

7.5 kvar Capacitor duty contactor 1NO + 1NC aux contact 220 V AC, 50/60 Hz coil

product brand name	SINOVA
product designation	Capacitor contactor
product type designation	3MT7
General technical data	
size of contactor	1
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	200 000
electrical endurance (operating cycles)	200 000
reference code according to IEC 81346-2	Q
Weight	0.5 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
operational current	
• at AC-6b at 440 V at ambient temperature 40 °C rated value	10 A
operating reactive power	
• at 240 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	4.1 kvar
• at 400/415 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	7.5 kvar
• at 440 V at 50/60 Hz 3 phase at ambient temperature 40 °C rated value	7.6 kvar
• at 600 V at 60 Hz 3 phase at ambient temperature 40 °C rated value	10 kvar
no-load switching frequency	
• at AC	3 600 1/h
operating frequency at AC-6b	
• at 240 V maximum	240 1/h
• at 400 V maximum	240 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
• at 50 Hz rated value	220 ... 220 V
• at 60 Hz rated value	220 V
• at 60 Hz rated value	220 ... 220 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	60 VA
apparent holding power of magnet coil at AC	9 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	1
• attachable	0
• instantaneous contact	1
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: 25 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 DIN rail according to DIN EN 50022
height	130 mm
width	45 mm
depth	117 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 (1 ... 4 mm ²), 2x (1 ... 4 mm ²)
connectable conductor cross-section for main contacts	
• solid or stranded	1 ... 4 mm ²
• finely stranded with pin-end connector	4 ... 1 mm ²
• finely stranded without core end processing	1 ... 4 mm ²
connectable conductor cross-section for auxiliary contacts	
• solid or stranded	1 ... 4 mm ²
• finely stranded with core end processing	1 ... 4 mm ²

<ul style="list-style-type: none"> finely stranded without core end processing 	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 ... 4 mm ²), 2x (1 ... 4 mm 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 	14 ... 10 14 ... 14
tightening torque <ul style="list-style-type: none"> for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals 	1.2 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 	M3.5 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
---	----------

Electrical Safety

protection class IP on the front according to IEC 60529	IP20
--	------

Approvals Certificates

General Product Approval	other	Environment
---------------------------------	--------------	--------------------

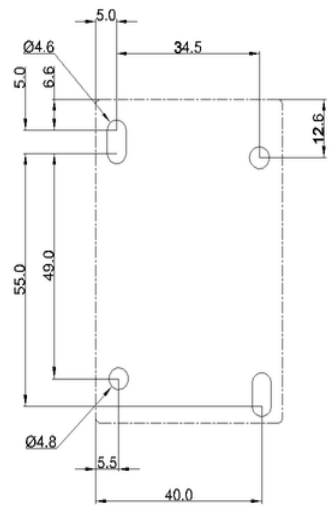
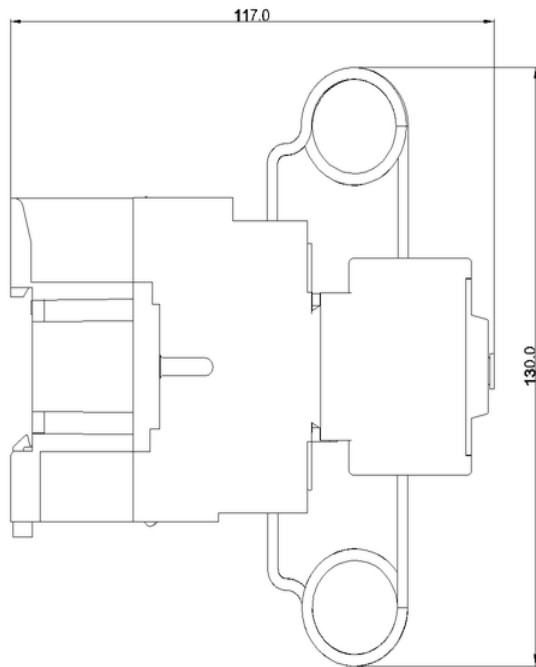
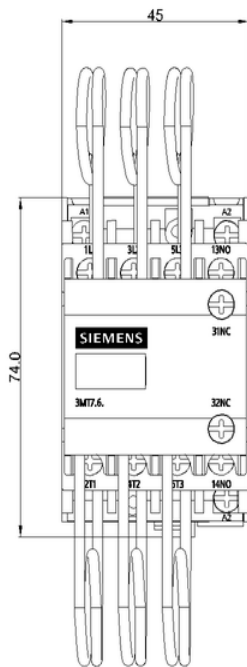


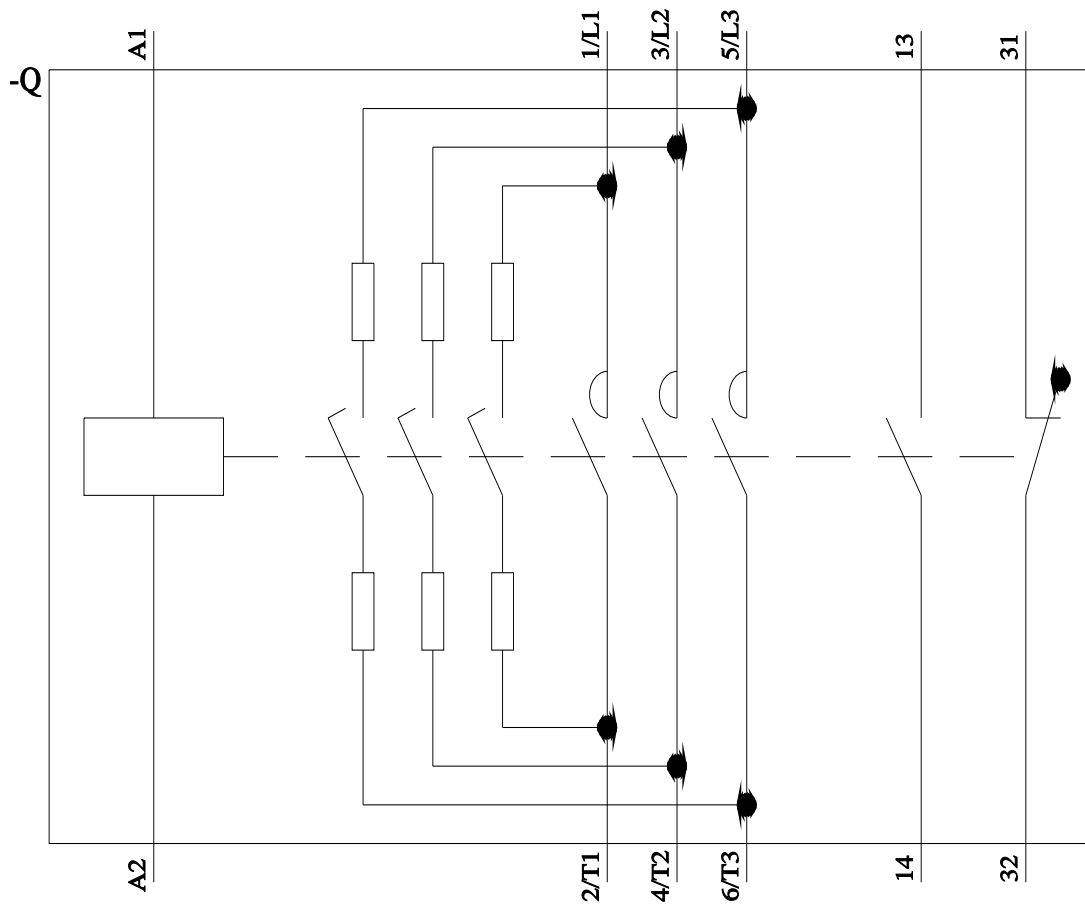
[Confirmation](#)

[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=3MT7000-7JA11-6AN2>
Cax online generator
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7000-7JA11-6AN2>
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3MT7000-7JA11-6AN2>
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7000-7JA11-6AN2&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
<https://support.industry.siemens.com/cs/ww/en/ps/3MT7000-7JA11-6AN2/char>
Further characteristics (e.g. electrical endurance, switching frequency)
<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7000-7JA11-6AN2&objecttype=14&gridview=view1>





last modified:

1/17/2024 



10 kvar Capacitor duty contactor 1NO + 1NC aux contact 220 V AC, 50/60 Hz coil

product brand name	SINOVA
product designation	Capacitor contactor
product type designation	3MT7
General technical data	
size of contactor	1
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	200 000
electrical endurance (operating cycles)	200 000
reference code according to IEC 81346-2	Q
Weight	0.5 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
operational current	
• at AC-6b at 440 V at ambient temperature 40 °C rated value	14 A
operating reactive power	
• at 240 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	5.8 kvar
• at 400/415 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	10 kvar
• at 440 V at 50/60 Hz 3 phase at ambient temperature 40 °C rated value	10.7 kvar
• at 600 V at 60 Hz 3 phase at ambient temperature 40 °C rated value	12.5 kvar
no-load switching frequency	
• at AC	3 600 1/h
operating frequency at AC-6b	
• at 240 V maximum	240 1/h
• at 400 V maximum	240 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
• at 50 Hz rated value	220 ... 220 V
• at 60 Hz rated value	220 V
• at 60 Hz rated value	220 ... 220 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	60 VA
apparent holding power of magnet coil at AC	9 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	1
• attachable	0
• instantaneous contact	1
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: 25 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 DIN rail according to DIN EN 50022
height	130 mm
width	45 mm
depth	117 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 (1 ... 4 mm ²), 2x (1 ... 4 mm ²)
connectable conductor cross-section for main contacts	
• solid or stranded	1 ... 4 mm ²
• finely stranded with pin-end connector	4 ... 1 mm ²
• finely stranded without core end processing	1 ... 4 mm ²
connectable conductor cross-section for auxiliary contacts	
• solid or stranded	1 ... 4 mm ²
• finely stranded with core end processing	1 ... 4 mm ²

<ul style="list-style-type: none"> finely stranded without core end processing 	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 ... 4 mm ²), 2x (1 ... 4 mm 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 	12 ... 10 14 ... 14
tightening torque <ul style="list-style-type: none"> for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals 	1.2 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 	M3.5 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
---	----------

Electrical Safety

protection class IP on the front according to IEC 60529	IP20
--	------

Approvals Certificates

General Product Approval	other	Environment
---------------------------------	--------------	--------------------

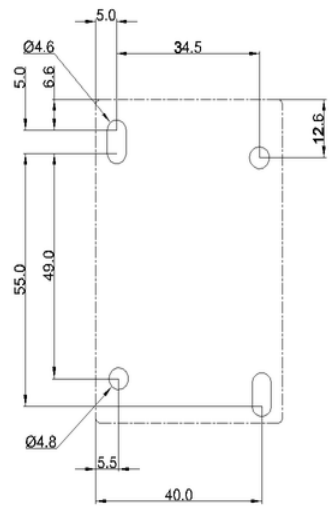
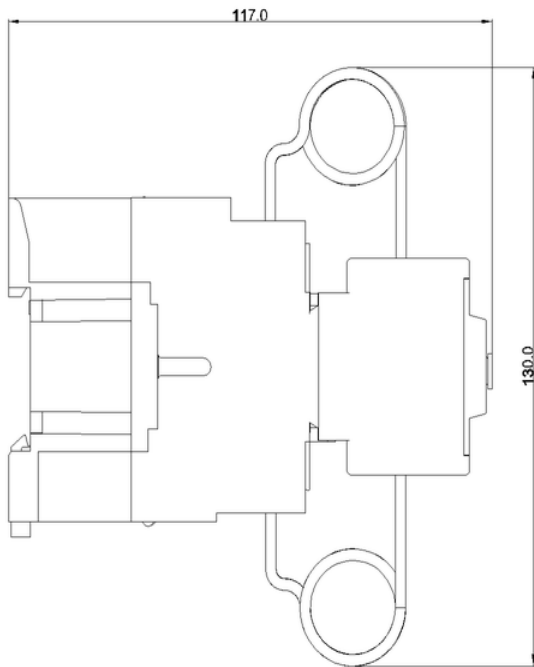
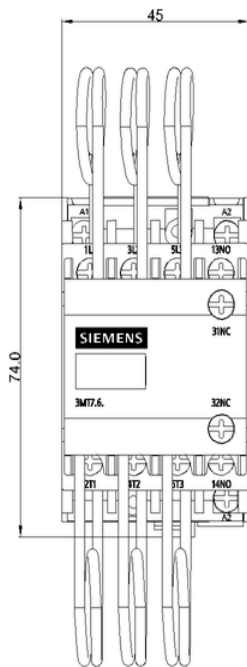


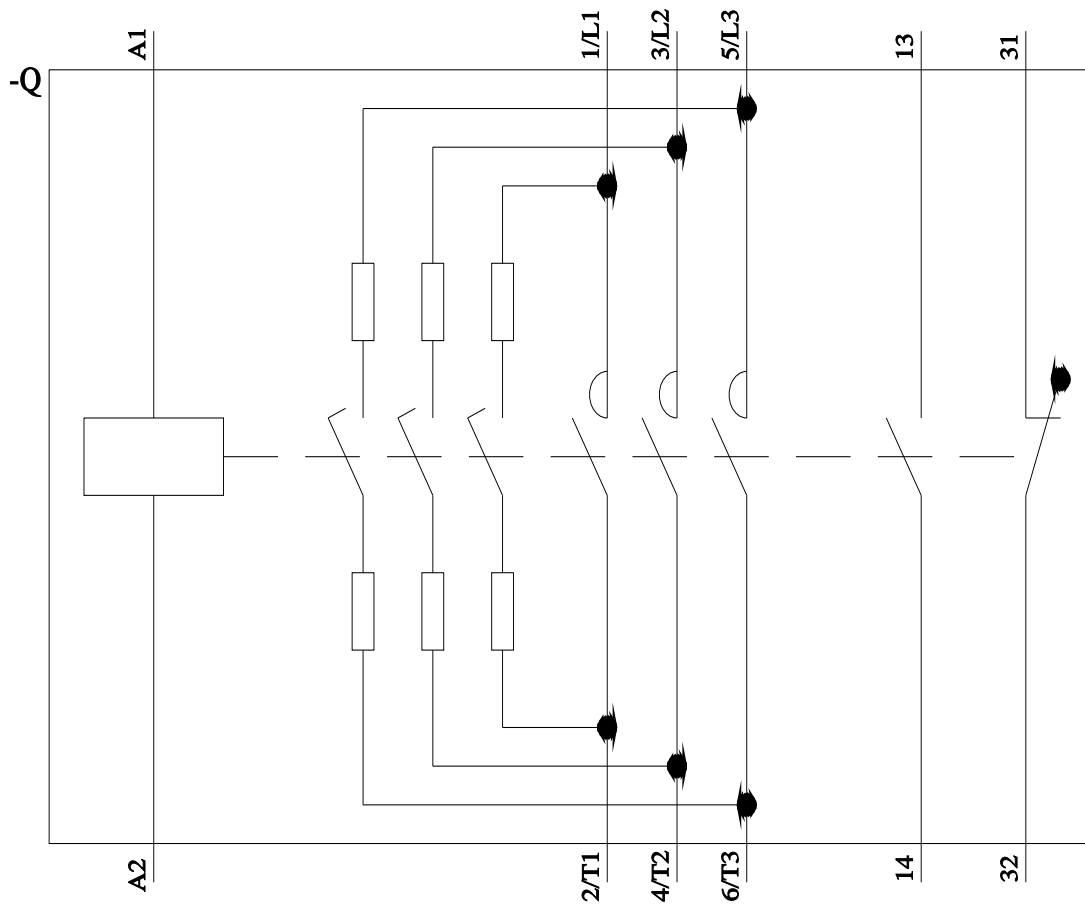
[Confirmation](#)

[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=3MT7001-0JA11-6AN2>
Cax online generator
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7001-0JA11-6AN2>
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3MT7001-0JA11-6AN2>
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7001-0JA11-6AN2&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
<https://support.industry.siemens.com/cs/ww/en/ps/3MT7001-0JA11-6AN2/char>
Further characteristics (e.g. electrical endurance, switching frequency)
<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7001-0JA11-6AN2&objecttype=14&gridview=view1>





last modified:

1/17/2024 ↻



12.5 kvar Capacitor duty contactor 1NO + 1NC aux contact 220 V AC, 50/60 Hz coil

product brand name	SINOVA
product designation	Capacitor contactor
product type designation	3MT7
General technical data	
size of contactor	1
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	200 000
electrical endurance (operating cycles)	200 000
reference code according to IEC 81346-2	Q
Weight	0.5 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
operational current	
• at AC-6b at 440 V at ambient temperature 40 °C rated value	18 A
operating reactive power	
• at 240 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	7.5 kvar
• at 400/415 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	12.5 kvar
• at 440 V at 50/60 Hz 3 phase at ambient temperature 40 °C rated value	13.7 kvar
• at 600 V at 60 Hz 3 phase at ambient temperature 40 °C rated value	15 kvar
no-load switching frequency	
• at AC	3 600 1/h
operating frequency at AC-6b	
• at 240 V maximum	240 1/h
• at 400 V maximum	240 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
• at 50 Hz rated value	220 ... 220 V
• at 60 Hz rated value	220 V
• at 60 Hz rated value	220 ... 220 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	60 VA
apparent holding power of magnet coil at AC	9 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	1
• attachable	0
• instantaneous contact	1
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: 25 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 DIN rail according to DIN EN 50022
height	130 mm
width	45 mm
depth	117 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 (1 ... 4 mm ²), 2x (1 ... 4 mm ²)
connectable conductor cross-section for main contacts	
• solid or stranded	1 ... 4 mm ²
• finely stranded with pin-end connector	4 ... 1 mm ²
• finely stranded without core end processing	1 ... 4 mm ²
connectable conductor cross-section for auxiliary contacts	
• solid or stranded	1 ... 4 mm ²
• finely stranded with core end processing	1 ... 4 mm ²

<ul style="list-style-type: none"> finely stranded without core end processing 	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 ... 4 mm ²), 2x (1 ... 4 mm 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 	12 ... 10 14 ... 14
tightening torque <ul style="list-style-type: none"> for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals 	1.2 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 	M3.5 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
---	----------

Electrical Safety

protection class IP on the front according to IEC 60529	IP20
--	------

Approvals Certificates

General Product Approval	other	Environment
---------------------------------	--------------	--------------------



[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=3MT7001-2JA11-6AN2>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7001-2JA11-6AN2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3MT7001-2JA11-6AN2>

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

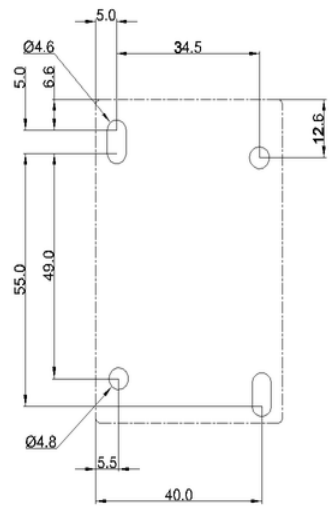
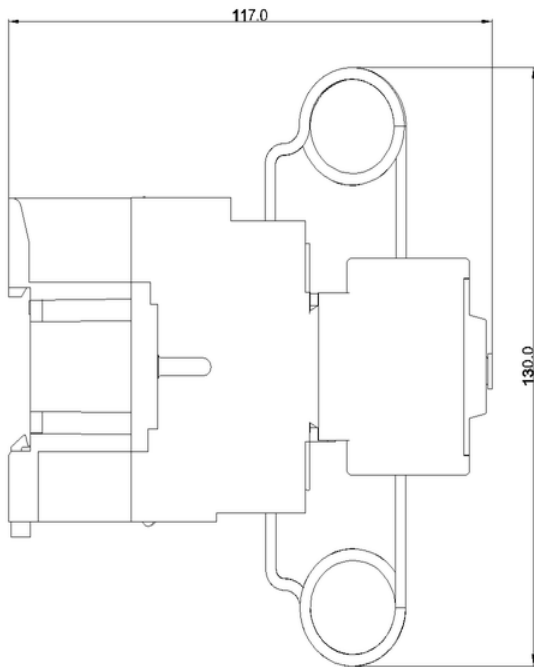
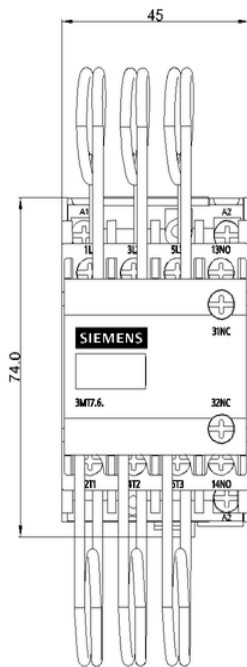
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7001-2JA11-6AN2&lang=en

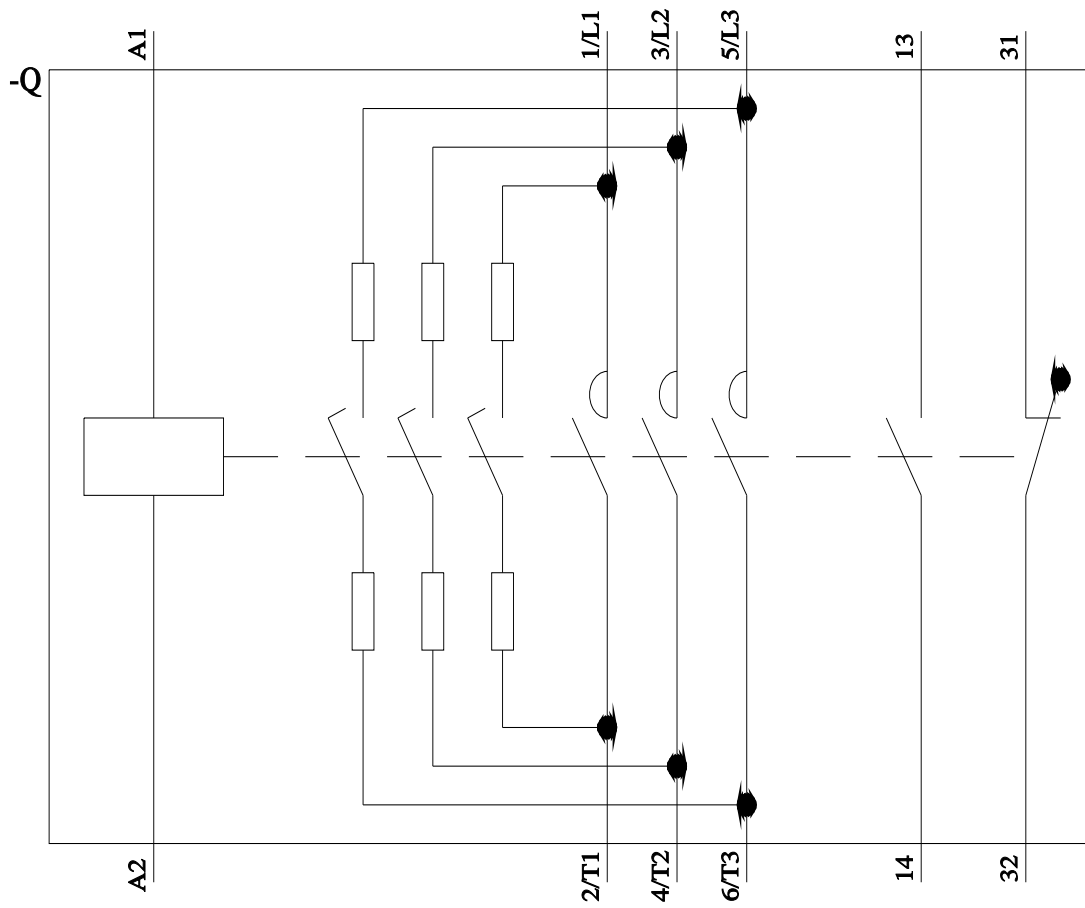
Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3MT7001-2JA11-6AN2/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7001-2JA11-6AN2&objecttype=14&gridview=view1>





last modified:

1/17/2024 ↻



16.7 kvar Capacitor duty contactor 1NO + 1NC aux contact 220 V AC, 50/60 Hz coil

product brand name	SINOVA
product designation	Capacitor contactor
product type designation	3MT7
General technical data	
size of contactor	2
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	200 000
electrical endurance (operating cycles)	200 000
reference code according to IEC 81346-2	Q
Weight	0.5 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
operational current	
• at AC-6b at 440 V at ambient temperature 40 °C rated value	24 A
operating reactive power	
• at 240 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	10 kvar
• at 400/415 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	16.7 kvar
• at 440 V at 50/60 Hz 3 phase at ambient temperature 40 °C rated value	18.3 kvar
• at 600 V at 60 Hz 3 phase at ambient temperature 40 °C rated value	20 kvar
no-load switching frequency	
• at AC	3 600 1/h
operating frequency at AC-6b	
• at 240 V maximum	240 1/h
• at 400 V maximum	240 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
• at 50 Hz rated value	220 ... 220 V
• at 60 Hz rated value	220 V
• at 60 Hz rated value	220 ... 220 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	60 VA
apparent holding power of magnet coil at AC	9 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	1
• attachable	0
• instantaneous contact	1
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: 32 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 DIN rail according to DIN EN 50022
height	130 mm
width	45 mm
depth	122 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 (1.5 ... 10 mm ²), 2x (1.5 ... 6 mm ²)
connectable conductor cross-section for main contacts	
• solid or stranded	1.5 ... 10 mm ²
• finely stranded with pin-end connector	10 ... 1.5 mm ²
• finely stranded without core end processing	1 ... 4 mm ²
connectable conductor cross-section for auxiliary contacts	
• solid or stranded	1 ... 4 mm ²
• finely stranded with core end processing	1 ... 4 mm ²

<ul style="list-style-type: none"> finely stranded without core end processing 	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 ... 4 mm ²), 2x (1 ... 4 mm 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 	12 ... 8 14 ... 14
tightening torque <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> for main contacts of the auxiliary and control contacts 	M3.5 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
---	----------

Electrical Safety

protection class IP on the front according to IEC 60529	IP20
--	------

Approvals Certificates

General Product Approval	other	Environment
---------------------------------	--------------	--------------------

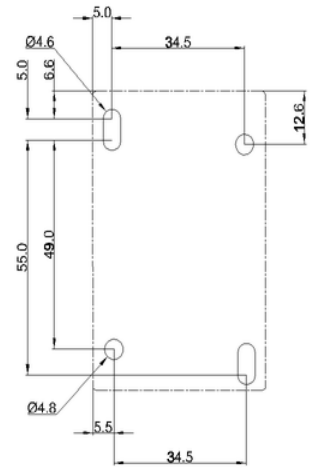
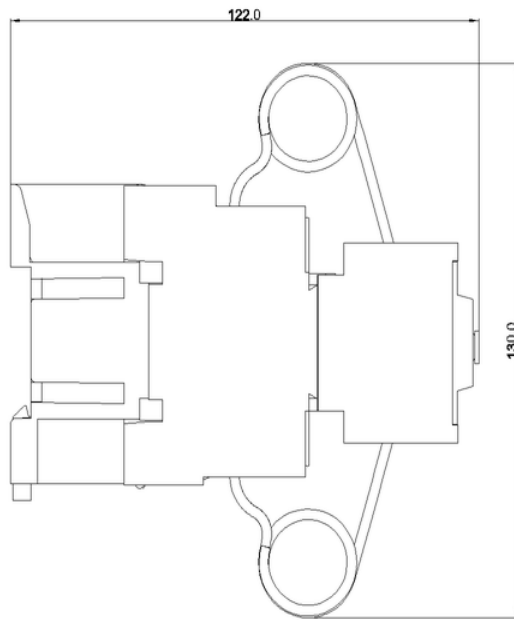
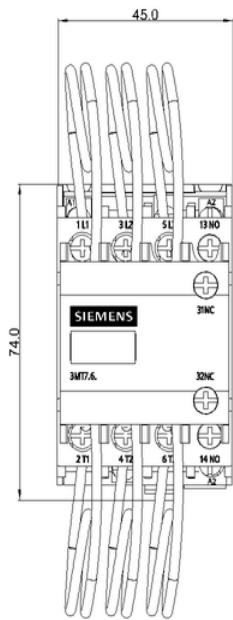


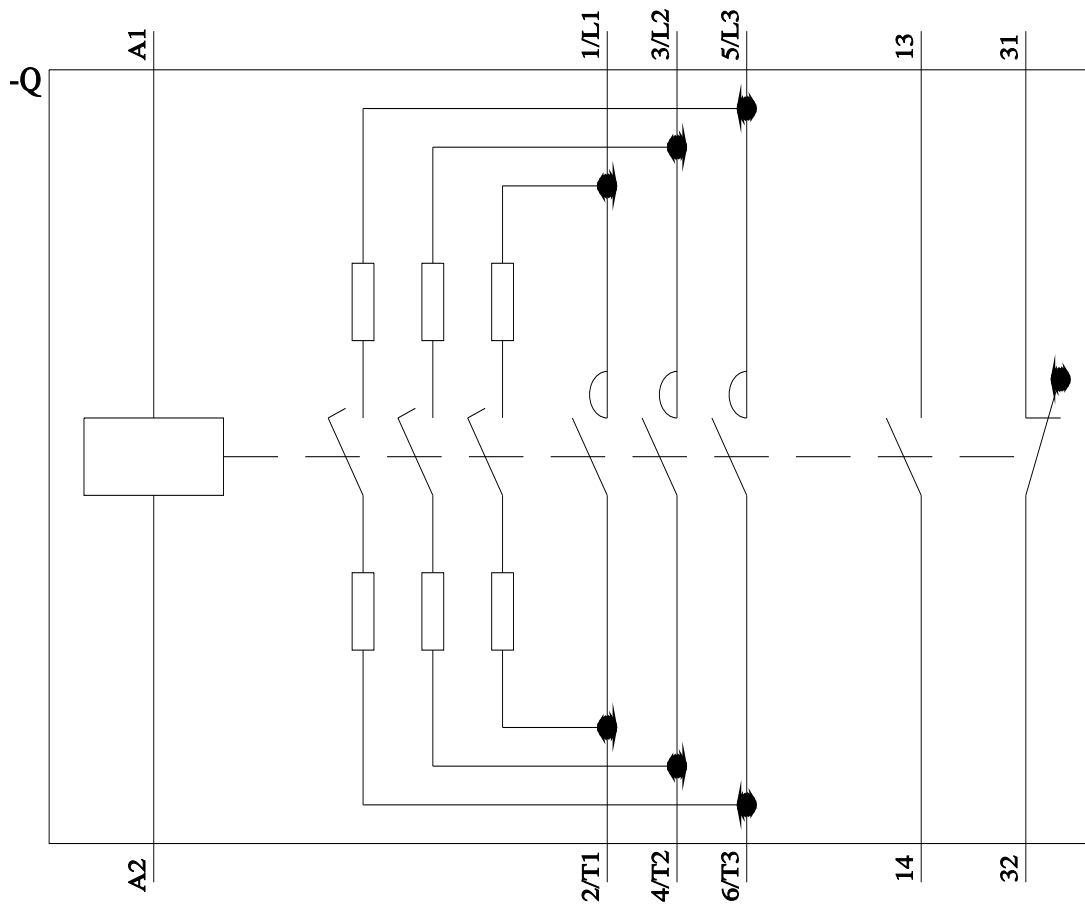
[Confirmation](#)

[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=3MT7001-6JA11-6AN2>
Cax online generator
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7001-6JA11-6AN2>
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3MT7001-6JA11-6AN2>
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7001-6JA11-6AN2&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
<https://support.industry.siemens.com/cs/ww/en/ps/3MT7001-6JA11-6AN2/char>
Further characteristics (e.g. electrical endurance, switching frequency)
<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7001-6JA11-6AN2&objecttype=14&gridview=view1>





last modified:

1/17/2024 ↻



20 kvar Capacitor duty contactor 1NO + 1NC aux contact 220 V AC, 50/60 Hz coil

product brand name	SINOVA
product designation	Capacitor contactor
product type designation	3MT7
General technical data	
size of contactor	3
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	0.7 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
operational current	
• at AC-6b at 440 V at ambient temperature 40 °C rated value	29 A
operating reactive power	
• at 240 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	12 kvar
• at 400/415 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	20 kvar
• at 440 V at 50/60 Hz 3 phase at ambient temperature 40 °C rated value	22 kvar
• at 600 V at 60 Hz 3 phase at ambient temperature 40 °C rated value	25 kvar
no-load switching frequency	
• at AC	3 600 1/h
operating frequency at AC-6b	
• at 240 V maximum	240 1/h
• at 400 V maximum	240 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
• at 50 Hz rated value	220 ... 220 V
• at 60 Hz rated value	220 V
• at 60 Hz rated value	220 ... 220 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	90 VA
apparent holding power of magnet coil at AC	9 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	1
• attachable	0
• instantaneous contact	1
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: 40 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 DIN rail according to DIN EN 50022
height	140 mm
width	56 mm
depth	130 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 (1.5 ... 10 mm ²), 2x (1.5 ... 6 mm ²)
connectable conductor cross-section for main contacts	
• solid or stranded	1.5 ... 10 mm ²
• finely stranded with pin-end connector	10 ... 1.5 mm ²
• finely stranded without core end processing	1.5 ... 6 mm ²
connectable conductor cross-section for auxiliary contacts	
• solid or stranded	1 ... 4 mm ²
• finely stranded with core end processing	1 ... 4 mm ²

<ul style="list-style-type: none"> finely stranded without core end processing 	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 ... 4 mm ²), 2x (1 ... 4 mm 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 	12 ... 8 14 ... 14
tightening torque <ul style="list-style-type: none"> for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals 	1.85 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 	M4 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
---	----------

Electrical Safety

protection class IP on the front according to IEC 60529	IP20
--	------

Approvals Certificates

General Product Approval	other	Environment
---------------------------------	--------------	--------------------



EG-Konf.



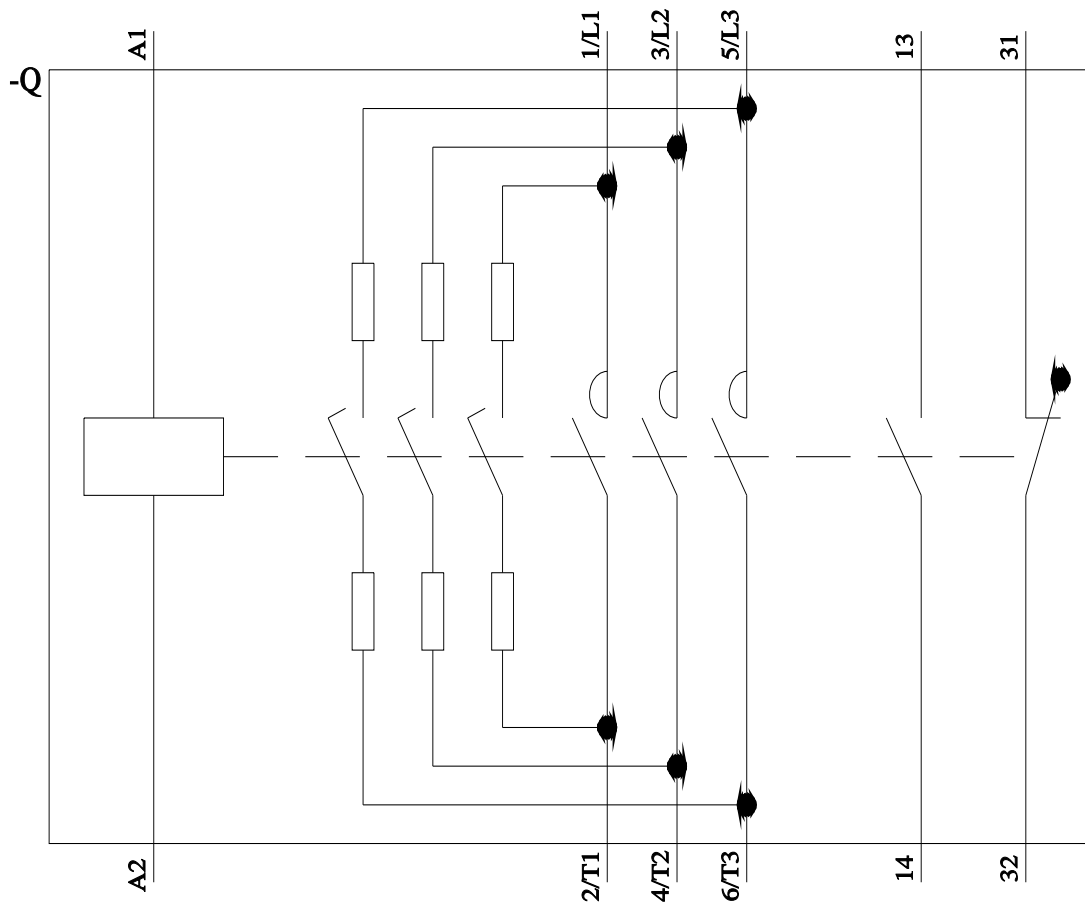
UL

[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=3MT7002-0JA11-6AN2>
Cax online generator
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7002-0JA11-6AN2>
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3MT7002-0JA11-6AN2>
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7002-0JA11-6AN2&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
<https://support.industry.siemens.com/cs/ww/en/ps/3MT7002-0JA11-6AN2/char>
Further characteristics (e.g. electrical endurance, switching frequency)
<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7002-0JA11-6AN2&objecttype=14&gridview=view1>



last modified:

1/17/2024 



25 kvar Capacitor duty contactor 1NO + 1NC aux contact 220 V AC, 50/60 Hz coil

product brand name	SINOVA
product designation	Capacitor contactor
product type designation	3MT7
General technical data	
size of contactor	4
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	0.7 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
operational current	
• at AC-6b at 440 V at ambient temperature 40 °C rated value	36 A
operating reactive power	
• at 240 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	15 kvar
• at 400/415 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	25 kvar
• at 440 V at 50/60 Hz 3 phase at ambient temperature 40 °C rated value	27.4 kvar
• at 600 V at 60 Hz 3 phase at ambient temperature 40 °C rated value	30 kvar
no-load switching frequency	
• at AC	3 600 1/h
operating frequency at AC-6b	
• at 240 V maximum	240 1/h
• at 400 V maximum	240 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
• at 50 Hz rated value	220 ... 220 V
• at 60 Hz rated value	220 V
• at 60 Hz rated value	220 ... 220 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	90 VA
apparent holding power of magnet coil at AC	9 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	1
• attachable	0
• instantaneous contact	1
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: 50 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 DIN rail according to DIN EN 50022
height	140 mm
width	56 mm
depth	135 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 (1.5 ... 10 mm ²), 2x (2.5 ... 10 mm ²)
connectable conductor cross-section for main contacts	
• solid or stranded	1.5 ... 10 mm ²
• finely stranded with pin-end connector	10 ... 1.5 mm ²
• finely stranded without core end processing	2.5 ... 10 mm ²
connectable conductor cross-section for auxiliary contacts	
• solid or stranded	1 ... 4 mm ²
• finely stranded with core end processing	1 ... 4 mm ²

<ul style="list-style-type: none"> finely stranded without core end processing 	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 ... 4 mm ²), 2x (1 ... 4 mm 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 	14 ... 6 14 ... 14
tightening torque <ul style="list-style-type: none"> for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals 	2.5 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 	M4 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
---	----------

Electrical Safety

protection class IP on the front according to IEC 60529	IP20
--	------

Approvals Certificates

General Product Approval	other	Environment
--------------------------	-------	-------------

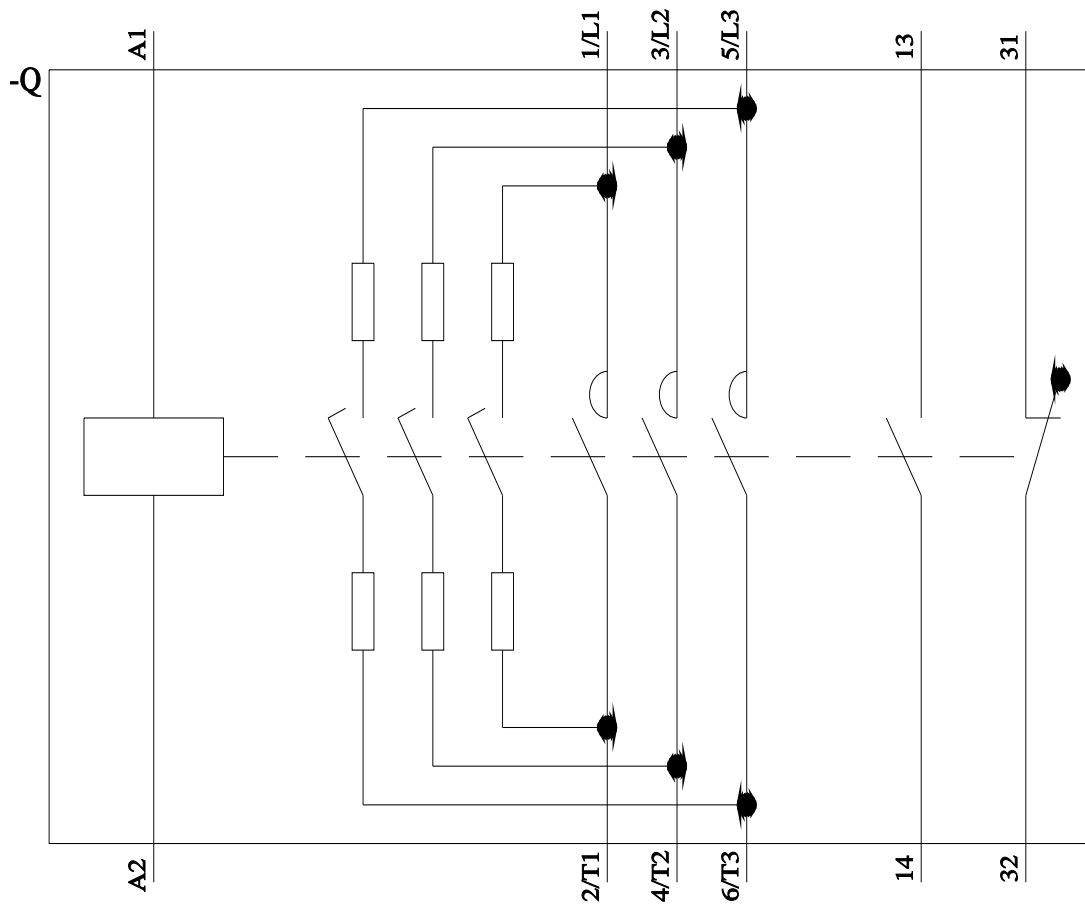


[Confirmation](#)

[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=3MT7002-5JA11-6AN2>
Cax online generator
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7002-5JA11-6AN2>
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3MT7002-5JA11-6AN2>
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7002-5JA11-6AN2&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
<https://support.industry.siemens.com/cs/ww/en/ps/3MT7002-5JA11-6AN2/char>
Further characteristics (e.g. electrical endurance, switching frequency)
<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7002-5JA11-6AN2&objecttype=14&gridview=view1>



last modified:

1/17/2024 



33.3 kvar Capacitor duty contactor 1NO + 2NC aux contact 220 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
operational current	
• at AC-6b at 440 V at ambient temperature 40 °C rated value	48 A
operating reactive power	
• at 240 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	20 kvar
• at 400/415 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	33.3 kvar
• at 440 V at 50/60 Hz 3 phase at ambient temperature 40 °C rated value	36.6 kvar
• at 600 V at 60 Hz 3 phase at ambient temperature 40 °C rated value	40 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	220 V
• at 50 Hz rated value	220 ... 220 V
• at 60 Hz rated value	220 V
• at 60 Hz rated value	220 ... 220 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 mm ²), 2x (2.5 ... 16 mm ²)
connectable conductor cross-section for main contacts	
• solid or stranded	2.5 ... 25 mm ²
• finely stranded with pin-end connector	25 ... 2.5 mm ²
• finely stranded without core end processing	2.5 ... 25 mm ²
connectable conductor cross-section for auxiliary contacts	
• solid or stranded	1 ... 4 mm ²
• finely stranded with core end processing	1 ... 4 mm ²

<ul style="list-style-type: none"> finely stranded without core end processing 	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 ... 4 mm ²), 2x (1 ... 4 mm 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
---	----------

Electrical Safety

protection class IP on the front according to IEC 60529	IP20
--	------

Approvals Certificates

General Product Approval	other	Environment
---------------------------------	--------------	--------------------

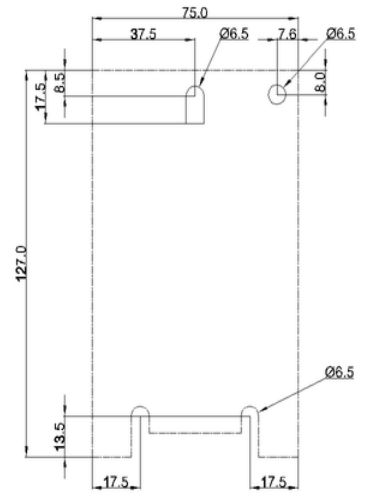
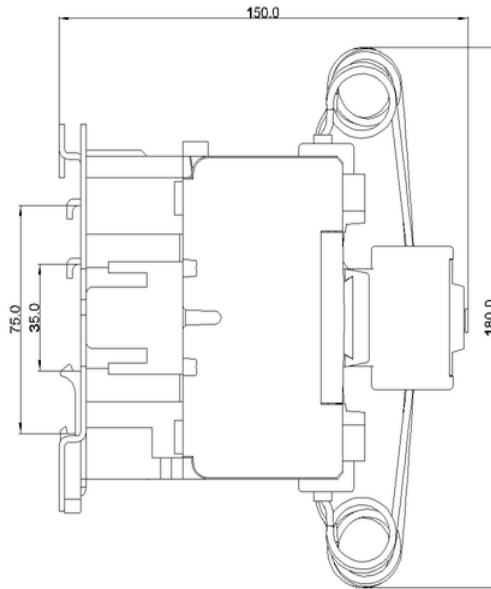
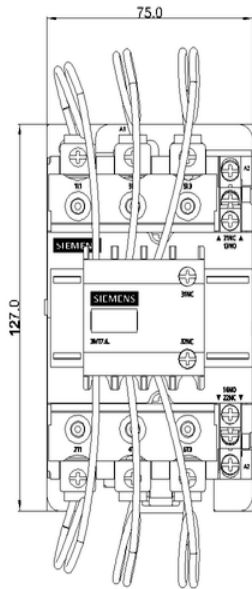


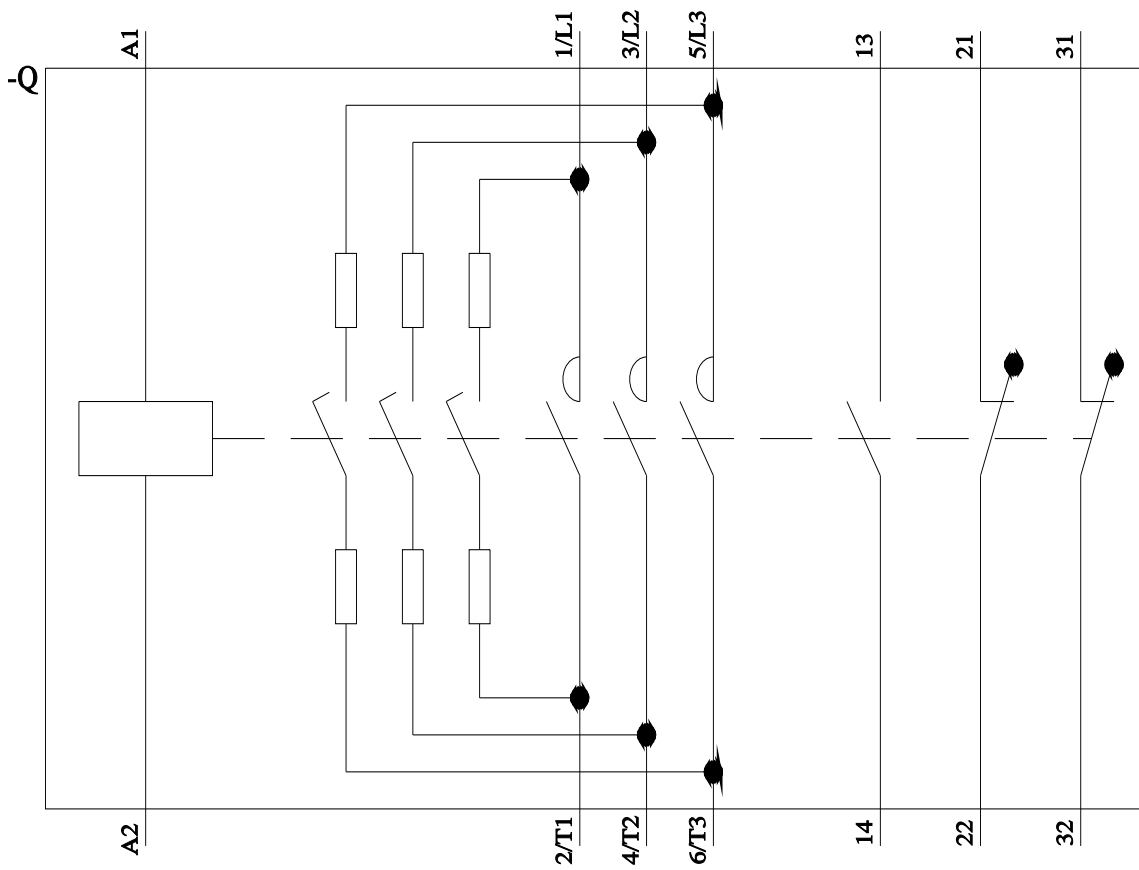
[Confirmation](#)

[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=3MT7003-3JA12-6AN2>
Cax online generator
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7003-3JA12-6AN2>
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3MT7003-3JA12-6AN2>
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7003-3JA12-6AN2&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
<https://support.industry.siemens.com/cs/ww/en/ps/3MT7003-3JA12-6AN2/char>
Further characteristics (e.g. electrical endurance, switching frequency)
<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7003-3JA12-6AN2&objecttype=14&gridview=view1>





last modified:

1/17/2024 



40 kvar Capacitor duty contactor 1NO + 2NC aux contact 220 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
operational current	
• at AC-6b at 440 V at ambient temperature 40 °C rated value	58 A
operating reactive power	
• at 240 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	24 kvar
• at 400/415 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	40 kvar
• at 440 V at 50/60 Hz 3 phase at ambient temperature 40 °C rated value	44.2 kvar
• at 600 V at 60 Hz 3 phase at ambient temperature 40 °C rated value	50 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	220 V
• at 50 Hz rated value	220 ... 220 V
• at 60 Hz rated value	220 V
• at 60 Hz rated value	220 ... 220 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 mm ²), 2x (2.5 ... 16 mm ²)
connectable conductor cross-section for main contacts	
• solid or stranded	2.5 ... 25 mm ²
• finely stranded with pin-end connector	35 ... 2.5 mm ²
• finely stranded without core end processing	2.5 ... 35 mm ²
connectable conductor cross-section for auxiliary contacts	
• solid or stranded	1 ... 4 mm ²
• finely stranded with core end processing	1 ... 4 mm ²

<ul style="list-style-type: none"> finely stranded without core end processing 	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 ... 4 mm ²), 2x (1 ... 4 mm 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
---	----------

Electrical Safety

protection class IP on the front according to IEC 60529	IP20
--	------

Approvals Certificates

General Product Approval	other	Environment
---------------------------------	--------------	--------------------

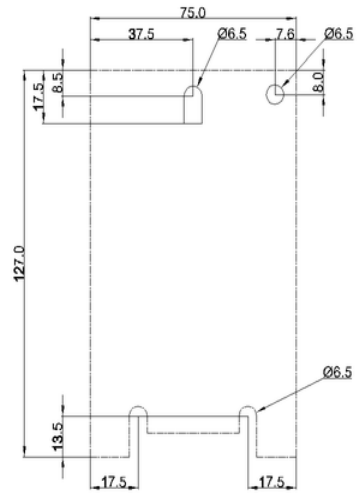
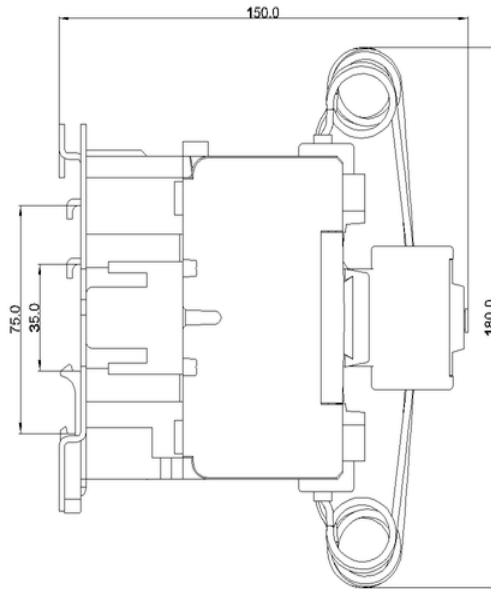
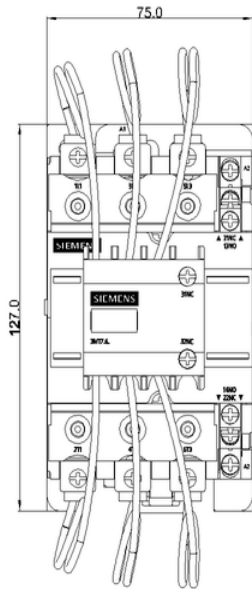


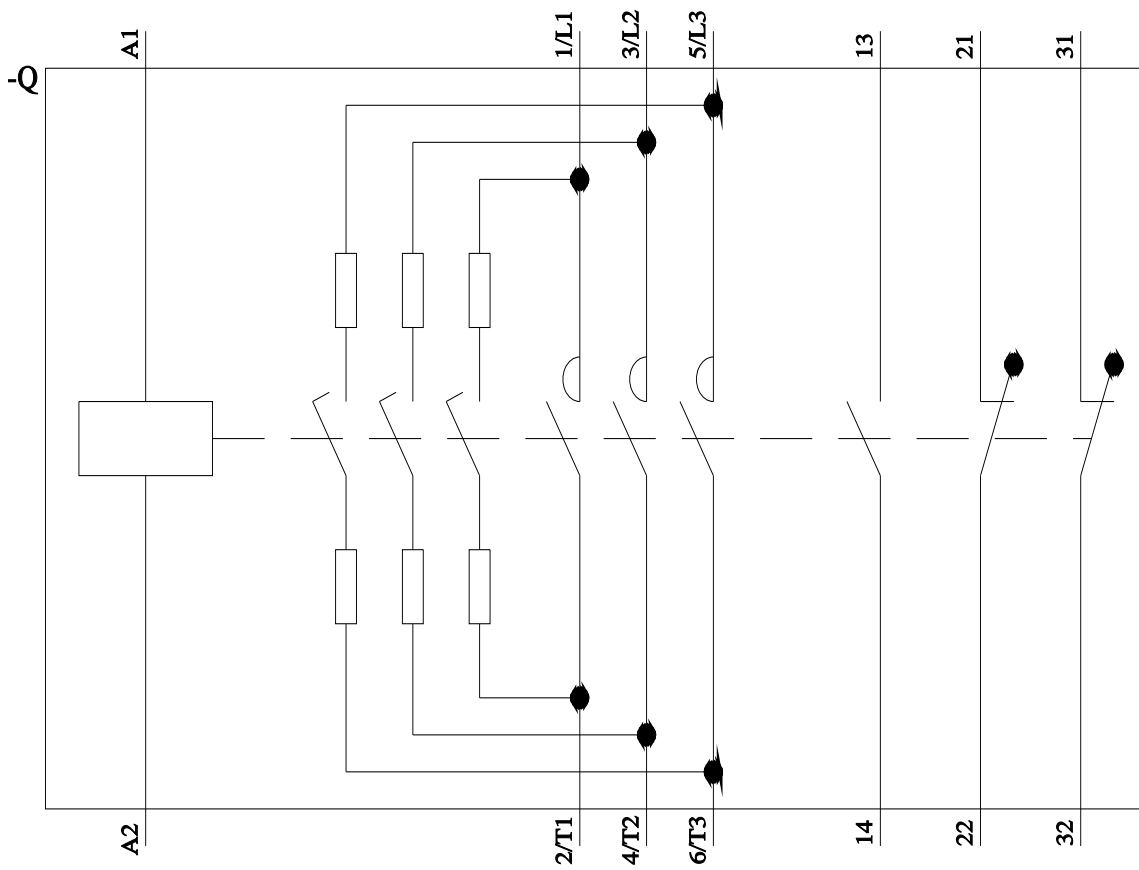
[Confirmation](#)

[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=3MT7004-0JA12-6AN2>
Cax online generator
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7004-0JA12-6AN2>
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3MT7004-0JA12-6AN2>
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7004-0JA12-6AN2&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
<https://support.industry.siemens.com/cs/ww/en/ps/3MT7004-0JA12-6AN2/char>
Further characteristics (e.g. electrical endurance, switching frequency)
<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7004-0JA12-6AN2&objecttype=14&gridview=view1>





last modified:

1/17/2024 



50 kvar Capacitor duty contactor 1NO + 2NC aux contact 220 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

<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> at 50 Hz rated value 	220 V
<ul style="list-style-type: none"> at 50 Hz rated value 	220 ... 220 V
<ul style="list-style-type: none"> at 60 Hz rated value 	220 V
<ul style="list-style-type: none"> at 60 Hz rated value 	220 ... 220 V
control supply voltage frequency	
<ul style="list-style-type: none"> 1 rated value 	50 Hz
<ul style="list-style-type: none"> 2 rated value 	60 Hz
operating range factor control supply voltage rated value of magnet coil at AC	
<ul style="list-style-type: none"> at 50 Hz 	0.85 ... 1.1
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> attachable 	0
<ul style="list-style-type: none"> instantaneous contact 	2
number of NO contacts for auxiliary contacts	1
<ul style="list-style-type: none"> attachable 	0
<ul style="list-style-type: none"> instantaneous contact 	1
operational current of auxiliary contacts at AC-15	
<ul style="list-style-type: none"> at 230 V 	2.09 A
<ul style="list-style-type: none"> at 400 V 	1.25 A
operational current of auxiliary contacts at DC-13	
<ul style="list-style-type: none"> at 24 V 	5 A
<ul style="list-style-type: none"> at 110 V 	0.59 A
<ul style="list-style-type: none"> at 125 V 	0.59 A
<ul style="list-style-type: none"> at 220 V 	0.28 A
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
<ul style="list-style-type: none"> for short-circuit protection of the main circuit <ul style="list-style-type: none"> with type of coordination 1 required 	gG: 80 A (440 V, 50 kA)
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> for main current circuit 	screw-type terminals
<ul style="list-style-type: none"> for auxiliary and control circuit 	screw-type terminals
type of connectable conductor cross-sections for main contacts	
<ul style="list-style-type: none"> solid or stranded 	1x (2.5 ... 25 mm ²), 2x (2.5 ... 16 mm ²)
connectable conductor cross-section for main contacts	
<ul style="list-style-type: none"> solid or stranded 	2.5 ... 25 mm ²
<ul style="list-style-type: none"> finely stranded with pin-end connector 	35 ... 2.5 mm ²
<ul style="list-style-type: none"> finely stranded without core end processing 	2.5 ... 35 mm ²
connectable conductor cross-section for auxiliary contacts	
<ul style="list-style-type: none"> solid or stranded 	1 ... 4 mm ²

<ul style="list-style-type: none"> finely stranded with core end processing finely stranded without core end processing 	<p>1 ... 4 mm²</p> <p>1 ... 4 mm²</p>
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 	<p>1x (1 ... 4mm²), 2x (1 ... 4mm²)</p> <p>1x (1 ... 4 mm²), 2x (1 ... 4 mm²)</p> <p>1x (1 ... 4 mm²), 2x (1 ... 2.5 mm²)</p> <p>14</p>
AWG number as coded connectable conductor cross section <ul style="list-style-type: none"> for main contacts for auxiliary contacts 	<p>10 ... 3</p> <p>14 ... 14</p>
tightening torque <ul style="list-style-type: none"> for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals 	<p>5 N·m</p> <p>1.2 N·m</p>
design of the thread of the connection screw <ul style="list-style-type: none"> for main contacts of the auxiliary and control contacts 	<p>M8</p> <p>M3.5</p>

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 	<p>No</p> <p>No</p>
---	---------------------

Electrical Safety

protection class IP on the front according to IEC 60529	<p>IP20</p>
--	-------------

Approvals Certificates

General Product Approval	other	Environment
---------------------------------	--------------	--------------------

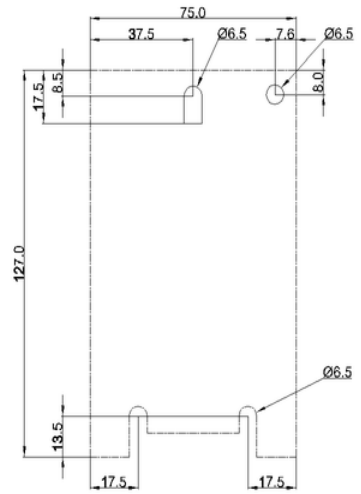
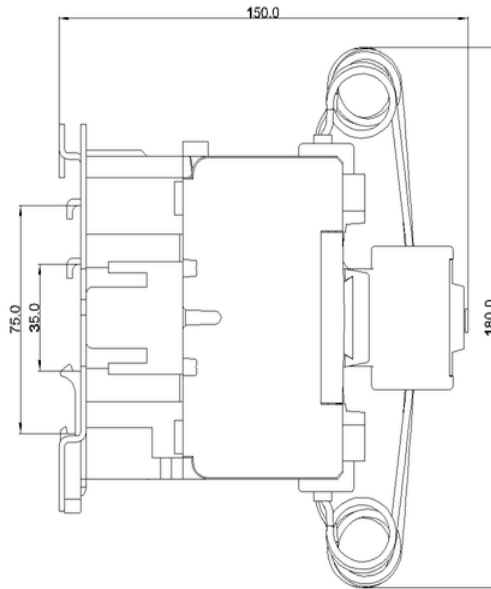
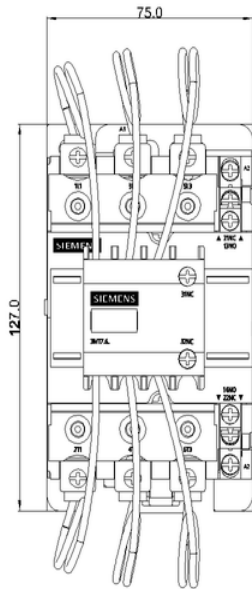


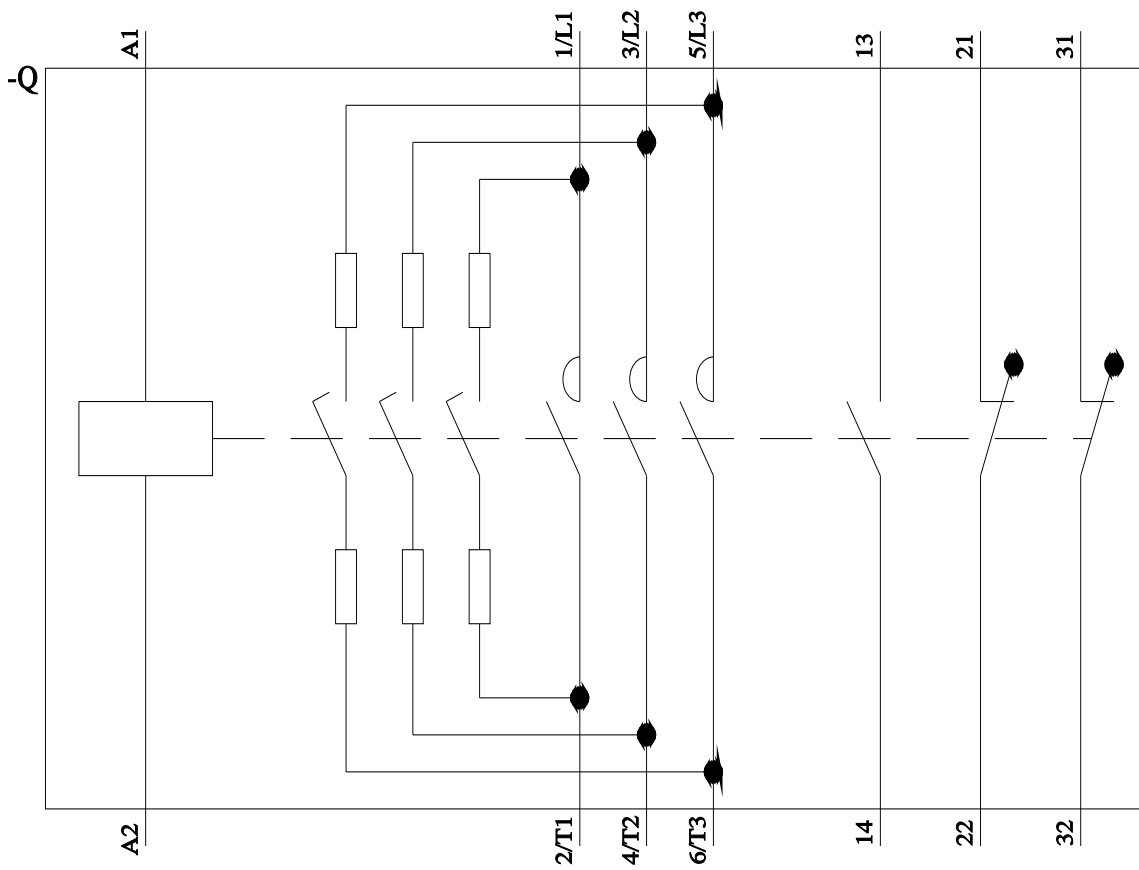
[Confirmation](#)

[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=3MT7005-0JA12-6AN2>
- Cax online generator
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7005-0JA12-6AN2>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3MT7005-0JA12-6AN2>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7005-0JA12-6AN2&lang=en
- Characteristic: Tripping characteristics, I²t, Let-through current
<https://support.industry.siemens.com/cs/ww/en/ps/3MT7005-0JA12-6AN2/char>
- Further characteristics (e.g. electrical endurance, switching frequency)
<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7005-0JA12-6AN2&objecttype=14&gridview=view1>





last modified:

1/17/2024 



60 kvar Capacitor duty contactor 1NO + 2NC aux contact 220 V AC, 50/60 Hz coil

product brand name	SINOVA
product designation	Capacitor contactor
product type designation	3MT7
General technical data	
size of contactor	6
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	1.8 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	92 A
operating reactive power	
• at 240 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	38 kvar
• at 400/415 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	60 kvar
• at 440 V at 50/60 Hz 3 phase at ambient temperature 40 °C rated value	70 kvar
• at 600 V at 60 Hz 3 phase at ambient temperature 40 °C rated value	75 kvar
no-load switching frequency	
• at AC	1 800 1/h
operating frequency at AC-6b	
• at 240 V maximum	100 1/h

<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> at 50 Hz rated value 	220 V
<ul style="list-style-type: none"> at 50 Hz rated value 	220 ... 220 V
<ul style="list-style-type: none"> at 60 Hz rated value 	220 V
<ul style="list-style-type: none"> at 60 Hz rated value 	220 ... 220 V
control supply voltage frequency	
<ul style="list-style-type: none"> 1 rated value 	50 Hz
<ul style="list-style-type: none"> 2 rated value 	60 Hz
operating range factor control supply voltage rated value of magnet coil at AC	
<ul style="list-style-type: none"> at 50 Hz 	0.85 ... 1.1
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> attachable 	0
<ul style="list-style-type: none"> instantaneous contact 	2
number of NO contacts for auxiliary contacts	1
<ul style="list-style-type: none"> attachable 	0
<ul style="list-style-type: none"> instantaneous contact 	1
operational current of auxiliary contacts at AC-15	
<ul style="list-style-type: none"> at 230 V 	2.09 A
<ul style="list-style-type: none"> at 400 V 	1.25 A
operational current of auxiliary contacts at DC-13	
<ul style="list-style-type: none"> at 24 V 	5 A
<ul style="list-style-type: none"> at 110 V 	0.59 A
<ul style="list-style-type: none"> at 125 V 	0.59 A
<ul style="list-style-type: none"> at 220 V 	0.28 A
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
<ul style="list-style-type: none"> for short-circuit protection of the main circuit <ul style="list-style-type: none"> with type of coordination 1 required 	gG: 125 A (440 V, 50 kA)
<ul style="list-style-type: none"> 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	200 mm
width	85 mm
depth	157 mm
required spacing for grounded parts at the side	12 mm
Connections/ Terminals	
type of electrical connection	
<ul style="list-style-type: none"> for main current circuit 	screw-type terminals
<ul style="list-style-type: none"> for auxiliary and control circuit 	screw-type terminals
type of connectable conductor cross-sections for main contacts	
<ul style="list-style-type: none"> solid or stranded 	1x (4 ... 70 mm ²), 2x (4 ... 35 mm ²)
connectable conductor cross-section for main contacts	
<ul style="list-style-type: none"> solid or stranded 	4 ... 35 mm ²
<ul style="list-style-type: none"> finely stranded with pin-end connector 	50 ... 4 mm ²
<ul style="list-style-type: none"> finely stranded without core end processing 	4 ... 50 mm ²
connectable conductor cross-section for auxiliary contacts	
<ul style="list-style-type: none"> solid or stranded 	1 ... 4 mm ²

<ul style="list-style-type: none"> finely stranded with core end processing finely stranded without core end processing 	<p>1 ... 4 mm²</p> <p>1 ... 4 mm²</p>
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 	<p>1x (1 ... 4mm²), 2x (1 ... 4mm²)</p> <p>1x (1 ... 4 mm²), 2x (1 ... 4 mm²)</p> <p>1x (1 ... 4 mm²), 2x (1 ... 2.5 mm²)</p> <p>14</p>
AWG number as coded connectable conductor cross section <ul style="list-style-type: none"> for main contacts for auxiliary contacts 	<p>10 ... 2</p> <p>14 ... 14</p>
tightening torque <ul style="list-style-type: none"> for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals 	<p>9 N·m</p> <p>1.2 N·m</p>
design of the thread of the connection screw <ul style="list-style-type: none"> for main contacts of the auxiliary and control contacts 	<p>M10</p> <p>M3.5</p>

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 	<p>No</p> <p>No</p>
---	---------------------

Electrical Safety

protection class IP on the front according to IEC 60529	<p>IP20</p>
--	-------------

Approvals Certificates

General Product Approval	other	Environment
---------------------------------	--------------	--------------------

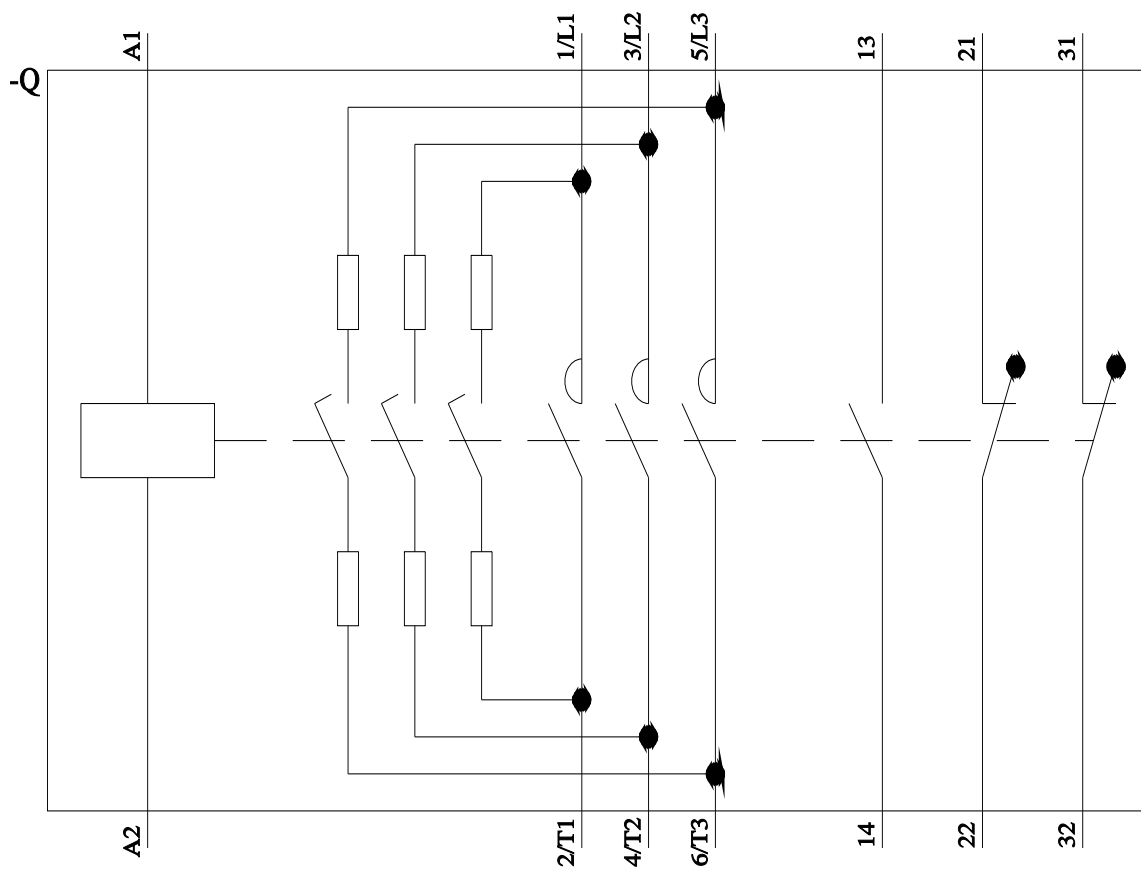


[Confirmation](#)

[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=3MT7006-0JA12-6AN2>
- Cax online generator
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7006-0JA12-6AN2>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3MT7006-0JA12-6AN2>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7006-0JA12-6AN2&lang=en
- Characteristic: Tripping characteristics, I²t, Let-through current
<https://support.industry.siemens.com/cs/ww/en/ps/3MT7006-0JA12-6AN2/char>
- Further characteristics (e.g. electrical endurance, switching frequency)
<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7006-0JA12-6AN2&objecttype=14&gridview=view1>



last modified:

1/17/2024 



75 kvar Capacitor duty contactor 1NO + 2NC aux contact 220 V AC, 50/60 Hz coil

product brand name	SINOVA
product designation	Capacitor contactor
product type designation	3MT7
General technical data	
size of contactor	6
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	1.8 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	108 A
operating reactive power	
• at 240 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	44.9 kvar
• at 400/415 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	75 kvar
• at 440 V at 50/60 Hz 3 phase at ambient temperature 40 °C rated value	80 kvar
• at 600 V at 60 Hz 3 phase at ambient temperature 40 °C rated value	90 kvar
no-load switching frequency	
• at AC	1 800 1/h
operating frequency at AC-6b	
• at 240 V maximum	100 1/h

<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> at 50 Hz rated value 	220 V
<ul style="list-style-type: none"> at 50 Hz rated value 	220 ... 220 V
<ul style="list-style-type: none"> at 60 Hz rated value 	220 V
<ul style="list-style-type: none"> at 60 Hz rated value 	220 ... 220 V
control supply voltage frequency	
<ul style="list-style-type: none"> 1 rated value 	50 Hz
<ul style="list-style-type: none"> 2 rated value 	60 Hz
operating range factor control supply voltage rated value of magnet coil at AC	
<ul style="list-style-type: none"> at 50 Hz 	0.85 ... 1.1
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> attachable 	0
<ul style="list-style-type: none"> instantaneous contact 	2
number of NO contacts for auxiliary contacts	1
<ul style="list-style-type: none"> attachable 	0
<ul style="list-style-type: none"> instantaneous contact 	1
operational current of auxiliary contacts at AC-15	
<ul style="list-style-type: none"> at 230 V 	2.09 A
<ul style="list-style-type: none"> at 400 V 	1.25 A
operational current of auxiliary contacts at DC-13	
<ul style="list-style-type: none"> at 24 V 	5 A
<ul style="list-style-type: none"> at 110 V 	0.59 A
<ul style="list-style-type: none"> at 125 V 	0.59 A
<ul style="list-style-type: none"> at 220 V 	0.28 A
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
<ul style="list-style-type: none"> for short-circuit protection of the main circuit <ul style="list-style-type: none"> with type of coordination 1 required 	gG: 125 A (440 V, 50 kA)
<ul style="list-style-type: none"> 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	200 mm
width	85 mm
depth	157 mm
required spacing for grounded parts at the side	12 mm
Connections/ Terminals	
type of electrical connection	
<ul style="list-style-type: none"> for main current circuit 	screw-type terminals
<ul style="list-style-type: none"> for auxiliary and control circuit 	screw-type terminals
type of connectable conductor cross-sections for main contacts	
<ul style="list-style-type: none"> solid or stranded 	1x (4 ... 70 mm ²), 2x (4 ... 35 mm ²)
connectable conductor cross-section for main contacts	
<ul style="list-style-type: none"> solid or stranded 	4 ... 35 mm ²
<ul style="list-style-type: none"> finely stranded with pin-end connector 	50 ... 4 mm ²
<ul style="list-style-type: none"> finely stranded without core end processing 	4 ... 50 mm ²
connectable conductor cross-section for auxiliary contacts	
<ul style="list-style-type: none"> solid or stranded 	1 ... 4 mm ²

<ul style="list-style-type: none"> finely stranded with core end processing finely stranded without core end processing 	<p>1 ... 4 mm²</p> <p>1 ... 4 mm²</p>
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 	<p>1x (1 ... 4mm²), 2x (1 ... 4mm²)</p> <p>1x (1 ... 4 mm²), 2x (1 ... 4 mm²)</p> <p>1x (1 ... 4 mm²), 2x (1 ... 2.5 mm²)</p> <p>14</p>
AWG number as coded connectable conductor cross section <ul style="list-style-type: none"> for main contacts for auxiliary contacts 	<p>4 ... 1</p> <p>14 ... 14</p>
tightening torque <ul style="list-style-type: none"> for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals 	<p>9 N·m</p> <p>1.2 N·m</p>
design of the thread of the connection screw <ul style="list-style-type: none"> for main contacts of the auxiliary and control contacts 	<p>M10</p> <p>M3.5</p>

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 	<p>No</p> <p>No</p>
---	---------------------

Electrical Safety

protection class IP on the front according to IEC 60529	<p>IP20</p>
--	-------------

Approvals Certificates

General Product Approval	other	Environment
---------------------------------	--------------	--------------------

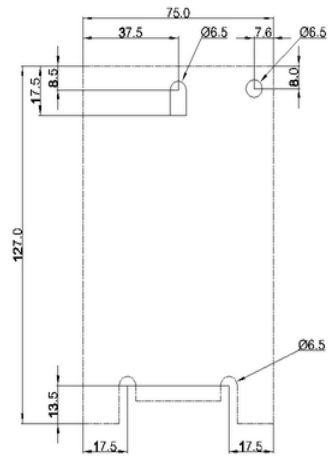
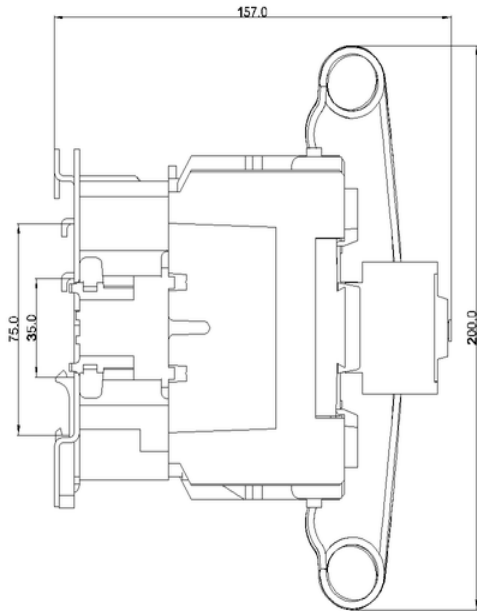
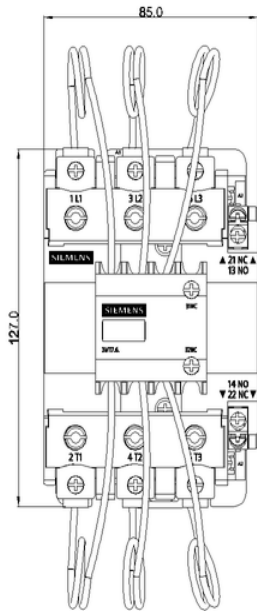


[Confirmation](#)

[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=3MT7007-5JA12-6AN2>
Cax online generator
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7007-5JA12-6AN2>
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3MT7007-5JA12-6AN2>
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7007-5JA12-6AN2&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
<https://support.industry.siemens.com/cs/ww/en/ps/3MT7007-5JA12-6AN2/char>
Further characteristics (e.g. electrical endurance, switching frequency)
<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3MT7007-5JA12-6AN2&objecttype=14&gridview=view1>





80 kvar Capacitor duty contactor 1NO + 2NC aux contact 220 V AC, 50 Hz coil

product brand name	SINOVA
product designation	Capacitor contactor
product type designation	3MT7
General technical data	
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
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	116 A
operating reactive power	
• at 240 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	48 kvar
• at 400/415 V at 50 Hz 3 phase at ambient temperature 40 °C rated value	80 kvar
• at 440 V at 50/60 Hz 3 phase at ambient temperature 40 °C rated value	88 kvar
• at 600 V at 60 Hz 3 phase at ambient temperature 40 °C rated value	96 kvar
no-load switching frequency	
• at AC	1 800 1/h
operating frequency at AC-6b	
• at 240 V maximum	100 1/h

<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> at 50 Hz rated value 	220 V
<ul style="list-style-type: none"> at 50 Hz rated value 	220 ... 220 V
control supply voltage frequency	
<ul style="list-style-type: none"> 1 rated value 	50 Hz
operating range factor control supply voltage rated value of magnet coil at AC	
<ul style="list-style-type: none"> at 50 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
<ul style="list-style-type: none"> attachable 	0
<ul style="list-style-type: none"> instantaneous contact 	2
number of NO contacts for auxiliary contacts	1
<ul style="list-style-type: none"> attachable 	0
<ul style="list-style-type: none"> instantaneous contact 	1
operational current of auxiliary contacts at AC-15	
<ul style="list-style-type: none"> at 230 V 	2.09 A
<ul style="list-style-type: none"> at 400 V 	1.25 A
operational current of auxiliary contacts at DC-13	
<ul style="list-style-type: none"> at 24 V 	5 A
<ul style="list-style-type: none"> at 110 V 	0.59 A
<ul style="list-style-type: none"> at 125 V 	0.59 A
<ul style="list-style-type: none"> at 220 V 	0.28 A
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
<ul style="list-style-type: none"> for short-circuit protection of the main circuit <ul style="list-style-type: none"> with type of coordination 1 required 	gG: 200 A (440 V, 50 kA)
<ul style="list-style-type: none"> 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 to two 35 mm DIN rails
height	186 mm
width	120 mm
depth	154 mm
required spacing for grounded parts at the side	12 mm
Connections/ Terminals	
type of electrical connection	
<ul style="list-style-type: none"> for main current circuit 	screw-type terminals
<ul style="list-style-type: none"> for auxiliary and control circuit 	screw-type terminals
type of connectable conductor cross-sections for main contacts	
<ul style="list-style-type: none"> solid or stranded 	1x (4 ... 95 mm ²), 2x (4 ... 50 mm ²)
connectable conductor cross-section for main contacts	
<ul style="list-style-type: none"> solid or stranded 	4 ... 95 mm ²
<ul style="list-style-type: none"> finely stranded with pin-end connector 	95 ... 4 mm ²
<ul style="list-style-type: none"> finely stranded without core end processing 	4 ... 95 mm ²
connectable conductor cross-section for auxiliary contacts	
<ul style="list-style-type: none"> solid or stranded 	1 ... 4 mm ²
<ul style="list-style-type: none"> finely stranded with core end processing 	1 ... 4 mm ²
<ul style="list-style-type: none"> finely stranded without core end processing 	1 ... 4 mm ²
type of connectable conductor cross-sections	
<ul style="list-style-type: none"> for auxiliary contacts 	

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

Safety related data

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

Electrical Safety

protection class IP on the front according to IEC 60529	IP20
--	------

Approvals Certificates

General Product Approval	other	Environment
---------------------------------	--------------	--------------------

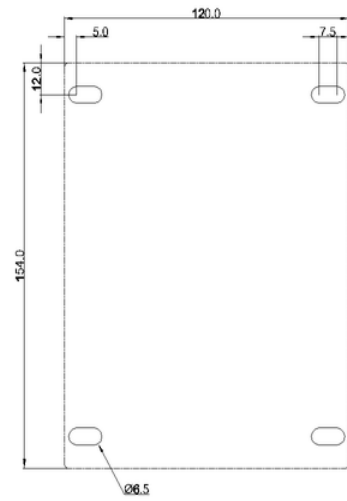
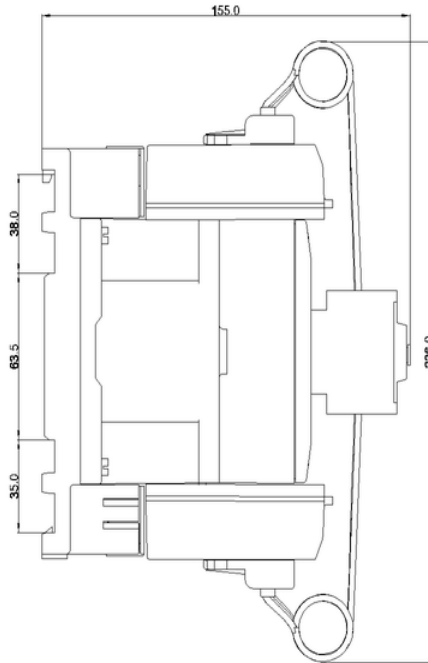
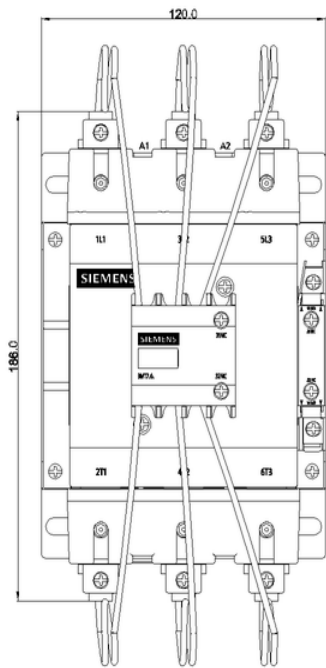


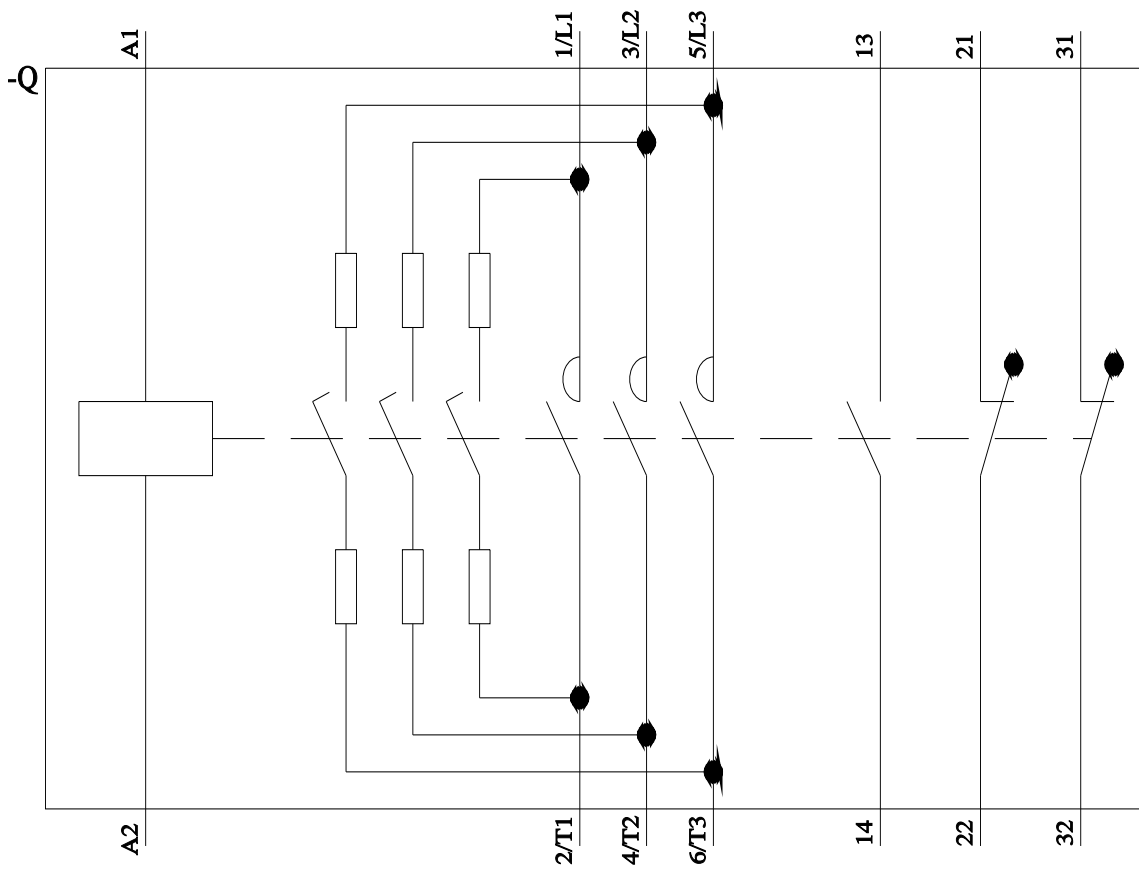
[Confirmation](#)

[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?mifb=3MT7008-0JA12-6AM0>
- Cax online generator**
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mifb=3MT7008-0JA12-6AM0>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
<https://support.industry.siemens.com/cs/ww/en/ps/3MT7008-0JA12-6AM0>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
http://www.automation.siemens.com/bilddb/cax_de.aspx?mifb=3MT7008-0JA12-6AM0&lang=en
- Characteristic: Tripping characteristics, I²t, Let-through current**
<https://support.industry.siemens.com/cs/ww/en/ps/3MT7008-0JA12-6AM0/char>
- Further characteristics (e.g. electrical endurance, switching frequency)**
<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mifb=3MT7008-0JA12-6AM0&objecttype=14&gridview=view1>





last modified:

1/17/2024 



100 kvar Capacitor duty contactor 1NO + 2NC aux contact 220 V AC, 50 Hz coil

product brand name	SINOVA
product designation	Capacitor contactor
product type designation	3MT7
General technical data	
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
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	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

<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> at 50 Hz rated value 	220 V
<ul style="list-style-type: none"> at 50 Hz rated value 	220 ... 220 V
control supply voltage frequency	
<ul style="list-style-type: none"> 1 rated value 	50 Hz
operating range factor control supply voltage rated value of magnet coil at AC	
<ul style="list-style-type: none"> at 50 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
<ul style="list-style-type: none"> attachable 	0
<ul style="list-style-type: none"> instantaneous contact 	2
number of NO contacts for auxiliary contacts	1
<ul style="list-style-type: none"> attachable 	0
<ul style="list-style-type: none"> instantaneous contact 	1
operational current of auxiliary contacts at AC-15	
<ul style="list-style-type: none"> at 230 V 	2.09 A
<ul style="list-style-type: none"> at 400 V 	1.25 A
operational current of auxiliary contacts at DC-13	
<ul style="list-style-type: none"> at 24 V 	5 A
<ul style="list-style-type: none"> at 110 V 	0.59 A
<ul style="list-style-type: none"> at 125 V 	0.59 A
<ul style="list-style-type: none"> at 220 V 	0.28 A
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
<ul style="list-style-type: none"> for short-circuit protection of the main circuit <ul style="list-style-type: none"> with type of coordination 1 required 	gG: 200 A (440 V, 50 kA)
<ul style="list-style-type: none"> 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 to two 35 mm DIN rails
height	186 mm
width	120 mm
depth	154 mm
required spacing for grounded parts at the side	12 mm
Connections/ Terminals	
type of electrical connection	
<ul style="list-style-type: none"> for main current circuit 	screw-type terminals
<ul style="list-style-type: none"> for auxiliary and control circuit 	screw-type terminals
type of connectable conductor cross-sections for main contacts	
<ul style="list-style-type: none"> solid or stranded 	1x (4 ... 95 mm ²), 2x (4 ... 50 mm ²)
connectable conductor cross-section for main contacts	
<ul style="list-style-type: none"> solid or stranded 	4 ... 95 mm ²
<ul style="list-style-type: none"> finely stranded with pin-end connector 	95 ... 4 mm ²
<ul style="list-style-type: none"> finely stranded without core end processing 	4 ... 95 mm ²
connectable conductor cross-section for auxiliary contacts	
<ul style="list-style-type: none"> solid or stranded 	1 ... 4 mm ²
<ul style="list-style-type: none"> finely stranded with core end processing 	1 ... 4 mm ²
<ul style="list-style-type: none"> finely stranded without core end processing 	1 ... 4 mm ²
type of connectable conductor cross-sections	
<ul style="list-style-type: none"> for auxiliary contacts 	

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

Safety related data

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

Electrical Safety

protection class IP on the front according to IEC 60529	IP20
--	------

Approvals Certificates

General Product Approval	other	Environment
---------------------------------	--------------	--------------------



[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?mifb=3MT7010-0JA12-6AM0>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mifb=3MT7010-0JA12-6AM0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3MT7010-0JA12-6AM0>

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

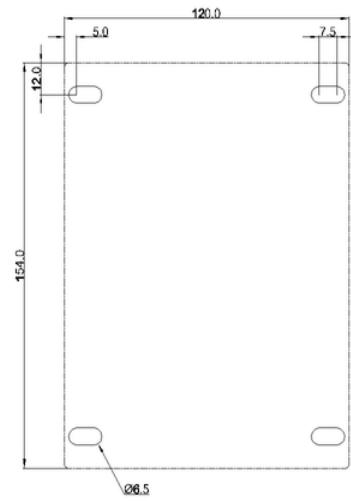
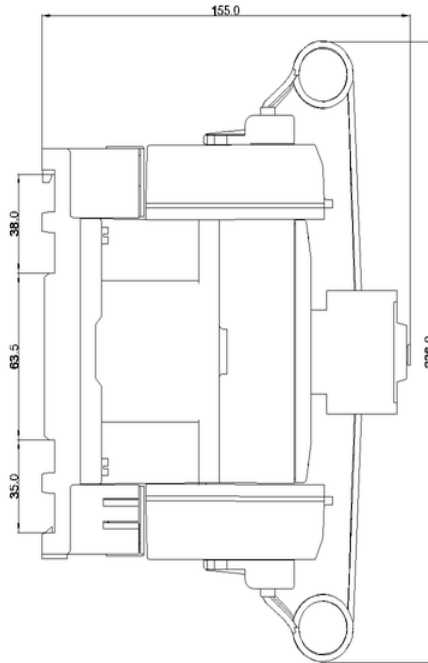
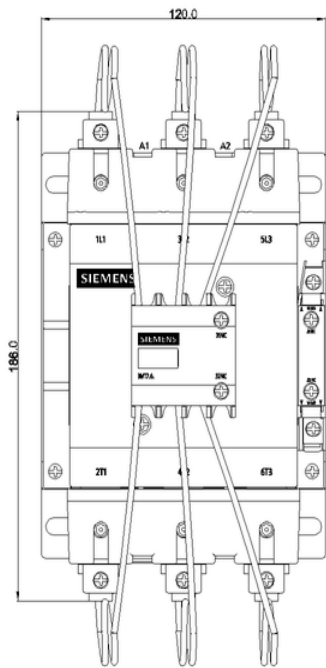
http://www.automation.siemens.com/bilddb/cax_de.aspx?mifb=3MT7010-0JA12-6AM0&lang=en

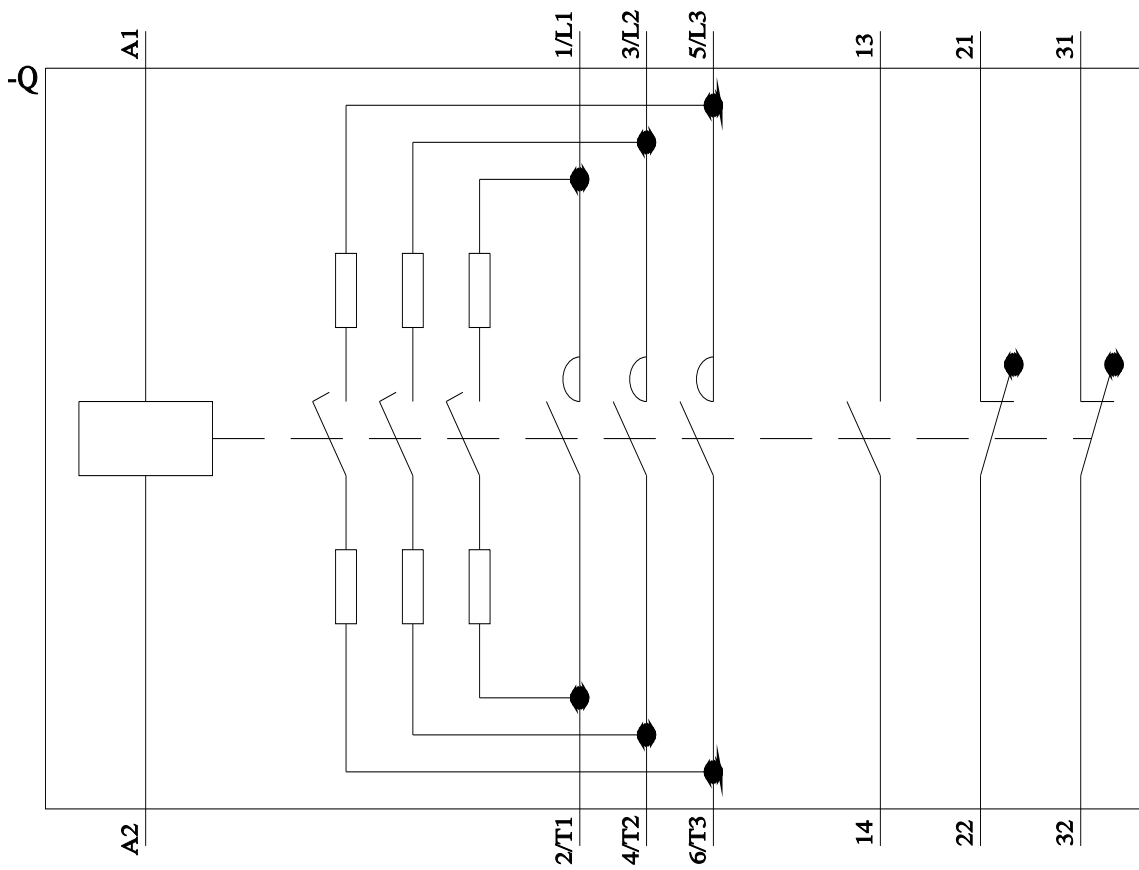
Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3MT7010-0JA12-6AM0/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mifb=3MT7010-0JA12-6AM0&objecttype=14&gridview=view1>





last modified:

1/17/2024 