3MT7040-3AA11-0AN2

Data sheet



3P Power Contactor AC3:40A 1NO+1NC AC220V 50/60Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA	
product designation	Power contactor	
General technical data		
size of contactor	3	
product extension auxiliary switch	Yes	
power loss [W] for rated value of the current at AC in hot operating state	16.2 W	
• per pole	5.4 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	
Weight	1.082 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 	60 A	
• at AC-1 up to 690 V		
— at ambient temperature 40 °C rated value	60 A	
 at ambient temperature 60 °C rated value 	50 A	
• at AC-3		
— at 400 V rated value	40 A	

— at 690 V rated value	24 A
operating power	
• at AC-3	
— at 400 V rated value	18.5 kW
— at 690 V rated value	22 kW
no-load switching frequency	
• at AC	1 200 1/h
operating frequency	
• at AC-1 maximum	600 1/h
• at AC-3 maximum	600 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	AU
at 50 Hz rated value	220 V
at 60 Hz rated value	220 V
operating range factor control supply voltage rated value of	220 V
magnet coil at AC	
● at 50 Hz	0.85 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	280 VA
• at 60 Hz	280 VA
inductive power factor with closing power of the coil	
at 50 Hz	0.75
• at 60 Hz	0.75
	0.75
apparent holding power of magnet coil at AC	22.1/A
• at 50 Hz	32 VA
• at 60 Hz	31 VA
inductive power factor with the holding power of the coil	0.2
• at 50 Hz	0.3
• at 60 Hz	0.3
closing delay at AC	17 29 ms
opening delay at AC	6 15 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	
instantaneous contact	1
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: 80 A
with type of coordination 1 required - with type of assignment 2 required	fuse gG: 63 A
— with type of assignment a regulied	103C gG. 03 A
	fuse aG: 10 A
• for short-circuit protection of the auxiliary switch required	fuse gG: 10 A
	fuse gG: 10 A 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 or 75 mm standard mounting rail according to DIN EN 60715
height	127.5 mm
width	74.5 mm
depth	113 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 (2.5 25 mm²), 2x (2.5 16 mm²)
 finely stranded with core end processing 	1x (2.5 25 mm²), 2x (2.5 10 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 	5 N·m
 for auxiliary contacts with screw-type terminals 	1.2 N·m
design of the thread of the connection screw	
for main contacts	M8
 of the auxiliary and control contacts 	M3.5
Approvals Certificates	
General Product Approval Test Certificates other	Environment



proval

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=3MT7040-3AA11-0AN2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7040-3AA11-0AN2

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

https://support.industry.siemens.com/cs/ww/en/ps/3MT7040-3AA11-0AN2

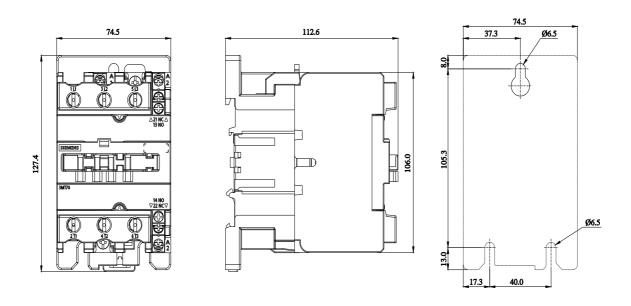
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7040-3AA11-0AN2&lang=en

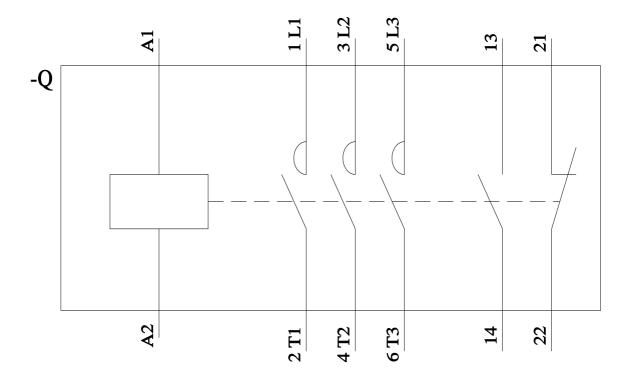
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3MT7040-3AA11-0AN2/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7040-3AA11-0AN2&objecttype=14&gridview=view1





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