SIEMENS

Data sheet 3MT7012-0AA10-0AP0

3P Power Contactor AC3:12A 1NO AC230V 50Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	7.5 W
● per pole	2.5 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	0.354 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	25 A
● at AC-1 up to 690 V	
— at ambient temperature 40 °C rated value	25 A
— at ambient temperature 60 °C rated value	19 A
● at AC-3	
— at 400 V rated value	12 A

— at 690 V rated value	6.7 A
operating power	
● at AC-3	
— at 400 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
no-load switching frequency	
● at AC	1 800 1/h
operating frequency	
● 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	
● 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	70 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	11 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	9 ... 25 ms
opening delay at AC	4 ... 15 ms
Auxiliary circuit	
number of NO contacts for auxiliary contacts	
● instantaneous contact	1
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: 32 A
— with type of assignment 2 required	fuse gG: 25 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
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	74.5 mm
width	45 mm
depth	82 mm
Connections/ Terminals	
type of electrical connection	
● for main current circuit	screw-type terminals

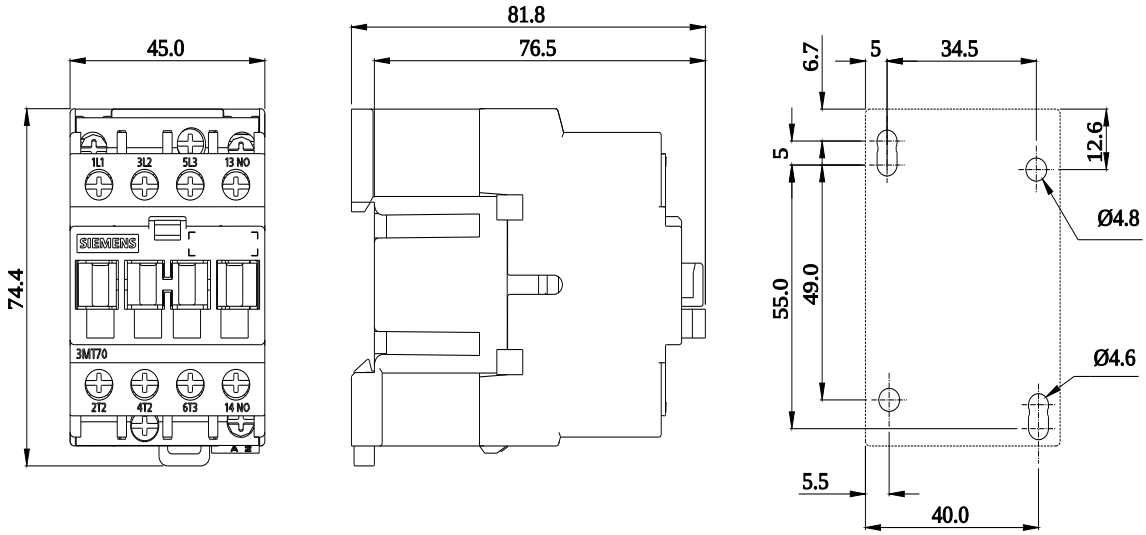
● for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
● solid or stranded	1x (1 ... 4 mm²), 2x (1 ... 4 mm²)
● finely stranded with core end processing	1x (1 ... 4 mm²), 2x (1 ... 1.5 mm²)
type of connectable conductor cross-sections	
● for auxiliary contacts	
— solid or stranded	1x (1 ... 4 mm²), 2x (1 ... 4 mm²)
— finely stranded with core end processing	1x (1 ... 2.5 mm²), 2x (1 ... 1.5 mm²)
tightening torque	
● for main contacts with screw-type terminals	1.2 N·m
● for auxiliary contacts with screw-type terminals	1.2 N·m
design of the thread of the connection screw	
● for main contacts	M3.5
● of the auxiliary and control contacts	M3.5

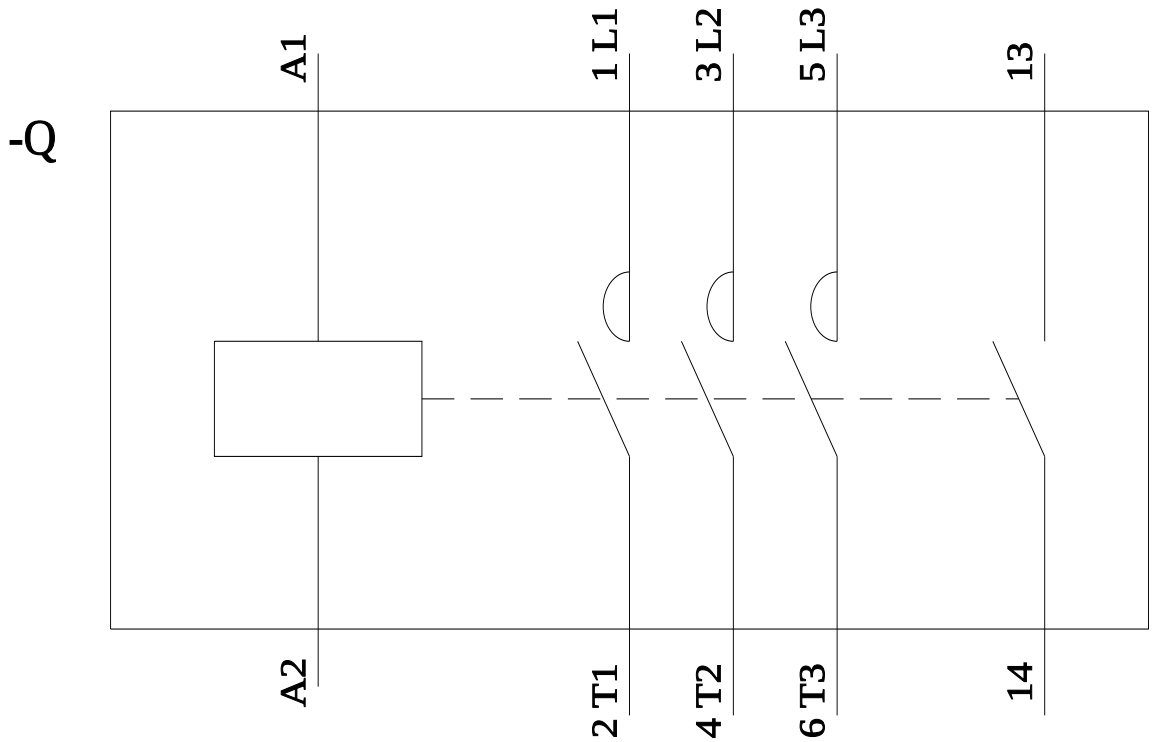
Approvals Certificates

General Product Approval	Test Certificates	other	Environment
CE EG-Konf.	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=3MT7012-0AA10-0AP0
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7012-0AA10-0AP0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7012-0AA10-0AP0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7012-0AA10-0AP0&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3MT7012-0AA10-0AP0/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7012-0AA10-0AP0&objecttype=14&gridview=view1





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