3MT7025-2AA01-0AP0

Data sheet



3P Power Contactor AC3:25A 1NC AC230V 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		
 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 COO V rated value	42.4
— at 690 V rated value	13 A
operating power	
• at AC-3	44100
— at 400 V rated value	11 kW
— at 690 V rated value	11 kW
no-load switching frequency	4.000 4.8
• at AC	1 800 1/h
operating frequency	000 4//
• 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	2001
at 50 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
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 NC contacts for auxiliary contacts	
instantaneous contact	1
number of NO contacts for auxiliary contacts	
instantaneous contact	0
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	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 coordination 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
	voluda modificing plane
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
fastening method height	
	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 83 mm

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 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 for data generation and storage

https://support.industry.siemens.com/cs/ww/en/view/109995012

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7025-2AA01-0AP0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7025-2AA01-0AP0

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

https://support.industry.siemens.com/cs/ww/en/ps/3MT7025-2AA01-0AP0

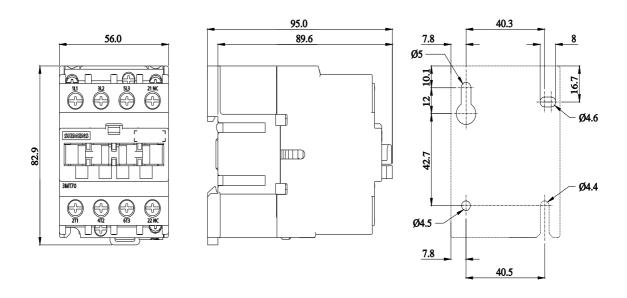
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7025-2AA01-0AP0&lang=en

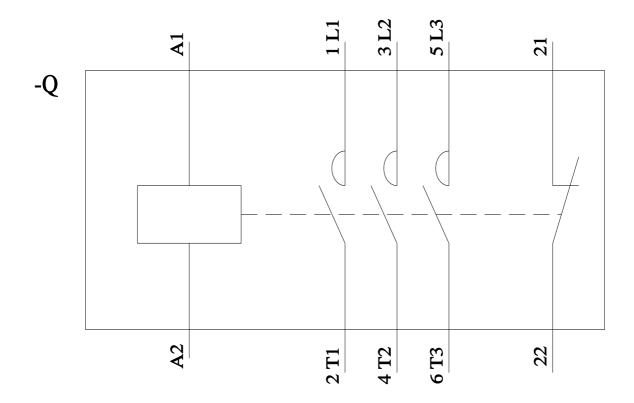
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3MT7025-2AA01-0AP0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7025-2AA01-0AP0&objecttype=14&gridview=view1





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