3MT7025-2AA10-0AL2

Data sheet



3P Power Contactor AC3:25A 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	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	11 KVV
• at AC	1 800 1/h
operating frequency	1 000 1/11
at AC-1 maximum	600 1/h
• at AC-3 maximum	750 1/h
Control circuit/ Control	750 1/11
type of voltage of the control supply voltage	AC
control supply voltage at AC	710
• at 50 Hz rated value	230 V
at 60 Hz rated value	230 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	6.0
 at 24 V rated value at 110 V rated value 	6 A 3 A
at 110 V rated value at 220 V rated value	1A
• at 220 V rated value operational current at DC-13	10
at 24 V rated value	6 A
at 24 V rated value at 110 V rated value	1.4
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 economiation in required 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

width			56 mr	n
depth			95 mr	n
Connections/ Terminals				
type of electrical conn	ection			
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 co	onductor cross-sections	3		
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)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7025-2AA10-0AL2}$

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7025-2AA10-0AL2

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

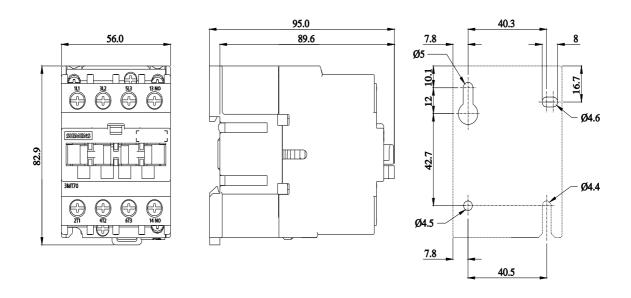
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7025-2AA10-0AL2&lang=en

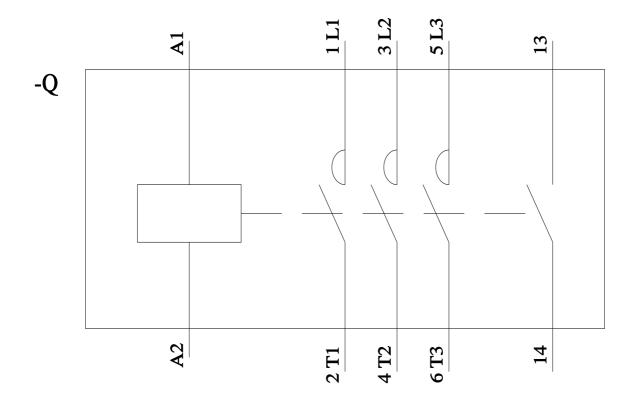
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3MT7025-2AA10-0AL2/char

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

MT7025-2AA10-0AL2&objecttype=14&gridview=view1





last modified: 2/24/2023 🖸

