



3P Power Contactor AC3:170A AC 220V 50 Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	6
power loss [W] for rated value of the current at AC in hot operating state	68.4 W
• per pole	22.8 W
insulation voltage	
• of main circuit with degree of pollution 3 rated value	1 000 V
degree of pollution	3
surge voltage resistance	
• of main circuit rated value	8 kV
protection class IP	
• on the front	IP00
• of the terminal	IP00
mechanical service life (operating cycles)	
• of contactor typical	3
electrical endurance (operating cycles)	600 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	11/07/2022
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	1 000 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated value	210 A
• at AC-3	
— at 400 V rated value	170 A
— at 690 V rated value	170 A
operating power	
• at AC-3	
— at 400 V rated value	90 kW

— at 690 V rated value	156 kW	
no-load switching frequency		
• at AC	5 000 1/h	
operating frequency		
• at AC-1 maximum	800 1/h	
• at AC-3 maximum	700 1/h	
Control circuit/ Control		
type of voltage	AC	
type of voltage of the control supply voltage	AC	
control supply voltage at AC		
• at 50 Hz rated value	220 V	
control supply voltage frequency		
• 1 rated value	50 Hz	
operating range factor control supply voltage rated value of magnet coil at AC		
• at 50 Hz	0.85	
apparent pick-up power of magnet coil at AC		
• at 50 Hz	910 VA	
inductive power factor with closing power of the coil		
• at 50 Hz	0.38	
apparent holding power of magnet coil at AC		
• at 50 Hz	65 VA	
inductive power factor with the holding power of the coil		
• at 50 Hz	0.26	
closing delay at AC	25 ... 40 ms	
opening delay at AC	10 ... 30 ms	
Auxiliary circuit		
number of NC contacts for auxiliary contacts		
• attachable	4	
Short-circuit protection		
design of the fuse link		
• for short-circuit protection of the main circuit		
— with type of coordination 1 required	fuse gG: 400 A	
— with type of assignment 2 required	Fuse gG: 250 A	
mounting position	22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side	
fastening method	screw fixing	
height	180 mm	
width	135 mm	
depth	185 mm	
required spacing for grounded parts at the side	10 mm	
Connections/ Terminals		
type of electrical connection		
• for main current circuit	Connection bar	
type of connectable conductor cross-sections for main contacts		
• solid or stranded	2x (50 ... 120 mm²)	
• finely stranded with core end processing	2x (35 ... 95 mm²)	
design of the thread of the connection screw		
• of the auxiliary and control contacts	M3.5 (Control)	
Safety related data		
product function		
• positively driven operation according to IEC 60947-5-1	No	
Electrical Safety		
touch protection on the front according to IEC 60529	IP00	
Approvals Certificates		
General Product Approval	other	Environment



[Confirmation](#)

[Environmental Con-
firmations](#)

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=3MT7170-6AA00-0AM0>

Cax online generator

<http://support.automation.siemens.com/VW/CAXorder/default.aspx?lang=en&mlfb=3MT7170-6AA00-0AM0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3MT7170-6AA00-0AM0>

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

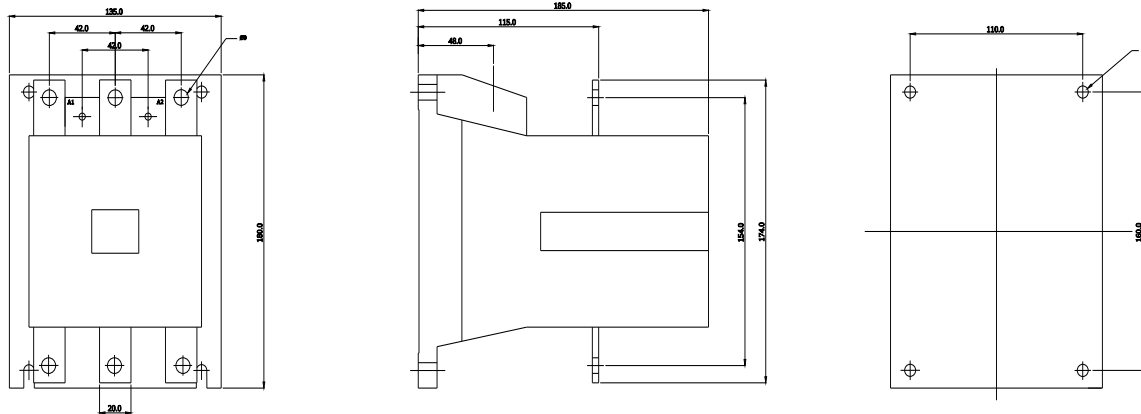
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7170-6AA00-0AM0&lang=en

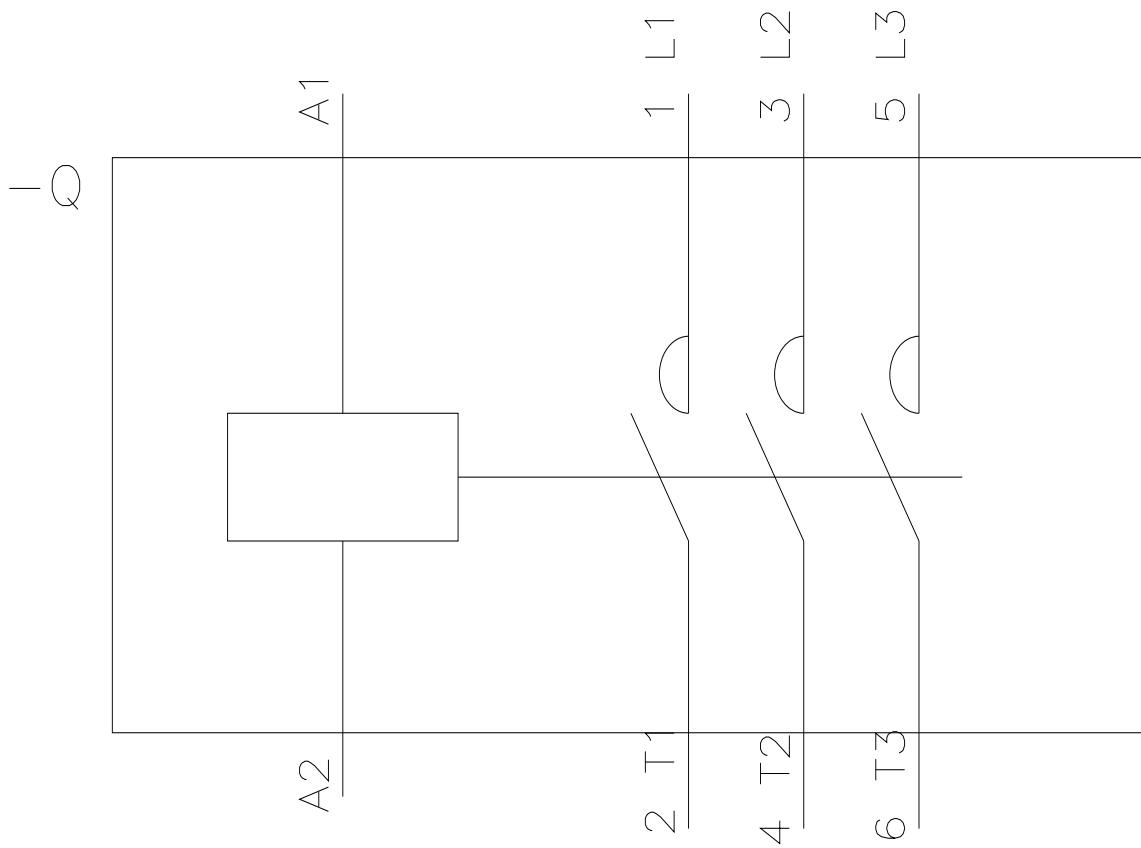
Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3MT7170-6AA00-0AM0/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7170-6AA00-0AM0&objecttype=14&gridview=view1>





last modified:

8/10/2023 