



3P Power Contactor AC3:50A 1NO+1NC AC220V 50Hz Main circuit: Screw  
Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
<b>General technical data</b>	
size of contactor	3
product extension auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	22.176 W
• per pole	7.392 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	8 kV
• of auxiliary circuit rated value	6 kV
protection class IP	
• on the front	IP20
mechanical service life (operating cycles)	
• of contactor typical	5 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	07/01/2022
<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	80 A
• at AC-1 up to 690 V	
— at ambient temperature 40 °C rated value	80 A
— at ambient temperature 60 °C rated value	65 A
• at AC-3	
— at 400 V rated value	50 A
— at 690 V rated value	24 A

<b>operating power</b>	
<ul style="list-style-type: none"> <li>at AC-3 <ul style="list-style-type: none"> <li>at 400 V rated value</li> <li>at 690 V rated value</li> </ul> </li> </ul>	22 kW 22 kW
<b>no-load switching frequency</b>	
<ul style="list-style-type: none"> <li>at AC</li> </ul>	1 200 1/h
<b>operating frequency</b>	
<ul style="list-style-type: none"> <li>at AC-1 maximum</li> <li>at AC-3 maximum</li> </ul>	600 1/h 600 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>	
<ul style="list-style-type: none"> <li>at 50 Hz rated value</li> </ul>	220 V
<b>operating range factor control supply voltage rated value of magnet coil at AC</b>	
<ul style="list-style-type: none"> <li>at 50 Hz</li> </ul>	0.85 ... 1.1
<b>apparent pick-up power of magnet coil at AC</b>	
<ul style="list-style-type: none"> <li>at 50 Hz</li> </ul>	230 VA
<b>inductive power factor with closing power of the coil</b>	
<ul style="list-style-type: none"> <li>at 50 Hz</li> </ul>	0.75
<b>apparent holding power of magnet coil at AC</b>	
<ul style="list-style-type: none"> <li>at 50 Hz</li> </ul>	32 VA
<b>inductive power factor with the holding power of the coil</b>	
<ul style="list-style-type: none"> <li>at 50 Hz</li> <li>at 60 Hz</li> </ul>	0.3 0.3
closing delay at AC	17 ... 29 ms
opening delay at AC	6 ... 15 ms
<b>Auxiliary circuit</b>	
<b>number of NC contacts for auxiliary contacts</b>	
<ul style="list-style-type: none"> <li>instantaneous contact</li> </ul>	1
<b>number of NO contacts for auxiliary contacts</b>	
<ul style="list-style-type: none"> <li>instantaneous contact</li> </ul>	1
operational current at AC-12 maximum	10 A
<b>operational current at AC-15</b>	
<ul style="list-style-type: none"> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul>	6 A 3 A 2 A 1 A
<b>operational current at DC-12</b>	
<ul style="list-style-type: none"> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> </ul>	6 A 3 A 1 A
<b>operational current at DC-13</b>	
<ul style="list-style-type: none"> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul>	6 A 1 A 0.3 A 0.1 A
<b>Short-circuit protection</b>	
<b>design of the fuse link</b>	
<ul style="list-style-type: none"> <li>for short-circuit protection of the main circuit <ul style="list-style-type: none"> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> </ul> </li> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gG: 100 A fuse gG: 80 A 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 or 75 mm standard mounting rail according to DIN EN 60715
<b>height</b>	127.5 mm
<b>width</b>	74.5 mm
<b>depth</b>	113 mm
<b>Connections/ Terminals</b>	

<b>type of electrical connection</b> <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control circuit</li> </ul>	screw-type terminals screw-type terminals
type of connectable conductor cross-sections for main contacts <ul style="list-style-type: none"> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> </ul>	1x (2.5 ... 25 mm <sup>2</sup> ), 2x (2.5 ... 16 mm <sup>2</sup> ) 1x (2.5 ... 25 mm <sup>2</sup> ), 2x (2.5 ... 10 mm <sup>2</sup> )
<b>type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> </ul>	1x (1 ... 4 mm <sup>2</sup> ), 2x (1 ... 4 mm <sup>2</sup> ) 1x (1 ... 2.5 mm <sup>2</sup> ), 2x (1 ... 1.5 mm <sup>2</sup> )
<b>tightening torque</b> <ul style="list-style-type: none"> <li>• for main contacts with screw-type terminals</li> <li>• for auxiliary contacts with screw-type terminals</li> </ul>	5 N·m 1.2 N·m
<b>design of the thread of the connection screw</b> <ul style="list-style-type: none"> <li>• for main contacts</li> <li>• of the auxiliary and control contacts</li> </ul>	M8 M3.5

#### 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- 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=3MT7050-3AA11-0AM0>

##### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7050-3AA11-0AM0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3MT7050-3AA11-0AM0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3MT7050-3AA11-0AM0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7050-3AA11-0AM0&lang=en)

##### Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3MT7050-3AA11-0AM0/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7050-3AA11-0AM0&objecttype=14&gridview=view1>



