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Data sheet 3MT7001-6JA11-6AP2

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

product brand name	SINOVA
product designation	Capacitor contactor
product type designation	3MT7
General technical data	
size of contactor	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
Net Weight	0.4 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	

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● 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	240 V
● at 50 Hz rated value	240 V
● at 60 Hz rated value	240 V
● at 60 Hz rated value	240 V
control supply voltage frequency	
● 1 rated value	50 Hz
● 2 rated value	60 Hz
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.85 ... 1.1
● at 60 Hz	0.85 ... 1.1
apparent pick-up power of magnet coil at AC	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 mm²), 2x (1.5 ... 6 mm²)
connectable conductor cross-section for main contacts	
● solid or stranded	1.5 ... 10 mm²
● finely stranded with pin-end connector	10 ... 1.5 mm²

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● finely stranded without core end processing	1 ... 4 mm²
connectable conductor cross-section for auxiliary contacts	
● solid or stranded	1 ... 4 mm²
● finely stranded with core end processing	1 ... 4 mm²
● finely stranded without core end processing	1 ... 4 mm²
type of connectable conductor cross-sections	
● for auxiliary contacts	
— solid or stranded	1x (1 ... 4mm²), 2x (1 ... 4mm²)
— finely stranded with core end processing	1x (1 ... 4 mm²), 2x (1 ... 4 mm²)
— finely stranded without core end processing	1x (1 ... 4 mm²), 2x (1 ... 2.5 mm²)
● for AWG cables for auxiliary contacts	14
AWG number as coded connectable conductor cross section for main contacts	12 ... 8
AWG number as coded connectable conductor cross section for auxiliary contacts	14
tightening torque	
● for main contacts with screw-type terminals	1.7 N·m
● for auxiliary contacts with screw-type terminals	1.2 N·m
design of the thread of the connection screw	
● for main contacts	M3.5
● 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

Environment	General Product Approval	other
Environmental Confirmations	UL, CE EG-Konf.	Confirmation

Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information for data generation and storage
https://support.industry.siemens.com/cs/ww/en/view/109995012
Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3MT7001-6JA11-6AP2
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7001-6JA11-6AP2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7001-6JA11-6AP2&lang=en
Cax online generator
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7001-6JA11-6AP2
Characteristic curves
https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod__no>

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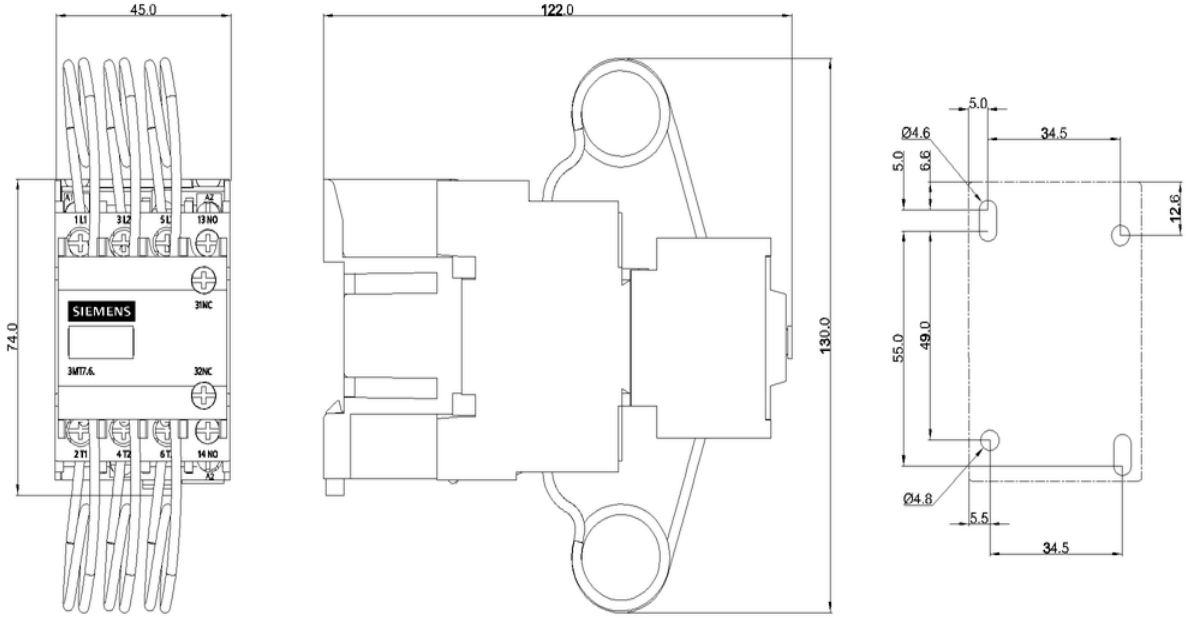

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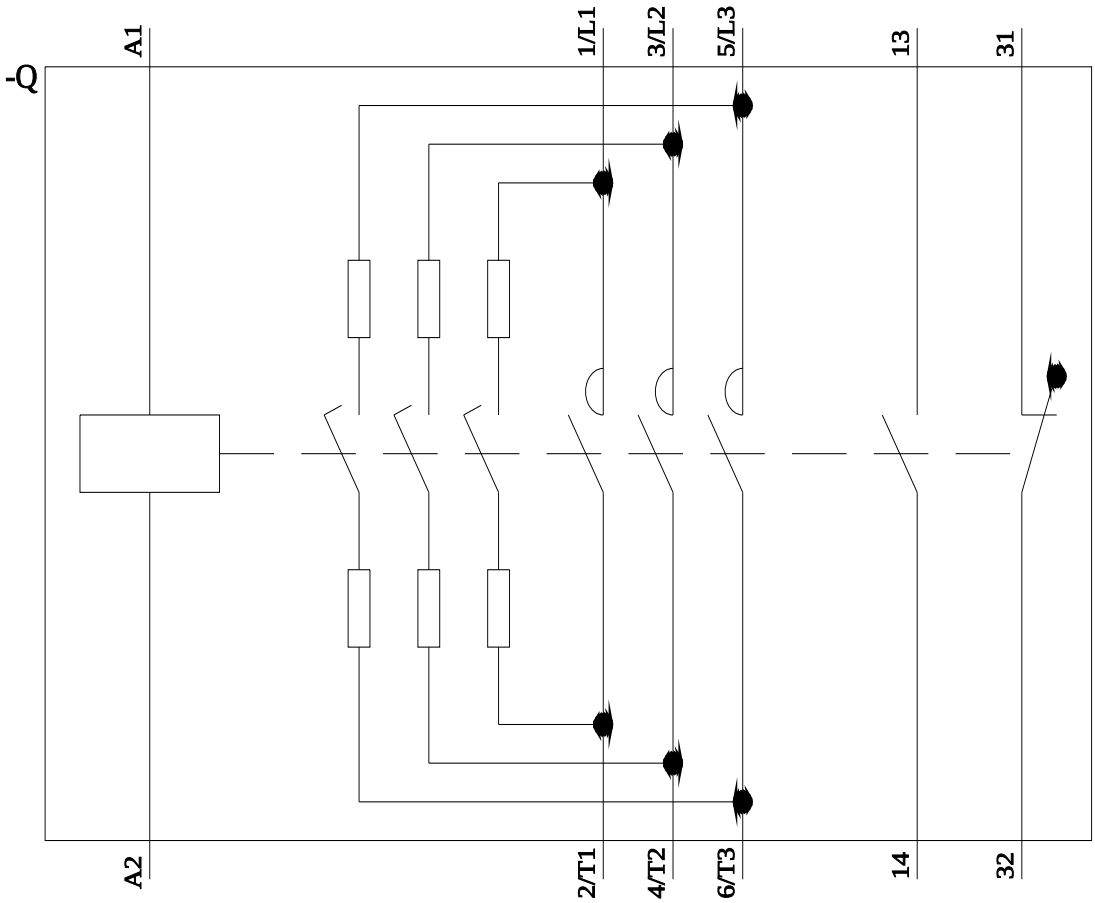

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