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Data sheet 3RT1373-6AP36

Contactor, AC-1, 400 A/400 V/40 °C, S12, 4-pole, 100-250 V AC/DC, 2 NO+2 NC, Connection rail/ screw terminal

product brand name	SIRIUS
product designation	Contactor
product type designation	3RT13
General technical data	
size of contactor	S12
product extension	
● function module for communication	No
● auxiliary switch	Yes
power loss [W] for rated value of the current	
● at AC in hot operating state	128 W
● at AC in hot operating state per pole	32 W
● without load current share typical	4.5 W
type of calculation of power loss current-dependent	quadratic
insulation voltage	
● of main circuit with degree of pollution 3 rated value	1 000 V
● of the auxiliary and control circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
● of main circuit rated value	8 kV
● of auxiliary circuit rated value	6 kV
reference code according to IEC 81346-2	Q
Substance Prohibitance (day/month/year)	03/27/2017
Net Weight	6.467 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
● during operation	-40 ... +60 °C
● during storage	-40 ... +70 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	4
number of NO contacts for main contacts	4
type of voltage for main current circuit	AC
operational current	
● at AC-1 at 400 V at ambient temperature 40 °C rated value	400 A
● at AC-1	
— up to 690 V at ambient temperature 40 °C rated	400 A

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value	
— up to 690 V at ambient temperature 60 °C rated value	350 A
— up to 1000 V at ambient temperature 40 °C rated value	350 A
— up to 1000 V at ambient temperature 60 °C rated value	300 A
● at AC-3	
— at 400 V rated value	265 A
minimum cross-section in main circuit at maximum AC-1 rated value	240 mm²
operating power	
● at AC-3 at 400 V rated value	132 kW
no-load switching frequency	
● at AC	300 1/h
● at DC	300 1/h
Control circuit/ Control	
type of voltage	AC
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
● at 50 Hz rated value	100 ... 250 V
● at 60 Hz rated value	100 ... 250 V
control supply voltage at DC rated value	100 ... 250 V
operating range factor control supply voltage rated value of magnet coil at DC	
● initial value	0.8
● full-scale value	1.1
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
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
● at 50 Hz	385 VA
● at 60 Hz	385 VA
apparent holding power of magnet coil at AC	
● at 50 Hz	17.5 VA
● at 60 Hz	17.5 VA
closing power of magnet coil at DC	410 W
holding power of magnet coil at DC	4.5 W
closing delay	
● at AC	30 ... 60 ms
● at DC	30 ... 60 ms
opening delay	
● at AC	45 ... 80 ms
● at DC	45 ... 80 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
● attachable	2
● instantaneous contact	2
number of NO contacts for auxiliary contacts	2
● attachable	2
● instantaneous contact	2
operational current at AC-15	
● at 230 V rated value	4 A
● at 400 V rated value	3 A
● at 500 V rated value	2 A
● at 690 V rated value	2 A
operational current at DC-13	
● at 24 V rated value	3 A

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● at 48 V rated value	1.5 A
● at 110 V rated value	0.55 A
● at 125 V rated value	0.55 A
● at 220 V rated value	0.3 A
UL/CSA ratings	
contact rating of auxiliary contacts according to UL	A600 / Q300
Short-circuit protection	
design of the fuse link	
● for short-circuit protection of the main circuit	
— with type of coordination 2 required	gG: 630 A (500 V, 100 kA)
● for short-circuit protection of the auxiliary switch required	gG: 10 A (690 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	For vertical mounting surface can be rotated +/-180°, and with 0° rotation can be tilted forward or backward +/- 30°, or standing
fastening method side-by-side mounting	Yes
fastening method	screw fixing
height	225 mm
width	184 mm
depth	180 mm
required spacing	
● with side-by-side mounting	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
● for grounded parts	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
● for live parts	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
net weight	6.5 kg
Connections/ Terminals	
type of electrical connection	
● for main current circuit	Connection bar
● for auxiliary and control circuit	screw-type terminals
● at contactor for auxiliary contacts	Screw-type terminals
● of magnet coil	Screw-type terminals
connectable conductor cross-section for auxiliary contacts	
● solid or stranded	1 ... 4 mm²
● finely stranded with core end processing	0.75 ... 2.5 mm²
type of connectable conductor cross-sections	
● for auxiliary contacts	
— solid	1x (1 ... 4mm²), 2x (1 ... 4mm²)
— solid or stranded	1x (1 ... 4mm²), 2x (1 ... 4mm²)
— finely stranded with core end processing	1x (0.75 ... 2.5 mm²), 2x (0.75 ... 2.5 mm²)
● for AWG cables for auxiliary contacts	1x (AWG 18 ... 14), 2x (AWG 18 ... 14)
AWG number as coded connectable conductor cross section for auxiliary contacts	18 ... 14
Safety related data	
product function	
● mirror contact according to IEC 60947-4-1	Yes
● positively driven operation according to IEC 60947-5-1	No
Electrical Safety	
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover

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touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover

Communication/ Protocol

product function bus communication	No

Approvals Certificates

Environment	General Product Approval				EMV
Environmental Confirmations	CCC	cULus	EAC	CCC	RCM

Test Certificates	other			Railway
Special Test Certificate	Miscellaneous	Confirmation	产品合格 QC PASS	Special Test Certificate

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=3RT1373-6AP36
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RT1373-6AP36
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1373-6AP36&lang=en
Cax online generator
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1373-6AP36
Characteristic curves
https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod__no>

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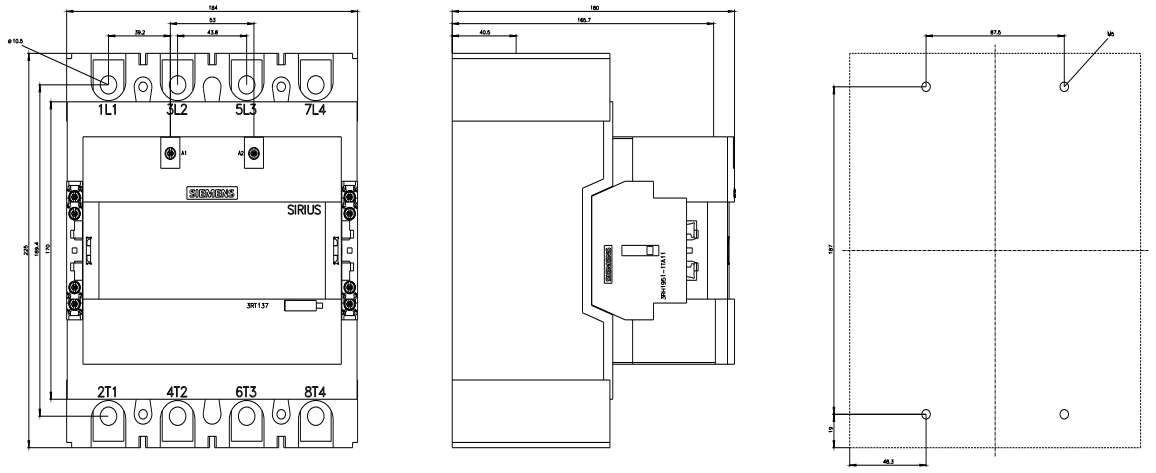

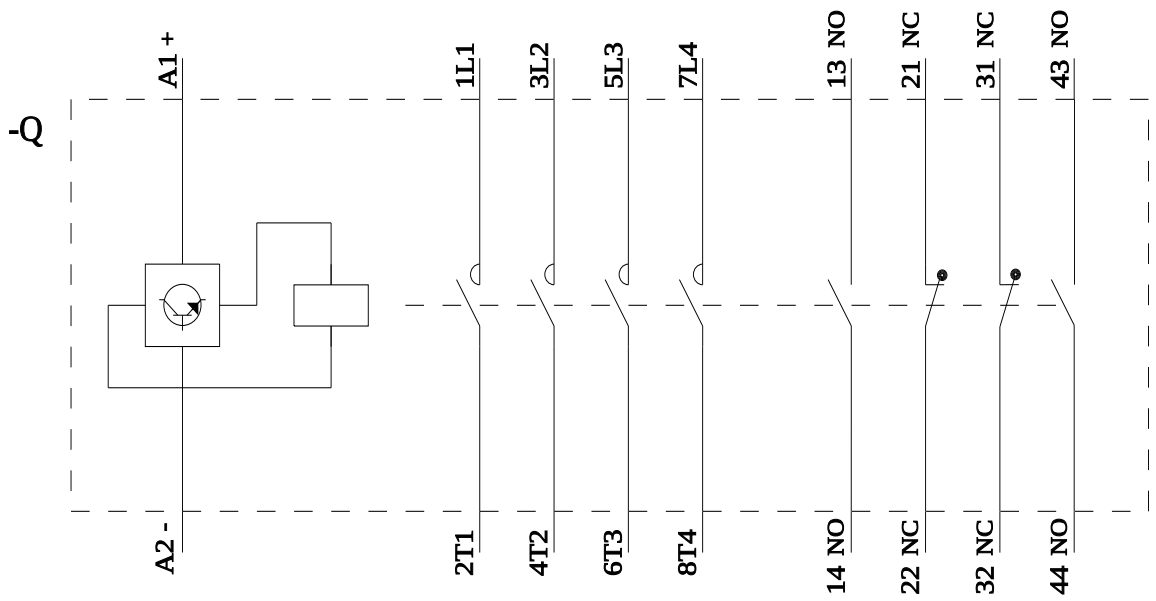

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