3MT7018-1AA10-0AM0

Data sheet



3P Power Contactor AC3:18A 1NO AC220V 50Hz Main circuit: Screw Auxiliary circuit: Screw

product brand name	SINOVA
product designation	Power contactor
General technical data	
size of contactor	1
product extension auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	9.3 W
• per pole	3.1 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
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 	32 A
• at AC-1 up to 690 V	
 at ambient temperature 40 °C rated value 	32 A
— at ambient temperature 60 °C rated value	25 A
• at AC-3	
— at 400 V rated value	18 A
— at 690 V rated value	10.4 A

operating power	
• at AC-3	
— at 400 V rated value	7.5 kW
— at 690 V rated value	7.5 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	220 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 at 690 V rated value	1A
operational current at DC-12	
• at 24 V rated value	6 A
at 24 V rated value at 110 V rated value	3 A
at 110 V rated value at 220 V rated value	1A
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operational current at DC-13	6.0
at 24 V rated value at 110 V rated value	6 A
at 110 V rated value at 220 V rated value	1.4
at 220 V rated value	0.3 A
at 600 V rated value Short circuit protection	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: 40 A
— with type of assignment 2 required	fuse gG: 32 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	87 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control circuit	screw-type terminals
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type of connectable conductor cross-sections for main contacts	
 solid or stranded 	1x (1.5 6 mm²), 2x (1.5 6 mm²)
 finely stranded with core end processing 	1x (1 6 mm²), 2x (1 2.5 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 	1.7 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
Annrovals Certificates	

General Product Ap-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)

all.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7018-1AA10-0AM0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7018-1AA10-0AM0

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

https://support.industry.siemens.com/cs/ww/en/ps/3MT7018-1AA10-0AM0

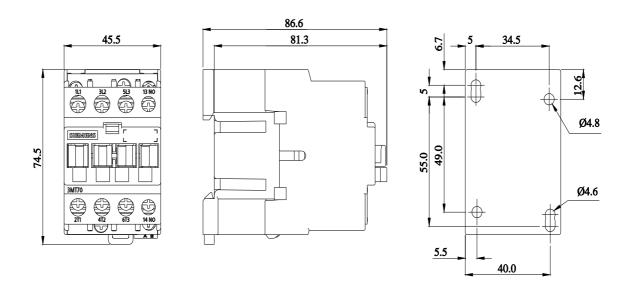
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

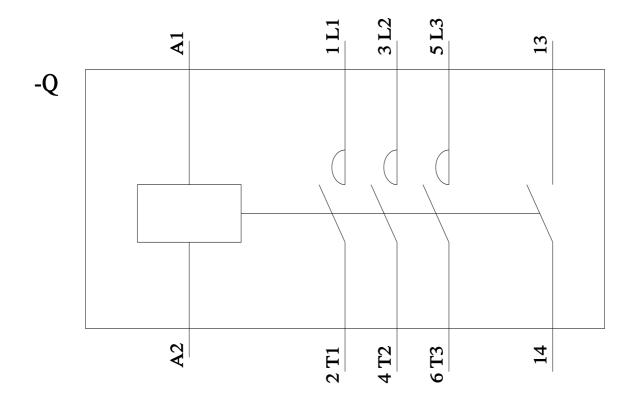
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3MT7018-1AA10-0AM0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7018-1AA10-0AM0&objecttype=14&gridview=view1





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