SIEMENS

Data sheet

3MT7300-7AA00-0AM0



3P Power Contactor AC3:300A AC 220V 50 Hz Main circuit: Screw Auxiliary circuit: Screw

needuct brand name	SINOVA
product brand name	Sinova Bawar contactor
product designation	Power contactor
General technical data	•
Size of contactor	
power loss [W] for rated value of the current at AC in not operating state	101.4 W
per pole	33.8 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
degree of pollution	3
surge voltage resistance	
of main circuit rated value	8 kV
protection class IP	
• on the front	IP00
of the terminal	IP00
mechanical service life (operating cycles)	
 of contactor typical 	3
electrical endurance (operating cycles)	600 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	11/07/2022
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	1 000 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated value	300 A
• at AC-3	
— at 400 V rated value	300 A
— at 690 V rated value	250 A
operating power	
• at AC-3	
— at 400 V rated value	160 kW

— at 690 V rated value	235 kW
no-load switching frequency	
• at AC	3 000 1/h
operating frequency	
• at AC-1 maximum	750 1/h
• at AC-3 maximum	500 1/h
Control circuit/ Control	
type of voltage	AC
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	220 V
control supply voltage frequency	
• 1 rated value	50 Hz
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.85
apparent pick-up power of magnet coil at AC	
• at 50 Hz	1 440 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.34
apparent holding power of magnet coil at AC	
• at 50 Hz	95 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.24
closing delay at AC	25 40 ms
opening delay at AC	10 30 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	
	4
Short-circuit protection	-
design of the fuse link	
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design of the fuse link o for short-circuit protection of the main circuit with two of coordination 1 required	fueo aC: 500 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: 500 A
design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required mounting position	fuse gG: 500 A Fuse gG: 400 A
design of the fuse link • for short-circuit protection of the main circuit	fuse gG: 500 A Fuse gG: 400 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required mounting position fastening method	fuse gG: 500 A Fuse gG: 400 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required mounting position fastening method height	fuse gG: 500 A Fuse gG: 400 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 205 mm
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required mounting position fastening method height width	fuse gG: 500 A Fuse gG: 400 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 205 mm 150 mm
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required mounting position fastening method height width depth	fuse gG: 500 A Fuse gG: 400 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 205 mm 150 mm
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required mounting position fastening method height width depth required spacing for grounded parts at the side	fuse gG: 500 A Fuse gG: 400 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 205 mm 150 mm 198 mm 10 mm
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required mounting position fastening method height width depth required spacing for grounded parts at the side Connections/ Terminals	fuse gG: 500 A Fuse gG: 400 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 205 mm 150 mm 198 mm 10 mm
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required mounting position fastening method height width depth required spacing for grounded parts at the side Connections/ Terminals type of electrical connection	fuse gG: 500 A Fuse gG: 400 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 205 mm 150 mm 198 mm 10 mm
design of the fuse link • for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required mounting position fastening method height width depth required spacing for grounded parts at the side Connections/Terminals type of electrical connection • for main current circuit	fuse gG: 500 A Fuse gG: 400 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 205 mm 150 mm 198 mm 10 mm
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required mounting position fastening method height width depth required spacing for grounded parts at the side Connections/ Terminals type of electrical connection • for main current circuit type of connectable conductor cross-sections for main contacts	fuse gG: 500 A Fuse gG: 400 A 22.5° Inclination forward and backward & 90° to right / 90° to left, in relation to normal vertical mounting plane i.e. coil terminals always on top side screw fixing 205 mm 150 mm 198 mm 10 mm
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EG-Konf.

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=3MT7300-7AA00-0AM0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7300-7AA00-0AM0

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

https://support.industry.siemens.com/cs/ww/en/ps/3MT7300-7AA00-0AM0

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7300-7AA00-0AM0&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3MT7300-7AA00-0AM0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7300-7AA00-0AM0&objecttype=14&gridview=view1









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