Data sheet



3P Power Contactor AC3:12A 1NO AC24V 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	24 V
at 60 Hz rated value	24 V
operating range factor control supply voltage rated value of	
magnet coil at AC	0.05
• 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
at 60 Hz apparent holding power of magnet coil at AC	0.10
• at 50 Hz	12 VA
• at 60 Hz	11 VA
inductive power factor with the holding power of the coil	11 7/
• 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	1A
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 mr	45 mm	
depth			82 mr	n	
Connections/ Terminals					
type of electrical connection					
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	Test 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=3MT7012-0AA10-0AC2

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

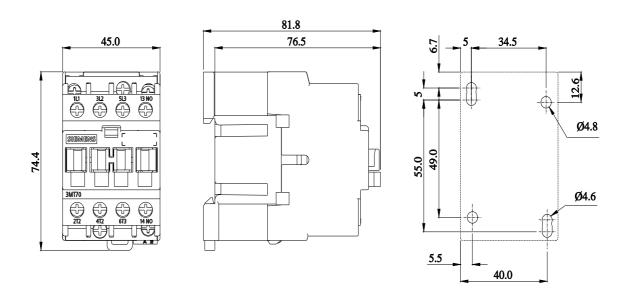
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7012-0AA10-0AC2&lang=en

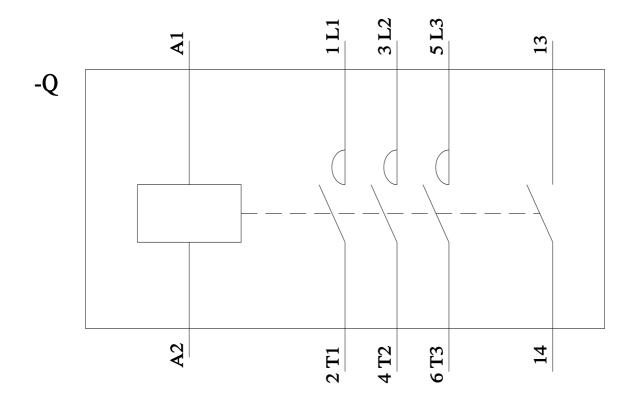
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3MT7012-0AA10-0AC2/char

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

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last modified: 2/24/2023 🖸

