3MT7025-2AA10-0AM0

## **Data sheet**



3P Power Contactor AC3:25A 1NO AC220V 50Hz 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	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	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
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-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	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	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	220 V
operating range factor control supply voltage rated value of	
magnet coil at AC	
● at 50 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	100 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.75
apparent holding power of magnet coil at AC	
● at 50 Hz	13 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	
<ul> <li>at 230 V rated value</li> </ul>	6 A
<ul> <li>at 400 V rated value</li> </ul>	3 A
<ul> <li>at 500 V rated value</li> </ul>	2 A
<ul> <li>at 690 V rated value</li> </ul>	1 A
operational current at DC-12	
at 24 V rated value	6 A
<ul> <li>at 110 V rated value</li> </ul>	3 A
<ul> <li>at 220 V rated value</li> </ul>	1 A
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: 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
width	56 mm
depth	95 mm
Connections/ Terminals	
type of electrical connection	
• for main current circuit	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals

type of connectable conductor cross-sections for main contacts	
<ul> <li>solid or stranded</li> </ul>	1x (1.5 10 mm²), 2x (1.5 6 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	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)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (1.5 4 mm²), 2x (1.5 4 mm²)
tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	1.85 N·m
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>	1.85 N·m
design of the thread of the connection screw	
• for main contacts	M4
<ul> <li>of the auxiliary and control contacts</li> </ul>	M4
Approvals Certificates	

**General Product Ap-Test Certificates** other **Environment** proval

Type Test Certificates/Test Report

Confirmation

**Environmental Confirmations** 

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

all.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7025-2AA10-0AM0

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3MT7025-2AA10-0AM0}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3MT7025-2AA10-0AM0

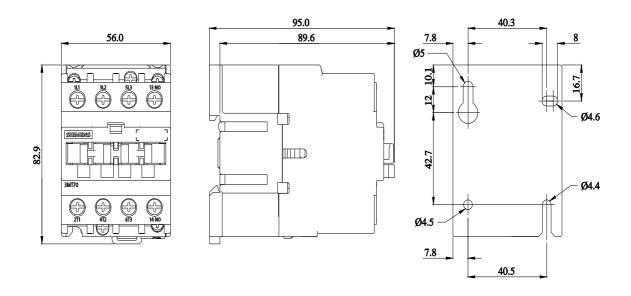
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

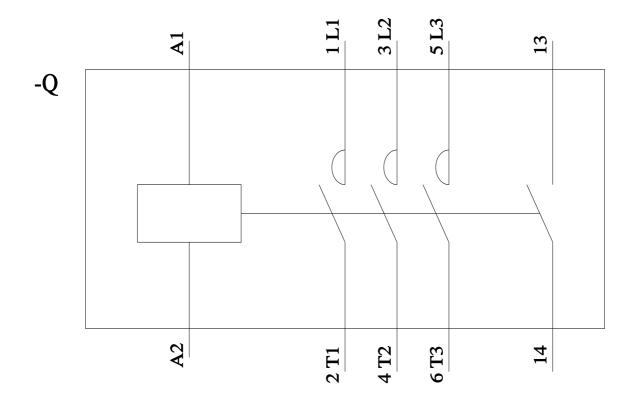
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3MT7025-2AA10-0AM0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7025-2AA10-0AM0&objecttype=14&gridview=view1





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