SIEMENS

Data sheet 3RT2646-1AF03

Capacitor contactor, AC-6b 100 kVAr, / 400 V 1 NO + 1 NC, 110 V AC, 50 Hz 3-pole, Size S3 screw terminal



Product brand name	SIRIUS
Product designation	capacitor contactors
Product type designation	3RT26

General technical data	
Size of contactor	S3
Product extension	
Auxiliary switch	Yes
Surge voltage resistance	
of main circuit rated value	8 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for safe isolation	
 between coil and main contacts acc. to EN 60947-1 	400 V
Protection class IP	
• on the front	IP00
• of the terminal	IP00
Shock resistance at rectangular impulse	
• at AC	6,8g / 5 ms, 4g / 10 ms
Shock resistance with sine pulse	

● at AC	10,6g / 5 ms, 6,2g / 10 ms
Mechanical service life (switching cycles)	
 of the contactor with added auxiliary switch block typical 	3 000 000
Electrical endurance (switching cycles)	120 000
Reference code acc. to DIN EN 81346-2	Q
Ambient conditions	
Installation altitude at height above sea level	
• maximum	2 000 m
Ambient temperature	
 during operation 	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
Number of NO contacts for main contacts	3
Number of NC contacts for main contacts	0
Operating current	
 at AC-6b at 690 V at ambient temperature 60 C rated value 	144 A
Operational reactive power at AC-6b	
 at 230 V at 50/60 Hz at ambient temperature 60 C rated value 	19 57 kvar
 at 400 V at 50/60 Hz at ambient temperature 60 C rated value 	33 100 kvar
 at 500 V at 50/60 Hz at ambient temperature 60 °C rated value 	41 125 kvar
 at 690 V at 50/60 Hz at ambient temperature 60 °C rated value 	57 172 kvar
No-load switching frequency	
• at AC	500 1/h
Operating frequency at AC-6b	
• at 230 V maximum	150 1/h
• at 240 V maximum	150 1/h
• at 400 V maximum	80 1/h
• at 480 V maximum	53 1/h
● at 500 V maximum	53 1/h
● at 600 V maximum	32 1/h
• at 690 V maximum	30 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	110 V

Control supply voltage frequency	
• 1 rated value	50 Hz
Operating range factor control supply voltage rated	
value of magnet coil at AC	
● at 50 Hz	0.8 1.1
Apparent pick-up power of magnet coil at AC	296 V·A
Inductive power factor with closing power of the coil	0.61
Apparent holding power of magnet coil at AC	19 V·A
Inductive power factor with the holding power of the coil	0.38
Closing delay	
• at AC	15 25 ms
Arcing time	10 15 ms
Auxiliary circuit	
Number of NC contacts for auxiliary contacts	1
attachable	1
• instantaneous contact	1
Number of NO contacts for auxiliary contacts	1.
• attachable	1
• instantaneous contact	1
Operating current of auxiliary contacts at AC-12	10 A
maximum	
Operating current of auxiliary contacts at AC-15	
• at 230 V	6 A
• at 400 V	3 A
Operating current of auxiliary contacts at DC-13	C A
• at 24 V	6 A
• at 60 V	2 A
• at 110 V	1 A
• at 125 V	0.9 A
• at 220 V	0.3 A
Contact reliability of auxiliary contacts	0.0000001
UL/CSA ratings	
Contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
Design of the fuse link	
• for short-circuit protection of the main circuit	
— with type of coordination 1 required	gG: 250 A (690 V, 50 kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	

Mounting type screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 Height Width Depth 80 mm Sequired spacing • with side-by-side mounting — at the side • for grounded parts — at the side • for grounded parts — at the side • for main current circuit • for auxiliary and control current circuit Screw-type terminals Type of connectable conductor cross-sections • for main contacts — solid — stranded — single or multi-stranded — finely stranded with core end processing • at AWG conductors for main contacts — solid — finely stranded with core end processing • at AWG conductors for auxiliary contacts — solid — finely stranded with core end processing • at AWG conductors for main contacts — solid — finely stranded with core end processing • at AWG conductors for main contacts — solid — finely stranded with core end processing • at AWG conductors for main contacts — solid — finely stranded with core end processing • at AWG conductors for main contacts — solid — finely stranded with core end processing • at AWG conductors for auxiliary contacts Type of minimum connectable cross-section for main contacts at AC-6b • at 40 °C • at 60 °C AWG number as coded connectable conductor cross-section for main contacts section for main contacts	Mounting position	+/-180° rotation possible on vertical mounting surface; can be
Serew and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022	mounting position	
Height 140 mm 80 mm Depth 152 mm Required spacing • with side-by-side mounting — at the side • for grounded parts — at the side • for grounded parts — at the side • 10 mm Connections/ Terminals Type of electrical connection • for main current circuit screw-type terminals Type of onnectable conductor cross-sections • for main current circuit screw-type terminals Type of connectable conductor cross-sections • for main contacts — solid 2x (10 16 mm²) — stranded — single or multi-stranded 2x (10 70 mm²), 1x (10 70 mm²) • at AWG conductors for main contacts 2x (8 3/0), 1x (6 3/0) Type of connectable conductor cross-sections • for auxiliary contacts — solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 3 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 3 mm² 2x (20 16), 2x (18 14), 2x 12		surface
Height Width 80 mm Depth 152 mm Required spacing • with side-by-side mounting — at the side 10 mm • for grounded parts — at the side 10 mm Connections/ Terminals Type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control current circuit screw-type terminals Type of connectable conductor cross-sections • for main contacts — solid 2x (10 16 mm²) 2x (10 70 mm²) 1x (10 70 mm²) 2x (10 70 mm²) 2x (10 70 mm²) 2x (10 50 mm²) 2x (10	Mounting type	
Width Depth 152 mm 152		
Depth 152 mm Required spacing • with side-by-side mounting — at the side 10 mm Connections/ Terminals		
Required spacing • with side-by-side mounting — at the side • for grounded parts • for awailiary and control current circuit • for auxiliary and control current circuit screw-type terminals Type of connectable conductor cross-sections • for main contacts — solid — stranded — single or multi-stranded — finely stranded with core end processing • at AWG conductors for main contacts Type of connectable conductor cross-sections • for auxiliary contacts — solid — single or multi-stranded — finely stranded with core end processing • at AWG conductors for auxiliary contacts Type of minimum connectable cross-section for main contacts at AC-8b • at 40 °C • at 60 °C AWG number as coded connectable conductor cross-section for main contacts Sefety related date Product function • Mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5-1		
• with side-by-side mounting — at the side • for grounded parts — at the side Type of electrical connection • for main current circuit • for auxiliary and control current circuit — solid — stranded — single or multi-stranded — single or multi-stranded — finely stranded with core end processing • at AWG conductors for main contacts — solid — single or multi-stranded — finely stranded with core end processing • at AWG conductors for main contacts — solid — single or multi-stranded — finely stranded with core end processing • at AWG conductors for auxiliary contacts — solid — single or multi-stranded — finely stranded with core end processing • at AWG conductors for auxiliary contacts Type of minimum connectable cross-section for main contacts at AC-6b • at 40 °C • at 60 °C AWG number as coded connectable conductor cross section for main contacts Safety related data Product function • Mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5-1 10 mm 1	·	152 mm
of regrounded parts		
• for grounded parts — at the side Type of electrical connection • for main current circuit • for auxiliary and control current circuit Screw-type terminals Type of connectable conductor cross-sections • for main contacts — solid — stranded — single or multi-stranded — finely stranded with core end processing • at AWG conductors for main contacts — solid — single or multi-stranded — finely stranded with core end processing • at AWG conductors for main contacts — solid — single or multi-stranded — finely stranded with core end processing • for auxiliary contacts — solid — single or multi-stranded — finely stranded with core end processing • for auxiliary contacts — solid — single or multi-stranded — finely stranded with core end processing • at AWG conductors for auxiliary contacts Type of minimum connectable cross-section for main contacts at AC-6b • at 40 °C • at 60 °C AWG number as coded connectable conductor cross section for main contacts Safety related data Product function • Mirror contact acc. to IEC 60947-8-1 • positively driven operation acc. to IEC 60947-5-1 1		40
Connections/ Terminals Type of electrical connection • for main current circuit • for auxiliary and control current circuit Type of connectable conductor cross-sections • for main contacts — solid — stranded — single or multi-stranded — finely stranded with core end processing • at AWG conductors for main contacts — solid — single or multi-stranded — finely stranded with core end processing • at AWG conductors for main contacts — solid — single or multi-stranded — finely stranded with core end processing • at AWG conductors for main contacts — solid — single or multi-stranded — finely stranded with core end processing • at AWG conductor cross-sections • for auxiliary contacts — solid — single or multi-stranded — finely stranded with core end processing • at AWG conductors for auxiliary contacts Type of minimum connectable cross-section for main contacts at AC-8b • at 40 °C • at 60 °C AWG number as coded connectable conductor cross section for main contacts Safety related data Product function • Mirror contact acc. to IEC 60947-5-1 • positively driven operation acc. to IEC 60947-5-1		10 mm
Connections/ Terminals Type of electrical connection • for main current circuit • for auxiliary and control current circuit Type of connectable conductor cross-sections • for main contacts — solid — stranded — single or multi-stranded — finely stranded with core end processing • at AWG conductors for main contacts — solid — single or multi-stranded — finely stranded with core end processing • for auxiliary contacts — solid — single or multi-stranded — finely stranded with core end processing • for auxiliary contacts — solid — single or multi-stranded — finely stranded with core end processing • for auxiliary contacts — solid — single or multi-stranded — finely stranded with core end processing • at AWG conductors for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12 Type of minimum connectable cross-section for main contacts at AC-6b • at 40 °C • at 60 °C AWG number as coded connectable conductor cross section for main contacts Safety related data Product function • Mirror contact acc. to IEC 60947-5-1 • positively driven operation acc. to IEC 60947-5-1 • positively driven operation acc. to IEC 60947-5-1		va.
Type of electrical connection • for main current circuit • for auxiliary and control current circuit Type of connectable conductor cross-sections • for main contacts — solid — stranded — single or multi-stranded — finely stranded with core end processing • for auxiliary contacts — solid — staw G connectable conductor cross-sections • for auxiliary contacts — solid — single or multi-stranded — finely stranded with core end processing • for auxiliary contacts — solid — single or multi-stranded — finely stranded with core end processing • for auxiliary contacts — solid — single or multi-stranded — finely stranded with core end processing • at AWG conductors for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (— at the side	10 mm
for main current circuit for auxiliary and control current circuit Type of connectable conductor cross-sections for main contacts — solid — stranded — stranded — single or multi-stranded — finely stranded with core end processing • for auxiliary contacts Type of connectable conductor cross-sections for auxiliary contacts — solid — single or multi-stranded — single or multi-stranded — solid — solid — stawage or multi-stranded — finely stranded with core end processing • at AWG conductors for main contacts — solid — solid — single or multi-stranded — finely stranded with core end processing • at AWG conductors for auxiliary contacts — single or multi-stranded — finely stranded with core end processing • at AWG conductors for auxiliary contacts Type of minimum connectable cross-section for main contacts at AC-6b • at 40 °C • at 60 °C AWG number as coded connectable conductor cross section for main contacts Safety related data Product function • Mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5-1 • positively driven operation acc. to IEC 60947-5-1	Connections/ Terminals	
• for auxiliary and control current circuit Type of connectable conductor cross-sections • for main contacts — solid — stranded — single or multi-stranded — finely stranded with core end processing • at AWG conductors for main contacts — solid — single or multi-stranded — finely stranded with core end processing • at AWG conductors for main contacts 2x (10 70 mm²), 1x (10 70 mm²) 2x (10 50 mm²) 2x (10 50 mm²) 2x (10 50 mm²) 2x (8 3/0), 1x (6 3/0) Type of connectable conductor cross-sections • for auxiliary contacts — solid — single or multi-stranded — finely stranded with core end processing • at AWG conductors for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (20 16), 2x (18 14), 2x 12 Type of minimum connectable cross-section for main contacts at AC-6b • at 40 °C • at 60 °C AWG number as coded connectable conductor cross section for main contacts Safety related data Product function • Mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5-1	Type of electrical connection	
Type of connectable conductor cross-sections • for main contacts — solid — stranded — single or multi-stranded — finely stranded with core end processing • at AWG conductors for main contacts — solid — solid — single or multi-stranded — finely stranded with core end processing • at AWG conductors for main contacts 2x (10 70 mm²), 1x (10 70 mm²) 2x (10 50 mm²) 2x (10 50 mm²) 2x (8 3/0), 1x (6 3/0) Type of connectable conductor cross-sections • for auxiliary contacts — solid — single or multi-stranded — finely stranded with core end processing • at AWG conductors for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (20 16), 2x (18 14), 2x 12 Type of minimum connectable cross-section for main contacts at AC-8b • at 40 °C • at 60 °C AWG number as coded connectable conductor cross section for main contacts Safety related data Product function • Mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5-1	for main current circuit	screw-type terminals
 • for main contacts — solid — stranded — stranded — single or multi-stranded — finely stranded with core end processing • at AWG conductors for main contacts — solid — solid — solid — single or multi-stranded — finely stranded with core end processing • at AWG conductors for main contacts 2x (10 70 mm²), 1x (10 70 mm²) 2x (8 3/0), 1x (6 3/0) Type of connectable conductor cross-sections • for auxiliary contacts — solid — single or multi-stranded — finely stranded with core end processing • at AWG conductors for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • at AWG conductors for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12 Type of minimum connectable cross-section for main contacts at AC-6b • at 40 °C • at 60 °C AWG number as coded connectable conductor cross section for main contacts Safety related data Product function • Mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5-1 1 No No No 	 for auxiliary and control current circuit 	screw-type terminals
- solid - stranded - single or multi-stranded - finely stranded with core end processing • at AWG conductors for main contacts Type of connectable conductor cross-sections • for auxiliary contacts - solid - single or multi-stranded 2x (10 70 mm²), 1x (10 70 mm²) 2x (8 3/0), 1x (6 3/0) Type of connectable conductor cross-sections • for auxiliary contacts - solid - single or multi-stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 1.5 mm²)	Type of connectable conductor cross-sections	
- stranded - single or multi-stranded - finely stranded with core end processing • at AWG conductors for main contacts 2x (10 70 mm²), 1x (10 70 mm²) 2x (10 50 mm²) 2x (8 3/0), 1x (6 3/0) Type of connectable conductor cross-sections • for auxiliary contacts - solid - single or multi-stranded - single or multi-stranded - single or multi-stranded - finely stranded with core end processing • at AWG conductors for auxiliary contacts Type of minimum connectable cross-section for main contacts at AC-6b • at 40 °C • at 60 °C AWG number as coded connectable conductor cross section for main contacts Safety related data Product function • Mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5-1	• for main contacts	
- single or multi-stranded - finely stranded with core end processing • at AWG conductors for main contacts Type of connectable conductor cross-sections • for auxiliary contacts - solid - single or multi-stranded - finely stranded with core end processing • at AWG conductors for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • at AWG conductors for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12 Type of minimum connectable cross-section for main contacts at AC-6b • at 40 °C • at 60 °C AWG number as coded connectable conductor cross section for main contacts Safety related data Product function • Mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5-1	— solid	2x (10 16 mm²)
 finely stranded with core end processing at AWG conductors for main contacts 7 type of connectable conductor cross-sections for auxiliary contacts solid single or multi-stranded finely stranded with core end processing at AWG conductors for auxiliary contacts at AWG conductors for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (20 16), 2x (18 14), 2x 12 Type of minimum connectable cross-section for main contacts at AC-6b at 40 °C at 60 °C AWG number as coded connectable conductor cross section for main contacts at 60 °C AWG number as coded connectable conductor cross section for main contacts AWG number as coded connectable conductor cross section for main contacts AWG number as coded connectable conductor cross section for main contacts AWG number as coded connectable conductor cross section for main contacts No positively driven operation acc. to IEC 60947-4-1 positively driven operation acc. to IEC 60947-5-1 No 	— stranded	2x (10 70 mm²), 1x (10 70 mm²)
 at AWG conductors for main contacts Type of connectable conductor cross-sections for auxiliary contacts — solid — single or multi-stranded — finely stranded with core end processing • at AWG conductors for auxiliary contacts Type of minimum connectable cross-section for main contacts at AC-6b • at 40 °C • at 60 °C AWG number as coded connectable conductor cross section for main contacts Product function • Mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5-1 	— single or multi-stranded	2x (10 70 mm²), 1x (10 70 mm²)
Type of connectable conductor cross-sections	— finely stranded with core end processing	2x (10 50 mm²)
 for auxiliary contacts — solid — single or multi-stranded — finely stranded with core end processing • at AWG conductors for auxiliary contacts Type of minimum connectable cross-section for main contacts at AC-6b • at 40 °C • at 60 °C AWG number as coded connectable conductor cross section for main contacts Safety related data Product function • Mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5-1 1 x 70 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.5 2.5	 at AWG conductors for main contacts 	2x (8 3/0), 1x (6 3/0)
- solid - single or multi-stranded - single or multi-stranded - finely stranded with core end processing • at AWG conductors for auxiliary contacts Type of minimum connectable cross-section for main contacts at AC-6b • at 40 °C • at 60 °C AWG number as coded connectable conductor cross section for main contacts Safety related data Product function • Mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5- 1 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12 1x 70 mm² 2x 50 mm² 8	Type of connectable conductor cross-sections	
- single or multi-stranded - finely stranded with core end processing • at AWG conductors for auxiliary contacts Type of minimum connectable cross-section for main contacts at AC-6b • at 40 °C • at 60 °C AWG number as coded connectable conductor cross section for main contacts Safety related data Product function • Mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5-1	 for auxiliary contacts 	
 finely stranded with core end processing at AWG conductors for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12 Type of minimum connectable cross-section for main contacts at AC-6b at 40 °C at 60 °C 2x 50 mm² AWG number as coded connectable conductor cross section for main contacts Safety related data Product function Mirror contact acc. to IEC 60947-4-1 positively driven operation acc. to IEC 60947-5-1 No No No	— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
 at AWG conductors for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12 Type of minimum connectable cross-section for main contacts at AC-6b at 40 °C at 60 °C AWG number as coded connectable conductor cross section for main contacts Safety related data Product function Mirror contact acc. to IEC 60947-4-1 positively driven operation acc. to IEC 60947-5-1 No No	— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
Type of minimum connectable cross-section for main contacts at AC-6b • at 40 °C • at 60 °C AWG number as coded connectable conductor cross section for main contacts Safety related data Product function • Mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5-1	 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
contacts at AC-6b • at 40 °C • at 60 °C AWG number as coded connectable conductor cross section for main contacts Safety related data Product function • Mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5-1	 at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14), 2x 12
 at 40 °C at 60 °C AWG number as coded connectable conductor cross section for main contacts Safety related data Product function Mirror contact acc. to IEC 60947-4-1 positively driven operation acc. to IEC 60947-5-1 No No 	• •	
at 60 °C AWG number as coded connectable conductor cross section for main contacts Safety related data Product function Mirror contact acc. to IEC 60947-4-1 positively driven operation acc. to IEC 60947-5-1 No		. 70
AWG number as coded connectable conductor cross section for main contacts Safety related data Product function • Mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5-1		
Safety related data Product function • Mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5- 1		
Product function • Mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5- 1		8
Product function • Mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5- 1	section for main contacts	
 Mirror contact acc. to IEC 60947-4-1 positively driven operation acc. to IEC 60947-5-1 	Safety related data	
• positively driven operation acc. to IEC 60947-5- 1	Product function	
1	 Mirror contact acc. to IEC 60947-4-1 	No
Protection against electrical shock Not finger-safe		No
	Protection against electrical shock	Not finger-safe

Certificates/ approvals

General Product Approval

EMC

Declaration of Conformity











Miscellaneous

Test	Certific-
ates	

Marine / Ship-

other

ping

Confirmation

Type Test Certificates/Test Report



Further information

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=3RT2646-1AF03

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2646-1AF03

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2646-1AF03

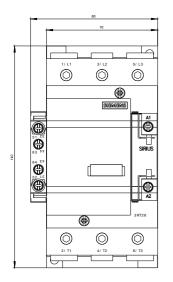
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2646-1AF03&lang=en

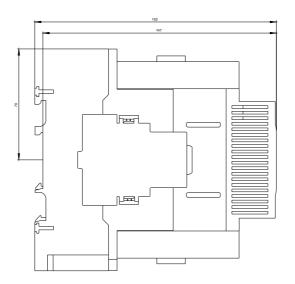
Characteristic: Tripping characteristics, I²t, Let-through current

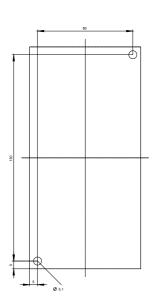
https://support.industry.siemens.com/cs/ww/en/ps/3RT2646-1AF03/char

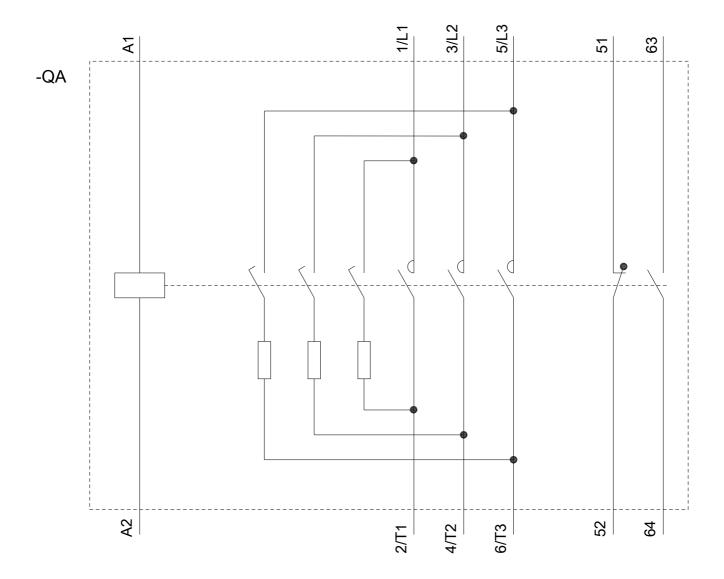
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2646-1AF03&objecttype=14&gridview=view1









last modified: 04/11/2020