



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

product brand name	SINOVA
product designation	Capacitor contactor
product type designation	3MT7
<b>General technical data</b>	
size of contactor	7
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	3 kg
<b>Ambient conditions</b>	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
• during operation	-5 ... +40 °C
• during storage	-60 ... +80 °C
<b>Main circuit</b>	
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	144 A
operating reactive power	
• at 240 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	60 kvar
• at 400/415 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	100 kvar
• at 440 V at 50/60 Hz 3 phase at ambient temperature 40 °C rated value	109 kvar
• at 600 V at 60 Hz 3 phase at ambient temperature 40 °C rated value	120 kvar
no-load switching frequency	
• at AC	1 800 1/h
operating frequency at AC-6b	
• at 240 V maximum	100 1/h

• at 400 V maximum	100 1/h
<b>Control circuit/ Control</b>	
<b>type of voltage</b>	AC
<b>type of voltage of the control supply voltage</b>	AC
<b>control supply voltage at AC</b>	
• at 50 Hz rated value	240 V
• at 50 Hz rated value	240 ... 240 V
<b>control supply voltage frequency</b>	
• 1 rated value	50 Hz
<b>operating range factor control supply voltage rated value of magnet coil at AC</b>	
• at 50 Hz	0.85 ... 1.1
<b>apparent pick-up power of magnet coil at AC</b>	250 VA
<b>apparent holding power of magnet coil at AC</b>	37 VA
closing delay at AC	14 ... 25 ms
opening delay at AC	4 ... 15 ms
<b>arcing time</b>	4 ... 15 ms
<b>Auxiliary circuit</b>	
<b>number of NC contacts for auxiliary contacts</b>	2
• attachable	0
• instantaneous contact	2
<b>number of NO contacts for auxiliary contacts</b>	1
• attachable	0
• instantaneous contact	1
<b>operational current of auxiliary contacts at AC-15</b>	
• at 230 V	2.09 A
• at 400 V	1.25 A
<b>operational current of auxiliary contacts at DC-13</b>	
• at 24 V	5 A
• at 110 V	0.59 A
• at 125 V	0.59 A
• at 220 V	0.28 A
<b>contact rating of auxiliary contacts according to UL</b>	A600 / P600
<b>Short-circuit protection</b>	
<b>design of the fuse link</b>	
• for short-circuit protection of the main circuit — with type of coordination 1 required	gG: 200 A (440 V, 50 kA)
• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
<b>mounting position</b>	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
<b>fastening method</b>	screw and snap-on mounting to two 35 mm DIN rails
<b>height</b>	186 mm
<b>width</b>	120 mm
<b>depth</b>	154 mm
required spacing for grounded parts at the side	12 mm
<b>Connections/ Terminals</b>	
<b>type of electrical connection</b>	
• for main current circuit	screw-type terminals
• for auxiliary and control circuit	screw-type terminals
<b>type of connectable conductor cross-sections for main contacts</b>	
• solid or stranded	1x (4 ... 95 mm²), 2x (4 ... 50 mm²)
<b>connectable conductor cross-section for main contacts</b>	
• solid or stranded	4 ... 95 mm²
• finely stranded with pin-end connector	95 ... 4 mm²
• finely stranded without core end processing	4 ... 95 mm²
<b>connectable conductor cross-section for auxiliary contacts</b>	
• solid or stranded	1 ... 4 mm²
• finely stranded with core end processing	1 ... 4 mm²
• finely stranded without core end processing	1 ... 4 mm²
<b>type of connectable conductor cross-sections</b>	
• for auxiliary contacts	

— solid or stranded	1x (1 ... 4mm <sup>2</sup> ), 2x (1 ... 4mm <sup>2</sup> )
— finely stranded with core end processing	1x (1 ... 4 mm <sup>2</sup> ), 2x (1 ... 4 mm <sup>2</sup> )
— finely stranded without core end processing	1x (1 ... 4 mm <sup>2</sup> ), 2x (1 ... 2.5 mm <sup>2</sup> )
• for AWG cables for auxiliary contacts	14
<b>AWG number as coded connectable conductor cross section</b>	
• for main contacts	3 ... 1
• for auxiliary contacts	14 ... 14
<b>tightening torque</b>	
• for main contacts with screw-type terminals	9 N·m
• for auxiliary contacts with screw-type terminals	1.2 N·m
<b>design of the thread of the connection screw</b>	
• for main contacts	M8
• of the auxiliary and control contacts	M3.5

#### Safety related data

<b>product function</b>	
• mirror contact according to IEC 60947-4-1	No
• positively driven operation according to IEC 60947-5-1	No

#### Electrical Safety

<b>protection class IP on the front according to IEC 60529</b>	IP20
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#### Approvals Certificates

<b>General Product Approval</b>	<b>other</b>	<b>Environment</b>
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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=3MT7010-0JA12-6AU0>

##### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7010-0JA12-6AU0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3MT7010-0JA12-6AU0>

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

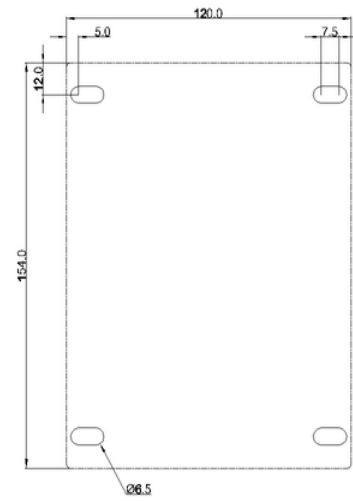
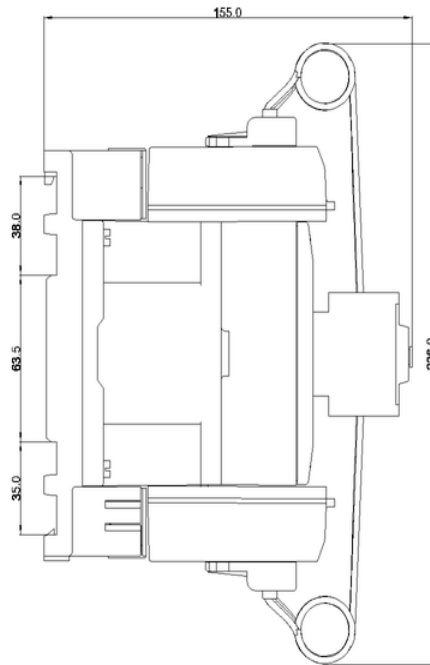
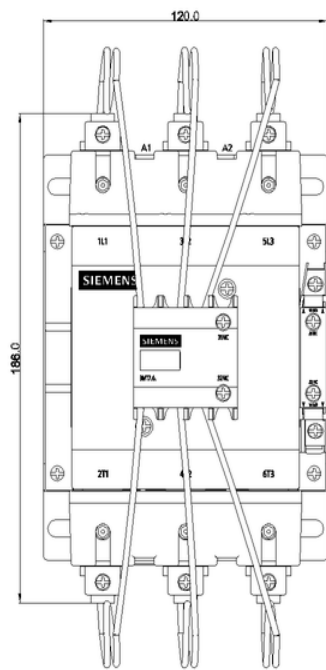
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3MT7010-0JA12-6AU0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7010-0JA12-6AU0&lang=en)

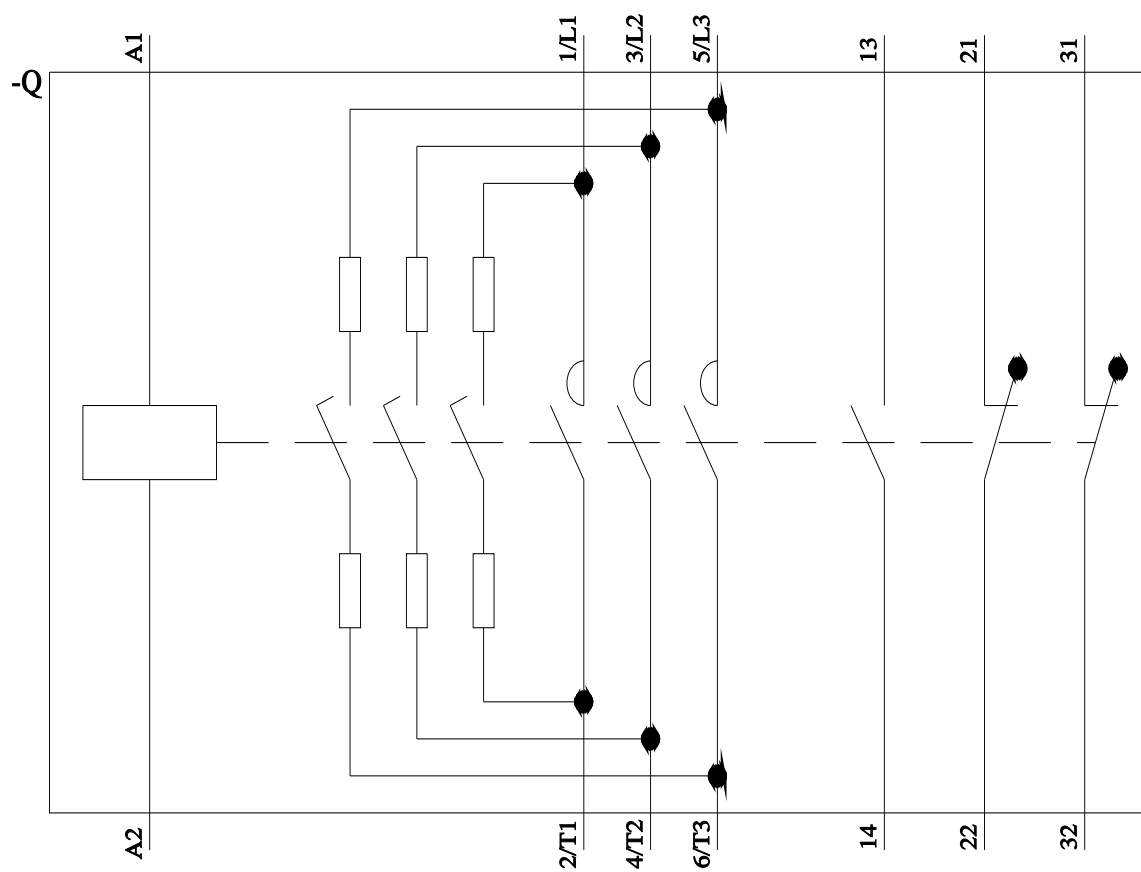
##### Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3MT7010-0JA12-6AU0/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7010-0JA12-6AU0&objecttype=14&gridview=view1>





last modified:

1/17/2024 