SIEMENS

Data sheet 3MT7004-0JA12-6AP2

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

product brand name	SINOVA
product designation	Capacitor contactor
product type designation	3MT7
General technical data	
size of contactor	5
product extension auxiliary switch	No
insulation voltage	
● of main circuit with degree of pollution 3 rated value	690 V
● of auxiliary circuit with degree of pollution 3 rated value	690 V
protection class IP	
● on the front	IP20
● of the terminal	IP00
mechanical service life (operating cycles)	
● of the contactor with added auxiliary switch block typical	100 000
electrical endurance (operating cycles)	100 000
reference code according to IEC 81346-2	Q
Net Weight	1.23 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	

Subject to change without notice
© Copyright Siemens

● at 240 V maximum	100 1/h
● at 400 V maximum	100 1/h
Control circuit/ Control	
type of voltage	AC
type of voltage of the control supply voltage	AC
control supply voltage at AC	
● at 50 Hz rated value	240 V
● at 50 Hz rated value	240 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	250 VA
apparent holding power of magnet coil at AC	37 VA
closing delay at AC	14 ... 25 ms
opening delay at AC	4 ... 15 ms
arcing time	4 ... 15 ms
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
● attachable	0
● instantaneous contact	2
number of NO contacts for auxiliary contacts	1
● attachable	0
● instantaneous contact	1
operational current of auxiliary contacts at AC-15	
● at 230 V	2.09 A
● at 400 V	1.25 A
operational current of auxiliary contacts at DC-13	
● at 24 V	5 A
● at 110 V	0.59 A
● at 125 V	0.59 A
● at 220 V	0.28 A
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
● for short-circuit protection of the main circuit	
— with type of coordination 1 required	gG: 80 A (440 V, 50 kA)
● for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm and 75 mm DIN rail
height	180 mm
width	75 mm
depth	150 mm
required spacing for grounded parts at the side	12 mm
Connections/ Terminals	
type of electrical connection	
● for main current circuit	screw-type terminals
● for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts	
● solid or stranded	1x (2.5 ... 25 mm²), 2x (2.5 ... 16 mm²)
connectable conductor cross-section for main contacts	
● solid or stranded	2.5 ... 25 mm²
● finely stranded with pin-end connector	35 ... 2.5 mm²

© Copyright Siemens

● finely stranded without core end processing	2.5 ... 35 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	10 ... 3
AWG number as coded connectable conductor cross section for auxiliary contacts	14
tightening torque	
● for main contacts with screw-type terminals	5 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

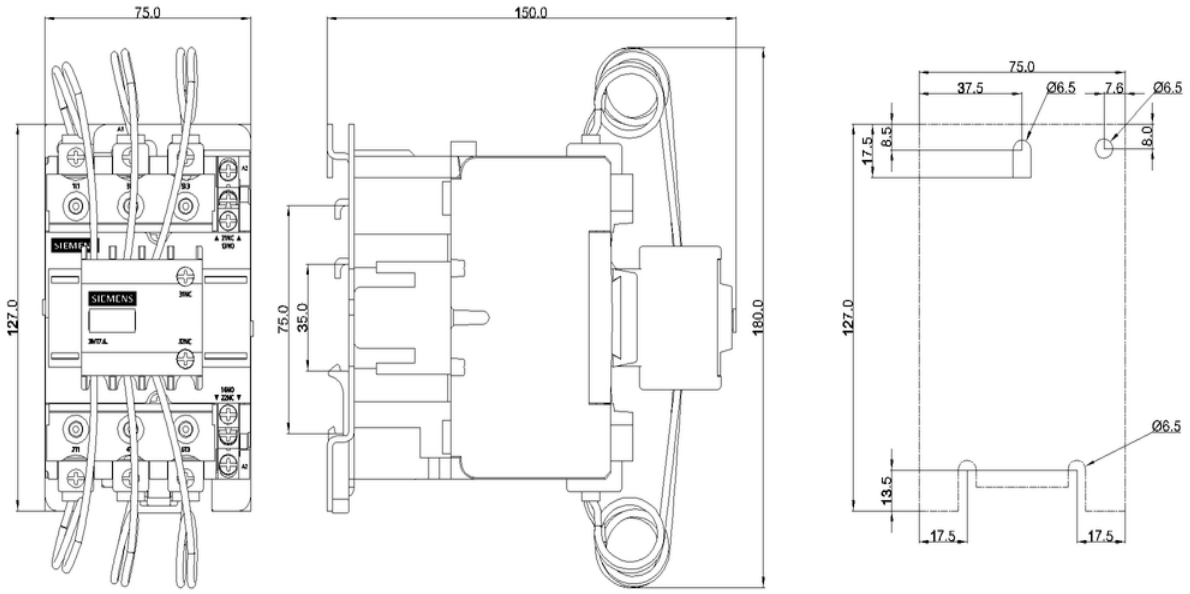
Approvals Certificates

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

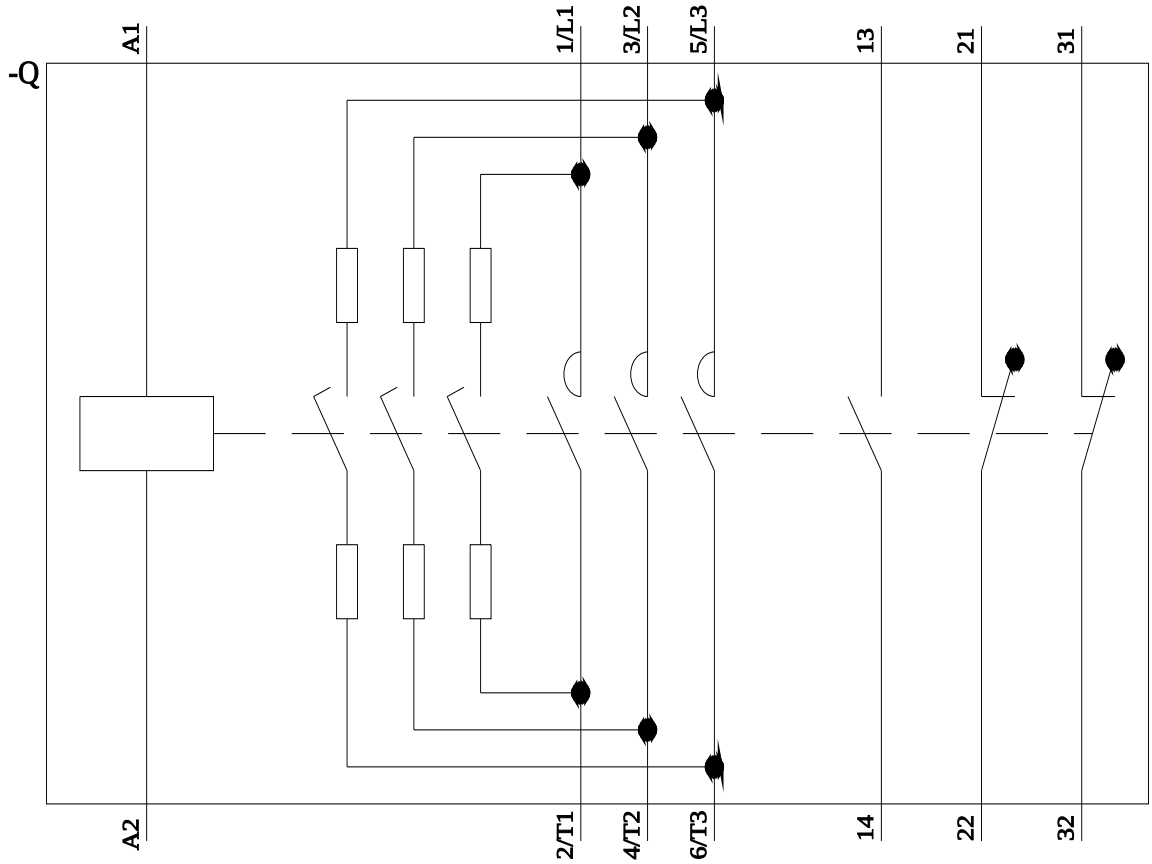
Further information

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=3MT7004-0JA12-6AP2
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3MT7004-0JA12-6AP2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3MT7004-0JA12-6AP2&lang=en
Cax online generator
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3MT7004-0JA12-6AP2
Characteristic curves
https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod__no>

Subject to change without notice
© Copyright Siemens



Subject to change without notice
© Copyright Siemens



last modified: 4/4/2025

Subject to change without notice
© Copyright Siemens