



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
• at AC in hot operating state 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 (day/month/year)	07/01/2022
Net Weight	0.347 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
operating power	
• at AC-3 — at 400 V rated value — at 690 V rated value	7.5 kW 7.5 kW
no-load switching frequency	
• at AC	1 800 1/h
operating frequency	
• at AC-1 maximum • at AC-3 maximum	600 1/h 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 • at 60 Hz	0.3 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 • at 400 V rated value • at 500 V rated value • at 690 V rated value	6 A 3 A 2 A 1 A
operational current at DC-12	
• at 24 V rated value • at 110 V rated value • at 220 V rated value	6 A 3 A 1 A
operational current at DC-13	
• at 24 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value	6 A 1 A 0.3 A 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 — with type of coordination 2 required • for short-circuit protection of the auxiliary switch required	fuse gG: 40 A 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	87 mm

Connections/ Terminals	
type of electrical connection • for main current circuit • for auxiliary and control circuit	screw-type terminals screw-type terminals
type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing	1x (1.5 ... 6 mm ²), 2x (1.5 ... 6 mm ²) 1x (1 ... 6 mm ²), 2x (1 ... 2.5 mm ²)
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing	1x (1 ... 4mm ²), 2x (1 ... 4mm ²) 1x (1.0 ... 2.5 mm ²), 2x (1.0 ... 1.5 mm ²)
tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals	1.7 N·m 1.2 N·m
design of the thread of the connection screw • for main contacts • of the auxiliary and control contacts	M3.5 M3.5

Approvals Certificates

Environment	General Product Approval	Test Certificates	other
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[Environmental Confirmations](#)



[Type Test Certificates/Test Report](#)

[Confirmation](#)

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=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, ...)

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7018-1AA10-0AM0&lang=en

Cax online generator

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

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>)



