SIEMENS

Data sheet

3MT7025-2AA10-0AC2



3P Power Contactor AC3:25A 1NO AC24V 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	10.764 W	
• per pole	3.588 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 	40 A	
• at AC-1 up to 690 V		
- at ambient temperature 40 °C rated value	40 A	
- at ambient temperature 60 °C rated value	31 A	
• at AC-3		
— at 400 V rated value	25 A	

— at 690 V rated value	13 A
operating power	
• at AC-3	
— at 400 V rated value	11 kW
— at 690 V rated value	11 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	
• 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	
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	1A
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: 50 A
— with type of assignment 2 required	-
	fuse gG: 40 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	83 mm
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width		56 mi	n			
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 con	ductor 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.	1x (1.5 10 mm²), 2x (1.5 4 mm²)			
type of connectable conductor cross-sections						
 for auxiliary contacts 						
— solid or stra	— solid or stranded		1x (1.	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	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	M4		
 of the auxiliary and control contacts 		M4				
Approvals Certificates						
General Product Approval	Test Certificates	other		Environment		
CE	Type Test Certific- ates/Test Report	<u>Confirmatio</u>	n	Environmental Con- firmations		

EG-Konf.

Information on the packaging

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

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

htt siemens.com/ic10

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7025-2AA10-0AC2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7025-2AA10-0AC2

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

2AA10-0AC2 https://support.industry.siemens.com/cs/ww/en/ps/3MT7025

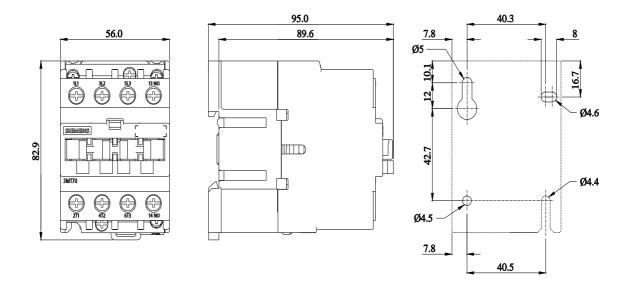
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7025-2AA10-0AC2&lang=en

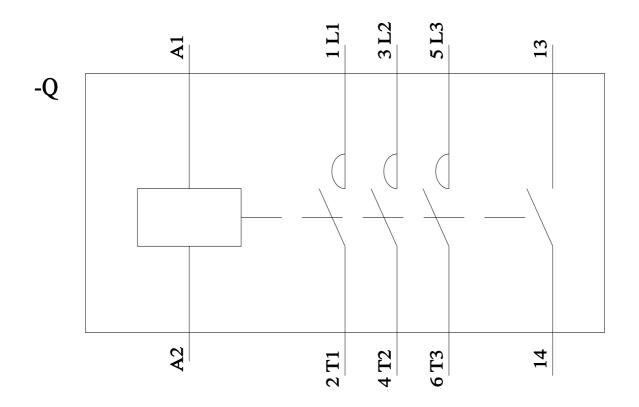
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3MT7025-2AA10-0AC2/char

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

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