

SIEMENS

Data sheet

3MT7170-6AA00-0AP0



3P Power Contactor AC3:170A AC 230V 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
• at AC in hot operating state 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
Net Weight	4.9 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	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 - at 690 V rated value	90 kW	
	156 kW	
no-load switching frequency		
at AC	5 000 1/h	
operating frequency		
- at AC-1 maximum - at AC-3 maximum	800 1/h	
	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	230 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 - with type of coordination 2 required	fuse gG: 400 A	
	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 - finely stranded with core end processing	2x (50 ... 120 mm²)	
	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 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=3MT7170-6AA00-0AP0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3MT7170-6AA00-0AP0>

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

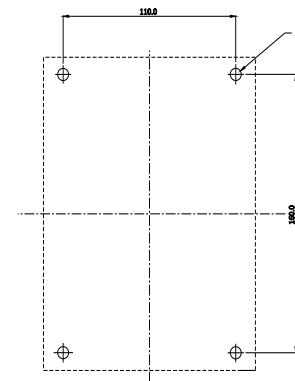
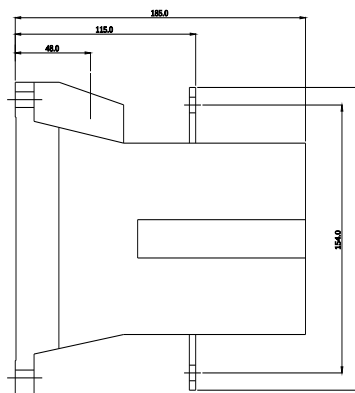
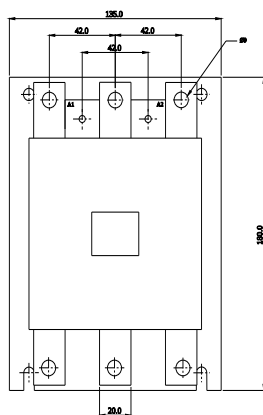
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7170-6AA00-0AP0&lang=en

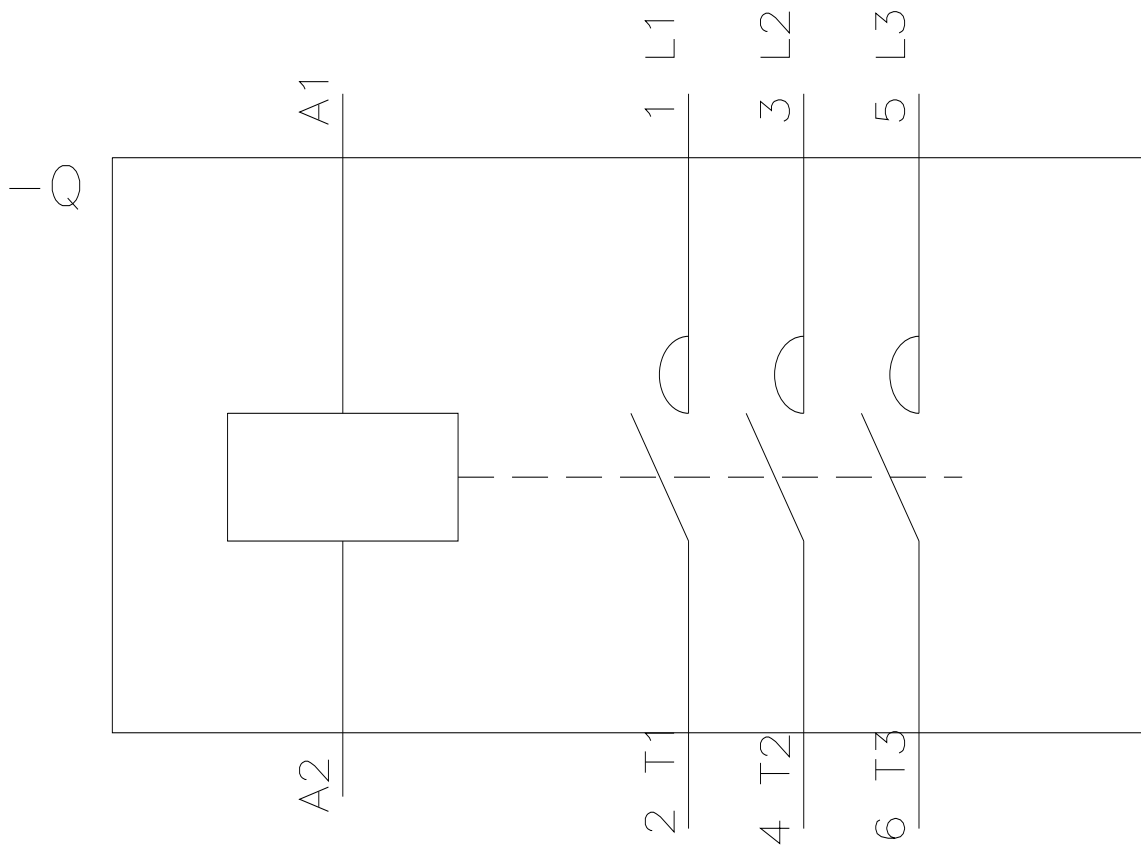
Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7170-6AA00-0AP0>

Characteristic curves

https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>





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4/4/2025 