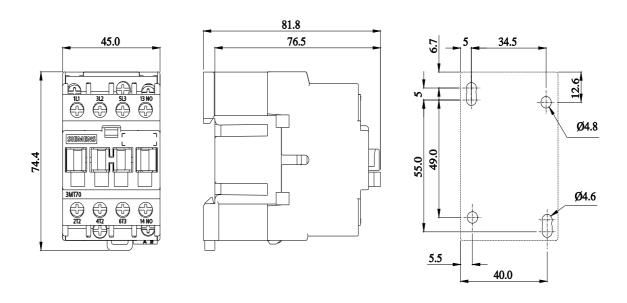
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7012-0AA10-0AN2&lang=en

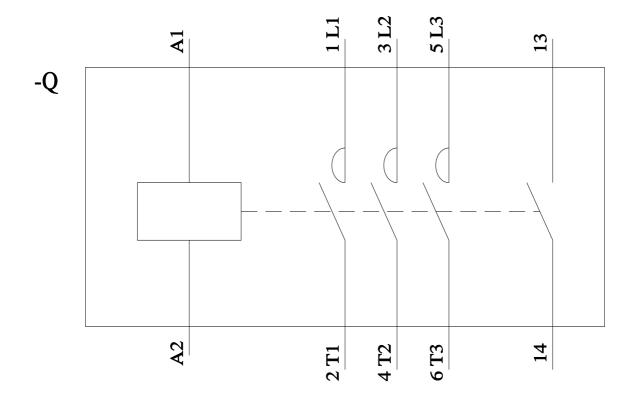
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3MT7012-0AA10-0AN2/char

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

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