



50 kvar Capacitor duty contactor 1NO + 2NC aux contact 240 V AC, 50/60 Hz coil

product brand name	SINOVA
product designation	Capacitor contactor
product type designation	3MT7
General technical data	
size of contactor	5
product extension auxiliary switch	No
insulation voltage	
• of main circuit with degree of pollution 3 rated value	690 V
• of auxiliary circuit with degree of pollution 3 rated value	690 V
protection class IP	
• on the front	IP20
• of the terminal	IP00
mechanical service life (operating cycles)	
• of the contactor with added auxiliary switch block typical	100 000
electrical endurance (operating cycles)	100 000
reference code according to IEC 81346-2	Q
Weight	1.5 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
• during operation	-5 ... +40 °C
• during storage	-60 ... +80 °C
Main circuit	
number of poles	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operational current	
• at AC-6b at 440 V at ambient temperature 40 °C rated value	70 A
operating reactive power	
• at 240 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	29 kvar
• at 400/415 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	50 kvar
• at 440 V at 50/60 Hz 3 phase at ambient temperature 40 °C rated value	53.3 kvar
• at 600 V at 60 Hz 3 phase at ambient temperature 40 °C rated value	60 kvar
no-load switching frequency	
• at AC	3 600 1/h
operating frequency at AC-6b	
• at 240 V maximum	100 1/h

• at 400 V maximum	100 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	240 V
• at 50 Hz rated value	240 ... 240 V
• at 60 Hz rated value	240 V
• at 60 Hz rated value	240 ... 240 V
control supply voltage frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
operating range factor control supply voltage rated value of 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	250 VA
apparent holding power of magnet coil at AC	37 VA
closing delay at AC	14 ... 25 ms
opening delay at AC	4 ... 15 ms
arcing time	4 ... 15 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
• attachable	0
• instantaneous contact	2
number of NO contacts for auxiliary contacts	1
• attachable	0
• instantaneous contact	1
operational current of auxiliary contacts at AC-15	
• at 230 V	2.09 A
• at 400 V	1.25 A
operational current of auxiliary contacts at DC-13	
• at 24 V	5 A
• at 110 V	0.59 A
• at 125 V	0.59 A
• at 220 V	0.28 A
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
• for short-circuit protection of the main circuit — with type of coordination 1 required	gG: 80 A (440 V, 50 kA)
• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm and 75 mm DIN rail
height	180 mm
width	75 mm
depth	150 mm
required spacing for grounded parts at the side	12 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)
connectable conductor cross-section for main contacts	
• solid or stranded	2.5 ... 25 mm²
• finely stranded with pin-end connector	35 ... 2.5 mm²
• finely stranded without core end processing	2.5 ... 35 mm²
connectable conductor cross-section for auxiliary contacts	
• solid or stranded	1 ... 4 mm²

<ul style="list-style-type: none"> finely stranded with core end processing finely stranded without core end processing 	1 ... 4 mm ² 1 ... 4 mm ²
type of connectable conductor cross-sections <ul style="list-style-type: none"> for auxiliary contacts <ul style="list-style-type: none"> — solid or stranded — finely stranded with core end processing — finely stranded without core end processing for AWG cables for auxiliary contacts 	1x (1 ... 4mm ²), 2x (1 ... 4mm ²) 1x (1 ... 4 mm ²), 2x (1 ... 4 mm ²) 1x (1 ... 4 mm ²), 2x (1 ... 2.5 mm ²) 14
AWG number as coded connectable conductor cross section <ul style="list-style-type: none"> for main contacts for auxiliary contacts 	10 ... 3 14 ... 14
tightening torque <ul style="list-style-type: none"> for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals 	5 N·m 1.2 N·m
design of the thread of the connection screw <ul style="list-style-type: none"> for main contacts of the auxiliary and control contacts 	M8 M3.5

Safety related data

product function <ul style="list-style-type: none"> mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 	No No
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Electrical Safety

protection class IP on the front according to IEC 60529	IP20
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Approvals Certificates

General Product Approval	other	Environment
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[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=3MT7005-0JA12-6AP2>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7005-0JA12-6AP2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3MT7005-0JA12-6AP2>

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

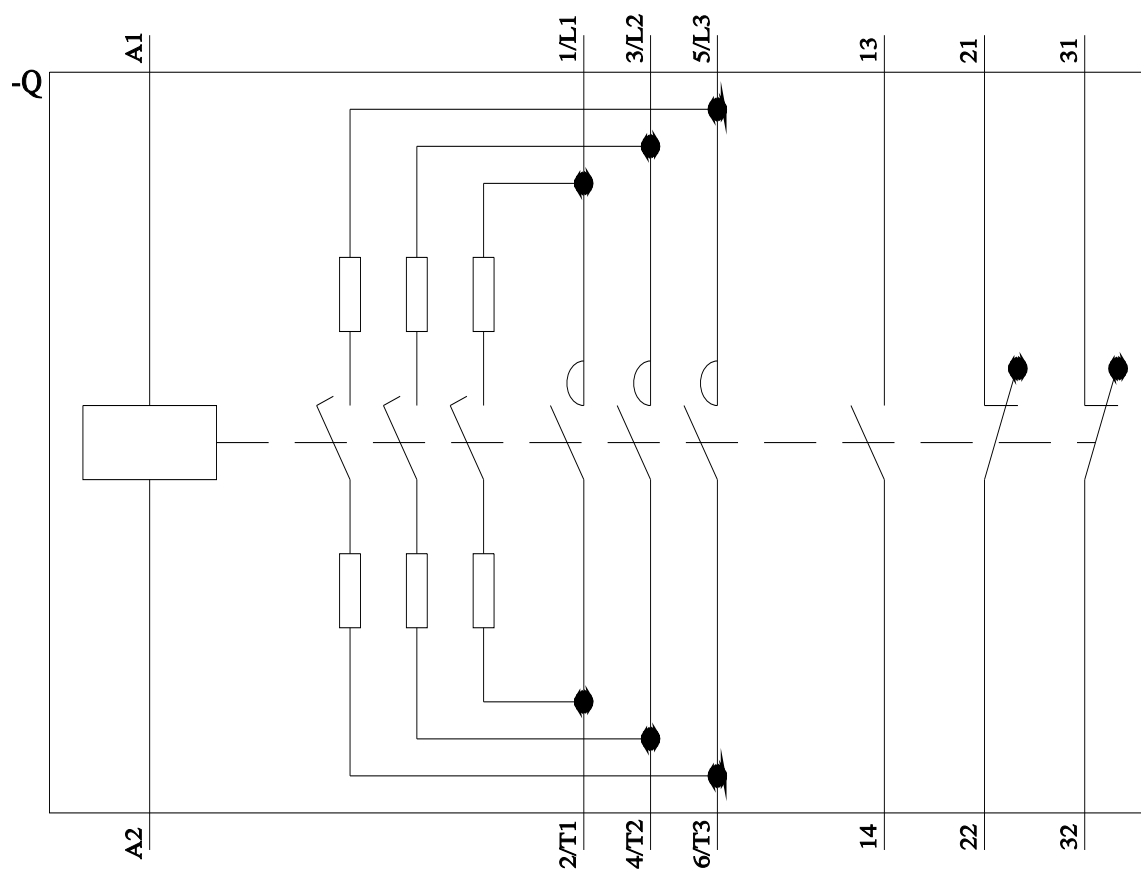
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7005-0JA12-6AP2&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3MT7005-0JA12-6AP2/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7005-0JA12-6AP2&objecttype=14&gridview=view1>



last modified:

4/4/2025 