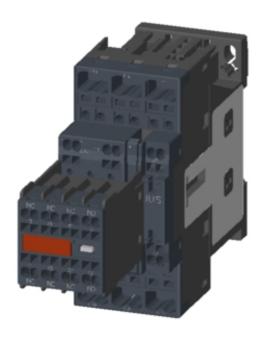
SIEMENS

Product data sheet 3RT2026-2AL24-3MA0



CONTACTOR, AC-3, 11KW/400V, 2NO+2NC, AC 230V 50/60HZ, 3-POLE, SZ S0 SPRING-LOADED TERMINAL PERMANENT AUX. SWITCH FOR SUVA APPLICATIONS

General technical data:		
product brand name		SIRIUS
Size of the contactor		S0
Product extension		
auxiliary switch		No
function module for communication		No
Protection class IP / on the front		IP20
Protection against electrical shock		finger-safe
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
during storage	°C	-55 +80
during operating	°C	-25 +60
Shock resistance		
at rectangular impulse		
• at AC		8,3g / 5 ms, 5,3g / 10 ms
at sine pulse		
• at AC		13,5g / 5 ms, 8,3g / 10 ms
Impulse voltage resistance / rated value	kV	6
Insulation voltage / rated value	V	690

Maximum permissible voltage for protective separation / between coil and main contacts / in accordance with EN 60947-1	V	400
Mechanical operating cycles as operating time		
of the contactor / typical		10,000,000
of the contactor with added auxiliary switch block / typical		10,000,000
 of the contactor with added electronics-compatible auxiliary switch block / typical 		5,000,000

Main circuit:		
Number of NC contacts / for main contacts		0
Number of NO contacts / for main contacts		3
Connectable conductor cross-section / in main circuit		
• at AC-1		
• at 40 °C / minimum permissible	m²	10
• at 60 °C / minimum permissible	m²	10
Operating current		
• at AC-1 / up to 690 V		
• at 40 °C ambient temperature / rated value	Α	35
• at 60 °C ambient temperature / rated value	Α	35
• at AC-2 / at 400 V / rated value	Α	25
• at AC-3		
• at 400 V / rated value	Α	25
• at 500 V / rated value	Α	18
• at 690 V / rated value	Α	13
• at AC-4 / at 400 V / rated value	Α	15.5
Operational current / for ≥ 200000 operating cycles / at AC-4		
• at 400 V / rated value	Α	9
• at 690 V / rated value	Α	9
Operating current		
• with 1 current path / at DC-1		
• at 24 V / rated value	Α	35
• at 110 V / rated value	Α	4.5
• at 220 V / rated value	Α	1
• at 440 V / rated value	Α	0.4
• at 600 V / rated value	Α	0.25
• with 2 current paths in series / at DC-1		
at 24 V / rated value	Α	35
• at 110 V / rated value	Α	35
• at 220 V / rated value	Α	5
• at 440 V / rated value	Α	1
• at 600 V / rated value	Α	0.8

35
35
35
2.9
1.4
20
2.5
1
0.09
0.06
35
15
3
0.27
0.16
35
35
10
0.6
0.6
11
11
11
7.5
4.4
7.7
200
1.6
2

• at AC	1/h	5,000
• at DC	1/h	1,500
Frequency of operation		
• with AC-1 / maximum	1/h	1,000
• with AC-2 / maximum	1/h	750
• with AC-3 / maximum	1/h	750
• with AC-4 / maximum	1/h	250

Control circuit/ Control:		
Voltage type / of control feed voltage		AC
Control supply voltage		
at 50 Hz / at AC / rated value	V	230
at 60 Hz / at AC / rated value	V	230
Operating range factor control supply voltage rated value / of the magnet coil		
• at 50 Hz / for AC		0.8 1.1
• at 60 Hz / for AC		0.85 1.1
Apparent pull-in power / of the solenoid / for AC	V·A	81
Apparent holding power / of the solenoid / for AC	V·A	10.5
Inductive power factor		
with the pull-in power of the coil		0.82
with the pull-in power of the coil		0.25
Closing delay		
• at AC	ms	8 40
Opening delay		
• at AC	ms	4 16
Arcing time	ms	10 10
Residual current / of electronics / for control with signal <0>		
• at 230 V / with AC / maximum permissible	mA	7
• at 24 V / with DC / maximum permissible	mA	16

Auxiliary circuit:		
Contact reliability / of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
Number of NC contacts / for auxiliary contacts / instantaneous switching		2
Number of NO contacts / for auxiliary contacts / instantaneous switching		2
Operating current		
• at AC-12 / maximum	Α	10
• at AC-15		
• at 230 V / rated value	Α	6

• at 400 V / rated value	Α	3
• at 500 V / rated value	Α	2
• at 690 V / rated value	Α	1
Operating current / at DC-12		
• at 24 V / rated value	Α	2
• at 48 V / rated value	Α	3
• at 60 V / rated value	Α	2
at 110 V / rated value	Α	10
at 125 V / rated value	Α	6
at 220 V / rated value	Α	3
at 440 V / rated value	Α	1
at 600 V / rated value	Α	1
Operating current / at DC-13		
at 24 V / rated value	Α	6
at 48 V / rated value	Α	1
• at 60 V / rated value	Α	0.9
at 110 V / rated value	Α	10
at 125 V / rated value	Α	0.3
at 220 V / rated value	Α	6
at 440 V / rated value	Α	0.15
at 600 V / rated value	Α	0.3
UL/CSA ratings:		
yielded mechanical performance [hp]		
for single-phase squirrel cage motors		
• at 110/120 V / rated value	hp	2
• at 230 V / rated value	hp	3
for three-phase squirrel cage motors		
• at 200/208 V / rated value	hp	5
• at 220/230 V / rated value	hp	7.5
• at 460/480 V / rated value	hp	15
• at 575/600 V / rated value	hp	20
Full-load current (FLA) / for 3-phase motor		
• at 480 V / rated value	Α	21
at 600 V / rated value	Α	22
Contact rating designation / for auxiliary contacts / according to UL		A600 / Q600
Short-circuit:		
Design of the fuse link		
• for short-circuit protection of the auxiliary switch / required		fuse gL/gG: 10 A
for short-circuit protection of the main circuit		

• with type of assignment 1 / required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 100 A
• at type of coordination 2 / required	gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE:

Installation/ mounting/ dimensions:			
mounting position		+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface	
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022	
Mounting type / series installation		Yes	
Width	mm	45	
Height	mm	102	
Depth	mm	144	
Distance, to be maintained, to the ranks assembly / sidewards	mm	0	

Connections/ terminals:	
Design of the electrical connection	
for main current circuit	spring-loaded terminals
for auxiliary and control current circuit	spring-loaded terminals
 for main contacts / finely stranded / with conductor end processing 	2x (1 6 mm²)
 for main contacts / finely stranded / without conductor final cutting 	2x (1 6 mm²)
for AWG conductors / for main contacts	2x (18 8)
 for auxiliary contacts / finely stranded / with conductor end processing 	2x (0.5 1.5 mm²)
 for auxiliary contacts / finely stranded / without conductor final cutting 	2x (0.5 1.5 mm²)
 for AWG conductors / for auxiliary contacts 	2x (20 14)

Safety related data:		
B10 value / with high demand rate		
according to SN 31920		1,000,000
T1 value / for proof test interval or service life		
according to IEC 61508	а	20
Proportion of dangerous failures		
• with low demand rate / according to SN 31920	%	40
• with high demand rate / according to SN 31920	%	73
Failure rate [FIT] / with low demand rate		
according to SN 31920	FIT	100
Product function		
mirror contact to IEC 60947-4-1		Yes

No

Certificates/ approvals:

General Product Approval

EMC

Functional Safety / Safety of Machinery

Type Examination











Declaration of Conformity

Test Certificates



Special Test Certificate

Shipping Approval













Shipping Approval

other





Confirmation



Environmental Confirmations

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://mall.industry.siemens.com/

Cax online generator

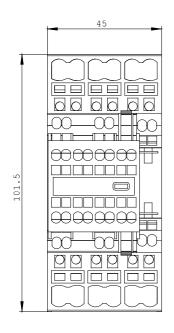
http://www.siemens.com/cax

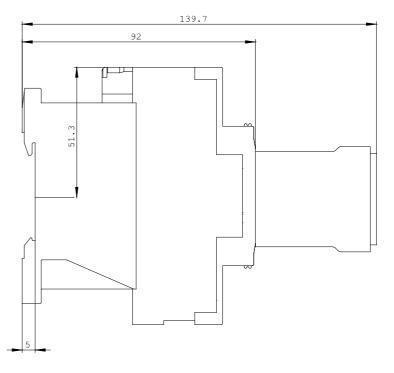
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

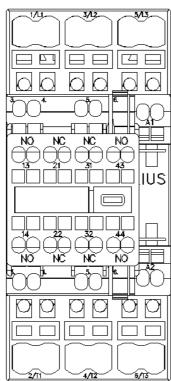
http://support.automation.siemens.com/WW/view/en/3RT2026-2AL24-3MA0/all

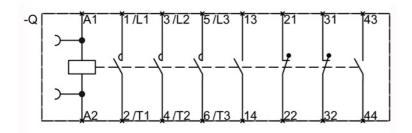
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ ...)$

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT2026-2AL24-3MA0}}$









last change: Aug 4, 2014