



3P Power Contactor AC3:25A 1NC AC230V 50Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
<b>General technical data</b>	
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
<b>Ambient conditions</b>	
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 %
<b>Main circuit</b>	
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
<b>operating power</b>	
• at AC-3	
— at 400 V rated value	11 kW
— at 690 V rated value	11 kW
<b>no-load switching frequency</b>	
• at AC	1 800 1/h
<b>operating frequency</b>	
• at AC-1 maximum	600 1/h
• at AC-3 maximum	750 1/h
<b>Control circuit/ Control</b>	
<b>type of voltage of the control supply voltage</b>	AC
<b>control supply voltage at AC</b>	
• at 50 Hz rated value	230 V
<b>operating range factor control supply voltage rated value of magnet coil at AC</b>	
• at 50 Hz	0.85 ... 1.1
<b>apparent pick-up power of magnet coil at AC</b>	
• at 50 Hz	100 VA
<b>inductive power factor with closing power of the coil</b>	
• at 50 Hz	0.75
<b>apparent holding power of magnet coil at AC</b>	
• at 50 Hz	13 VA
<b>inductive power factor with the holding power of the coil</b>	
• at 50 Hz	0.3
• at 60 Hz	0.3
closing delay at AC	12 ... 27 ms
opening delay at AC	5 ... 22 ms
<b>Auxiliary circuit</b>	
<b>number of NC contacts for auxiliary contacts</b>	
• instantaneous contact	1
<b>number of NO contacts for auxiliary contacts</b>	
• instantaneous contact	0
operational current at AC-12 maximum	10 A
<b>operational current at AC-15</b>	
• 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
<b>operational current at DC-12</b>	
• at 24 V rated value	6 A
• at 110 V rated value	3 A
• at 220 V rated value	1 A
<b>operational current at DC-13</b>	
• 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
<b>Short-circuit protection</b>	
<b>design of the fuse link</b>	
• 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
<b>mounting position</b>	22.5° inclination forward and backward & 360° rotation, in relation to normal vertical mounting plane
<b>fastening method</b>	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
<b>height</b>	83 mm
<b>width</b>	56 mm
<b>depth</b>	95 mm
<b>Connections/ Terminals</b>	

<b>type of electrical connection</b>	
• for main current circuit	screw-type terminals
• for auxiliary and control circuit	screw-type terminals
<b>type of connectable conductor cross-sections for main contacts</b>	
• solid or stranded	1x (1.5 ... 10 mm <sup>2</sup> ), 2x (1.5 ... 6 mm <sup>2</sup> )
• finely stranded with core end processing	1x (1.5 ... 10 mm <sup>2</sup> ), 2x (1.5 ... 4 mm <sup>2</sup> )
<b>type of connectable conductor cross-sections</b>	
• for auxiliary contacts	
— solid or stranded	1x (1.5 ... 4 mm <sup>2</sup> ), 2x (1.5 ... 4 mm <sup>2</sup> )
— finely stranded with core end processing	1x (1.5 ... 4 mm <sup>2</sup> ), 2x (1.5 ... 4 mm <sup>2</sup> )
<b>tightening torque</b>	
• for main contacts with screw-type terminals	1.85 N·m
• for auxiliary contacts with screw-type terminals	1.85 N·m
<b>design of the thread of the connection screw</b>	
• for main contacts	M4
• of the auxiliary and control contacts	M4

#### Approvals Certificates

General Product Approval	Test Certificates	other	Environment
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[Type Test Certificates/Test Report](#)

[Confirmation](#)

[Environmental Confirmations](#)

#### Further information

##### 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](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7025-2AA01-0AP0&lang=en)

##### Characteristic: Tripping characteristics, I<sup>2</sup>t, 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>



