SIEMENS

Data sheet 3RT1264-6AR36



vacuum contactor, AC-3 225 A, 110 kW / 400 V AC (50-60 Hz) / DC operation 440-480 V AC/DC, auxiliary contacts 2 NO + 2 NC, 3-pole, frame size S10, busbar connections drive: conventional

product brand name	SIRIUS
product designation	Vacuum contactor
product type designation	3RT12
General technical data	
size of contactor	S10
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 	27 W
 at AC in hot operating state per pole 	9 W
 without load current share typical 	8.2 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	500 V
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 according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 10 ms
mechanical service life (switching cycles)	
of contactor typical	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/01/2012
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

relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
lain circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	1 000 V
at AC-1 at 400 V at ambient temperature 40 °C rated value at AC-1	330 A
— up to 690 V at ambient temperature 40 °C rated value	330 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	300 A
 up to 1000 V at ambient temperature 40 °C rated value 	330 A
— up to 1000 V at ambient temperature 60 °C rated value	300 A
• at AC-3	
— at 400 V rated value	225 A
— at 500 V rated value	225 A
— at 690 V rated value	225 A
— at 1000 V rated value	225 A
• at AC-3e	
— at 400 V rated value	225 A
— at 500 V rated value	225 A
— at 690 V rated value	225 A
— at 1000 V rated value	225 A
at AC-4 at 400 V rated valueat AC-6a	195 A
 up to 230 V for current peak value n=20 rated value 	225 A
 up to 400 V for current peak value n=20 rated value 	225 A
— up to 500 V for current peak value n=20 rated value	225 A
— up to 690 V for current peak value n=20 rated value	225 A
 up to 1000 V for current peak value n=20 rated value at AC-6a 	225 A
— up to 230 V for current peak value n=30 rated value value	209 A
up to 400 V for current peak value n=30 rated value	209 A
up to 500 V for current peak value n=30 rated value	209 A
 up to 690 V for current peak value n=30 rated value 	209 A
— up to 1000 V for current peak value n=30 rated value	209 A
minimum cross-section in main circuit at maximum AC-1 rated value	185 mm ²
operational current for approx. 200000 operating cycles at AC-4	07.4
at 400 V rated valueat 690 V rated value	97 A 97 A
operating power	
• at AC-3	
— at 230 V rated value	55 kW
— at 400 V rated value	110 kW

— at 500 V rated value	160 kW
— at 690 V rated value	200 kW
— at 1000 V rated value	315 kW
• at AC-3e	
— at 230 V rated value	55 kW
— at 400 V rated value	110 kW
— at 500 V rated value	160 kW
— at 690 V rated value	200 kW
— at 1000 V rated value	315 kW
operating power for approx. 200000 operating cycles at AC-4	
 at 400 V rated value 	55 kW
at 690 V rated value	94 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	90 000 kVA
 up to 400 V for current peak value n=20 rated value 	150 000 VA
 up to 500 V for current peak value n=20 rated value 	190 000 VA
 up to 690 V for current peak value n=20 rated value 	260 000 VA
 up to 1000 V for current peak value n=20 rated value 	390 000 VA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	80 000 VA
• up to 400 V for current peak value n=30 rated value	140 000 VA
• up to 500 V for current peak value n=30 rated value	180 000 VA
• up to 690 V for current peak value n=30 rated value	250 000 VA
 up to 1000 V for current peak value n=30 rated value 	360 000 VA
no-load switching frequency	
• at AC	2 000 1/h
● at DC	2 000 1/h
operating frequency	
• at AC-1 maximum	800 1/h
at AC-2 maximum	300 1/h
at AC-3 maximum	750 1/h
at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	AOIDO
at 50 Hz rated value	440 480 V
at 60 Hz rated value	440 480 V
	440 400 V
control supply voltage at DC • rated value	440 480 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	0.8 1.1
● at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
● at 50 Hz	590 VA
● at 60 Hz	590 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.9
• at 60 Hz	0.9
apparent holding power of magnet coil at AC	
• at 50 Hz	6.1 VA
● at 60 Hz	6.1 VA

inductive power factor with the holding power of the coil	
• at 50 Hz	0.0
	0.9
• at 60 Hz	0.9
closing power of magnet coil at DC	700 W
holding power of magnet coil at DC	8.2 W
closing delay	
• at AC	30 95 ms
• at DC	30 95 ms
opening delay	
• at AC	40 80 ms
• at DC	40 80 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
instantaneous contact	
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
at 48 V rated value	6 A
at 60 V rated value	6 A
at 110 V rated value	3 A
at 125 V rated value	2 A
at 123 V rated value at 220 V rated value	1A
at 600 V rated value	0.15 A
operational current at DC-13	0.13 A
• at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
 at 125 V rated value 	0.9 A
• at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	180 A
• at 600 V rated value	192 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
— at 200/208 V rated value	60 hp
— at 220/230 V rated value	75 hp
— at 460/480 V rated value	150 hp
— at 575/600 V rated value	200 hp
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.	aC: 500 A (600 V 100 kA)
— with type of coordination 1 required— with type of assignment 2 required	gG: 500 A (690 V, 100 kA) gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415
for short-circuit protection of the auxiliary switch required.	V, 50 kA) gG: 10 A (500 V, 1 kA)
required	

fastening method	nstallation/ mounting/ dimensions mounting position	+/-22,5° rotation possible on vertical mounting surface; can be tilted
fastening method scide by-side mounting Yes height width 456 mm deight width 456 mm deight width 256 mm required spacing Provided spacing - with side-by-side mounting Provided spacing - Upwards 10 mm - downwards 10 mm - downwards 20 mm - for grounded parts 20 mm - Upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - for live parts 20 mm - for live parts 20 mm - for live parts 10 mm - for live parts 20 mm - for main current circuit 30 mm 30 mm - for auxiliary contacts 20 mm 30 mm - for auxiliary contacts	mounting position	forward and backward by +/- 22.5° on vertical mounting surface;
e side-by-side mounting	fastening method	
Might Migh	_	
width	· · · · · · · · · · · · · · · · · · ·	
Description Properties Pr		
evaluated spacing evaluation side shows side mounting - Convards		
with side-by-side mounting — forwards — upwards — at the side or grounded parts — forwards — forwards or grounded parts — upwards — upwards or grounded parts — upwards — upwards — upwards — upwards — upwards — upwards — to mm — at the side — downwards — forwards — downwards — forwards — upwards	•	200 111111
forwards		
- upwards		20 mm
- downwards		
- at the side	•	
- forwards - upwards - upwards - at the side - downwards • for live parts - forwards - upwards - forwards - forwards - upwards - forwards - upwards - downwards - downwards - downwards - downwards - at the side - downwards - downward		O mm
- upwards		
- at the side - downwards - 10 mm		
• for live parts - forwards - upwards - upwards - downwards - at the side - at the side - for main current circuit - for auxiliary and control circuit - at the side - of magnet coil width of connection bar diameter of holes - at AWG cables for main curces assection - solid or stranded - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - s	·	
• for live parts — forwards — upwards — downwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary and control circuit • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • for main current circuit • for auxiliary and control circuit • for auxiliary contacts • of magnet coil width of connection bar diameter of holes 11 mm number of holes 11 mm number of holes 12/0 500 kcmil connectable conductor cross-sections • at AWG cables for main contacts • solid or stranded • finely stranded with core end processing • solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross-sections • for auxiliary contacts AWG auther as coded connectable conductor cross-sections • for auxiliary contacts AWG number as coded connectable conductor cross-section • for auxiliary contacts AWG number as coded connectable conductor cross-section • for auxiliary contacts For auxiliary contacts AWG number as coded connectable conductor cross-section • for auxiliary contacts For auxiliary c		
forwards	— downwards	10 mm
- upwards - downwards - at the side - at the side - of main current circuit - for main current circuit - at contactor for auxiliary contacts - at AWG cables for main contacts - at Imm -	for live parts	
- downwards — at the side 10 mm 10 m	— forwards	20 mm
Terminals	— upwards	10 mm
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil width of connection bar thickness of connection bar diameter of holes ttppe of connectable conductor cross-sections • at AlVIC cables for main contacts • stranded connectable conductor cross-section for main contacts • stranded connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts — solid — solid or stranded • finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AlVIC cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AlVIC cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AlVIC cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AlVIC cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AlVIC cables for auxiliary contacts AWG number as coded connectable conductor cross-section • for auxiliary contacts AWG number as coded connectable conductor cross-section • for auxiliary contacts - for auxiliary	— downwards	10 mm
type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil width of connection bar connection bar diameter of holes diameter of holes type of connectable conductor cross-sections • at AVIG cables for main contacts • stranded connectable conductor cross-section for main contacts • stranded connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid - solid - solid or stranded with core end processing • at AVIG cables for auxiliary contacts AWG number as coded connectable conductor cross-section • for auxiliary contacts - finely stranded with core end processing • at AVIG cables for auxiliary contacts AWG number as coded connectable conductor cross-section • for auxiliary contacts - for aux	— at the side	10 mm
type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil width of connection bar connection bar diameter of holes diameter of holes type of connectable conductor cross-sections • at AVIG cables for main contacts • stranded connectable conductor cross-section for main contacts • stranded connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid - solid - solid or stranded with core end processing • at AVIG cables for auxiliary contacts AWG number as coded connectable conductor cross-section • for auxiliary contacts - finely stranded with core end processing • at AVIG cables for auxiliary contacts AWG number as coded connectable conductor cross-section • for auxiliary contacts - for aux	Connections/ Terminals	
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width of connection bar25 mmthickness of connection bar6 mmdiameter of holes11 mmnumber of holes1type of connectable conductor cross-sections • at AWG cables for main contacts2/0 500 kcmilconnectable conductor cross-section for main contacts70 240 mm²connectable conductor cross-section for auxiliary contacts5 can make a	-	
thickness of connection bar diameter of holes number of holes 11 mm 1 type of connectable conductor cross-sections • at AWG cables for main contacts • stranded connectable conductor cross-section for main contacts • stranded connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - finely stranded with core end processing • at AWG cables for auxiliary contacts - finely stranded with core end processing • at AWG cables for auxiliary contacts - finely stranded with core end processing • at AWG cables for auxiliary contacts - finely stranded with core end processing • at AWG cables for auxiliary contacts - finely stranded with core end processing • at AWG cables for auxiliary contacts - for auxiliary contacts - the finely stranded with core end processing • at AWG cables for auxiliary contacts - the finely stranded with core end processing • type of connectable conductor cross • type of connectable co		
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type of connectable conductor cross-sections		
type of connectable conductor cross-sections		
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connectable conductor cross-section for auxiliary contacts	contacts	
ontacts		70 240 mm²
• finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts		
type of connectable conductor cross-sections • for auxiliary contacts — solid — solid or stranded — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for auxiliary contacts • for auxiliary contacts 18 14 Safety related data product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 protection class IP on the front according to IEC 60947-60529 Safety related data S	 solid or stranded 	0.5 4 mm²
 for auxiliary contacts — solid — solid or stranded — solid or stranded — finely stranded with core end processing — at AWG cables for auxiliary contacts — solid or stranded with core end processing — tinely stranded with core end processing — at AWG cables for auxiliary contacts — solid or stranded — solid or strandel — solid o	 finely stranded with core end processing 	0.5 2.5 mm²
- solid - solid or stranded - finely stranded with core end processing - at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section - for auxiliary contacts - for auxiliary contacts - for auxiliary contacts -	type of connectable conductor cross-sections	
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— finely stranded with core end processing • at AWG cables for auxiliary contacts 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 • positively driven operation according to IEC 60947-5-1 protection class IP on the front according to IEC 60529 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 1x 12 Yes 18 14	— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)
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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 protection class IP on the front according to IEC 18 14 Yes No IP00; IP20 with box terminal/cover		
● for auxiliary contacts Safety related data product function ● mirror contact according to IEC 60947-4-1 ● positively driven operation according to IEC 60947-5-1 protection class IP on the front according to IEC 60529 18 14 Yes No IP00; IP20 with box terminal/cover	AWG number as coded connectable conductor cross	
product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 protection class IP on the front according to IEC 60529 Yes No IP00; IP20 with box terminal/cover		18 14
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 mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 protection class IP on the front according to IEC 60529 IP00; IP20 with box terminal/cover 		
positively driven operation according to IEC 60947- 5-1 Protection class IP on the front according to IEC 60529 No IP00; IP20 with box terminal/cover	•	v
5-1 protection class IP on the front according to IEC 60529 IP00; IP20 with box terminal/cover		
protection class IP on the front according to IEC 60529 IP00; IP20 with box terminal/cover		No
	protection class IP on the front according to IEC	IP00; IP20 with box terminal/cover
touch protection on the front according to IEC COECO finger and for working a contact from the front with hard-series I/	touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover

suitability for use

safety-related switching OFF

Yes

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



EMC Functional Safety/Safety of Declara Machinery	ion of Conformity Test Certificates
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Type Examination **Certificate**





Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>

Marine / Shipping other











Confirmation

other Railway

Confirmation **Miscellaneous Special Test Certific**ate

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=3RT1264-6AR36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1264-6AR36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1264-6AR36

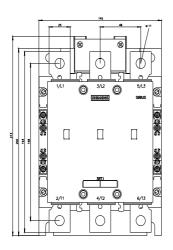
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

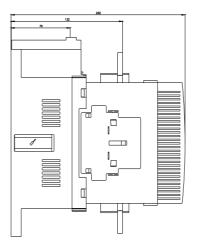
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1264-6AR36&lang=en

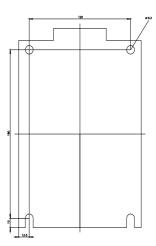
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1264-6AR36/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1264-6AR36&objecttype=14&gridview=view1







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