3MT7018-1AA10-0AB0

Data sheet



3P Power Contactor AC3:18A 1NO AC24V 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
Weight	0.373 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 	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

Section Sect	— at 690 V rated value	10.4 A
• all AC-3		1V-7 /\
		7.5 kW
■ at AC 1800 th 1800		
		7.0 KW
operating frequency ■ of AC-7 maximum ■ 300 1/h ■ of BO 1/L ■ of		1 800 1/h
at AC-3 maximum		. 500
# ALCS maximum 150 mile 150		600 1/h
type of voltage of the control supply voltage at AC at 50 byte voltage at 50 byt		
type of voltage of the control supply voltage at AC at 50 byte voltage at 50 byt	Control circuit/ Control	
control supply voltage at AC at 50 Hz rated value at 50 Hz rated value at 50 Hz apparent pick-up power of magnet coil at AC at 50 Hz at 50 H		AC
e at 50 Hz rated value		
magnet coll at AC		24 V
apparent pick-up power of magnet coil at AC a 150 HZ at 50 HZ at 60 HZ closing delay at AC buildiary closult at 50 HZ at 50 HZ at 60 HZ closing delay at AC closing delay at AC closing delay at AC dosing delay at AC at 50 HZ at 50 HZ at 60 HZ closing delay at AC dosing delay at AC dos dosing delay	operating range factor control supply voltage rated value of magnet coil at AC	
* at 50 Hz	● at 50 Hz	0.85 1.1
inductive power factor with closing power of the coil at 50 Hz a	apparent pick-up power of magnet coil at AC	
• at 50 Hz apparent holding power of magnet coil at AC • at 50 Hz inductive power factor with the holding power of the coil • at 50 Hz 0.3 • at 60 Hz 0.3 • at 60 Hz 0.3 closing delay at AC 9 25 ms opening delay at AC 9 25 ms opening delay at AC 10 years 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 • at 400 V rated value • at 500 V rated value • at 250 V rated value • at 220 V rated value • at 360 O rated value • at 360 V rated value • at 360 V rated value • at 37 V rated value • at 38		70 VA
at 50 Hz 11 VA intuctive power factor with the holding power of the coil at 50 Hz 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	inductive power factor with closing power of the coil	
• at 50 Hz		0.75
inductive power factor with the holding power of the coil at 60 Hz ola at 60 Hz closing delay at AC opening delay at AC opening delay at AC opening delay at AC instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 100 V rated value at 220 V rated value at 110 V rated value at 120 V rated value at 110 V rated value at 120	apparent holding power of magnet coil at AC	
		11 VA
• at 60 Hz	inductive power factor with the holding power of the coil	
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uxiliary circuit number of NO contacts for auxiliary contacts • instantaneous contact • instantaneous contact operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 680 V rated value • at 680 V rated value • at 690 V rated value • at 22 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 20 V rated value • at 20 V rated value • at 6A • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 700 V rated value • at 600 V rated value • at 60		
number of NO contacts for auxiliary contacts		4 15 MS
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operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 7 rated value • at 10 V rated value • at 110 V rated value • at 220 V rated value • at 3 A • at 220 V rated value • at 10 V rated value • at 600 V rated value • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 2 required • fuse gG: 32 A • for short-circuit protection of the auxiliary switch required fuse gG: 32 A • for short-circuit protection of the auxiliary switch required fuse gG: 32 A • for short-circuit protection of the auxiliary switch required fuse gG: 30 A * fuse		4
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 24 V rated value • at 110 V rated value • at 120 V rated value • at 120 V rated value • at 220 V rated value • at 100 V rated value • at 100 V rated value • at 200 V rated value • at 600 V rated value • at 100 V rated va		
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	•	6.4
• at 690 V rated value operational current at DC-12 • at 24 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 26 V rated value • at 27 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 29 V rated value • at 20 V rated value • at 20 V rated value • at 600 V rated value • at 600 V rated value • for short-circuit protection		
e at 24 V rated value 6 A 3 A 4 4 V rated value 9 A 1 A 9 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A		
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• at 220 V rated value operational current at DC-13 • at 24 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • o.3 A • at 600 V rated value • for 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 — with type of coordination 2 required fuse gG: 32 A • for short-circuit protection of the auxiliary switch required fuse gG: 10 A mounting position fastening method fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 74.5 mm width depth 87 mm onnections/ Terminals type of electrical connection		
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at 220 V rated value at 600 V rated value bort-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: 40 A 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 screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 74.5 mm width 45 mm depth 87 mm onnections/ Terminals type of electrical connection	•	6 A
at 600 V rated value bort-circuit protection design of the fuse link	• at 110 V rated value	1 A
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 • for short-circuit protection of the auxiliary switch required fuse gG: 32 A • for short-circuit protection of the auxiliary switch required 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 depth 87 mm onnections/ Terminals type of electrical connection	• at 220 V rated value	0.3 A
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: 32 A • for short-circuit protection of the auxiliary switch required 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 onnections/ Terminals type of electrical connection	• at 600 V rated value	0.1 A
for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 2 required — with type of coordination 2 required • for short-circuit protection of the auxiliary switch required • fuse gG: 32 A • for short-circuit protection of the auxiliary switch required	Short-circuit protection	
for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 2 required — with type of coordination 2 required • for short-circuit protection of the auxiliary switch required • fuse gG: 32 A • for short-circuit protection of the auxiliary switch required	design of the fuse link	
— with type of coordination 2 required fuse gG: 32 A 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 onnections/ Terminals type of electrical connection	• for short-circuit protection of the main circuit	
● for short-circuit protection of the auxiliary switch required 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 onnections/ Terminals type of electrical connection	 — with type of coordination 1 required 	fuse gG: 40 A
mounting position 22.5° inclination forward and backward & 360° rotation, in relation to normal vertical mounting plane screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 74.5 mm width 45 mm depth 87 mm onnections/ Terminals type of electrical connection	 — with type of coordination 2 required 	fuse gG: 32 A
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height 74.5 mm width 45 mm depth 87 mm onnections/ Terminals type of electrical connection	mounting position	
width 45 mm depth 87 mm onnections/ Terminals type of electrical connection	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
depth 87 mm onnections/ Terminals type of electrical connection	height	74.5 mm
onnections/ Terminals type of electrical connection	width	45 mm
type of electrical connection	depth	87 mm
	Connections/ Terminals	
• for main current circuit screw-type 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 (1.5 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
Approvals 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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7018-1AA10-0AB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7018-1AA10-0AB0

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

https://support.industry.siemens.com/cs/ww/en/ps/3MT7018-1AA10-0AB0

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

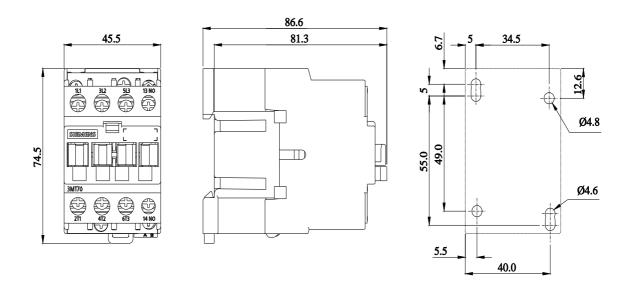
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7018-1AA10-0AB0&lang=en

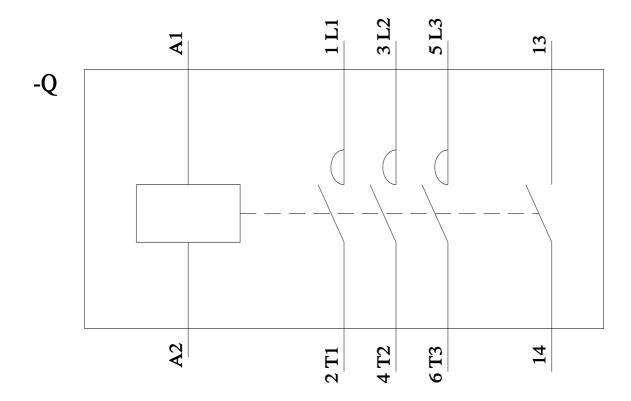
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3MT7018-1AA10-0AB0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7018-1AA10-0AB0&objecttype=14&gridview=view1





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