3MT7038-2AA10-0AL2

Data sheet



3P Power Contactor AC3:38A 1NO AC230V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA				
product designation	Power contactor				
General technical data					
size of contactor	2				
product extension auxiliary switch	Yes				
power loss [W] for rated value of the current at AC in hot operating state	15.525 W				
• per pole	5.175 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	0.538 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 	50 A				
• at AC-1 up to 690 V					
 at ambient temperature 40 °C rated value 	50 A				
 at ambient temperature 60 °C rated value 	42 A				
• at AC-3					
— at 400 V rated value	38 A				

— at 690 V rated value	18.2 A
	10.2 A
operating power • at AC-3	
— at 400 V rated value	40 F IAM
	18.5 kW
— at 690 V rated value	15 kW
no-load switching frequency	4 000 4/5
• at AC	1 800 1/h
operating frequency • at AC-1 maximum	600 1/h
at AC-1 maximum at AC-3 maximum	600 1/h
Control circuit/ Control	800 1/11
	AC
type of voltage of the control supply voltage control supply voltage at AC	AC
at 50 Hz rated value	230 V
at 60 Hz rated value	230 V
operating range factor control supply voltage rated value of	250 V
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	110 VA
● at 60 Hz	110 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	13 VA
• at 60 Hz	12 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	12 27 ms
opening delay at AC	5 22 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	C A
at 24 V rated value at 440 V rated value	6 A
at 110 V rated value at 220 V rated value	3 A
at 220 V rated value approximal current at DC 12	1 A
operational current at DC-13	6.0
 at 24 V rated value at 110 V rated value 	6 A 1 A
at 110 V rated value at 220 V rated value	0.3 A
at 220 V rated value at 600 V rated value	0.3 A 0.1 A
Short-circuit protection	V.IA
design of the fuse link	
for short-circuit protection of the main circuit	
- with type of coordination 1 required	fuse gG: 63 A
with type of coordination is required - with type of assignment 2 required	fuse gG: 50 A
with type of assignment 2 required 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	83 mm
<u>-</u>	

width			56 mm		
depth				95 mm	
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 (1.5 10 mm²), 2x (1.5 6 mm²)		
 finely stranded with core end processing 		1x (1.5 10 mm²), 2x (1.5 4 mm²)			
type of connectable conductor cross-sections					
for auxiliary contacts					
— solid or stranded			1x (1.5 4 mm²), 2x (1.5 4 mm²)		
 finely stranded with core end processing 		1x (1.5 4 mm²), 2x (1.5 4 mm²)			
tightening torque					
 for main contacts with screw-type terminals 		1.85 N·m			
 for auxiliary contacts with screw-type terminals 		1.85 N·m			
design of the thread of the connection screw					
for main contacts		M4			
 of the auxiliary and control contacts 		M4			
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)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7038-2AA10-0AL2}$

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7038-2AA10-0AL2

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

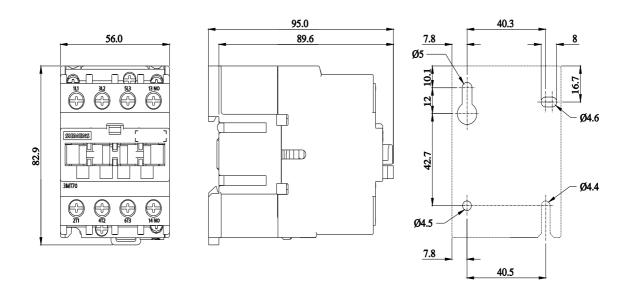
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7038-2AA10-0AL2&lang=en

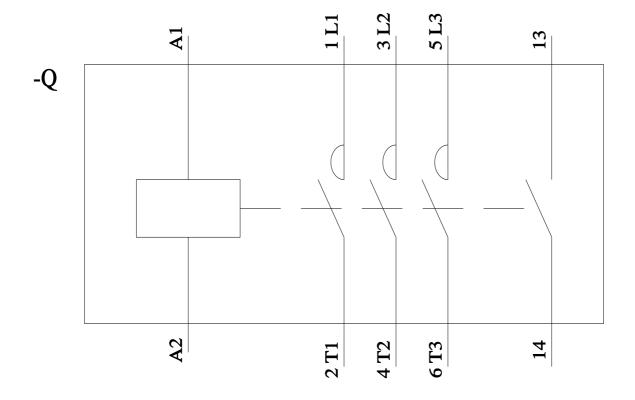
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3MT7038-2AA10-0AL2/char

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

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