

Combination starter Nonreversing DIN/panel mount, IEC SIRIUS
 Frame size S3,36 - 50A 24VDC control voltage MSP aux-1 SPDT
 NO/NC Contactor auxiliary -1NO Front mount

Product brand name	SIRIUS
Product designation	non-fused motor starter
Design of the product	direct starter
Manufacturer's article number	
<ul style="list-style-type: none"> • of the supplied contactor 	3RT1044-1BB40
<ul style="list-style-type: none"> • of the supplied circuit-breakers 	3RV1041-4HA15
<ul style="list-style-type: none"> • of the supplied link module 	3RA1941-1BA00
<ul style="list-style-type: none"> • of the supplied standard mounting rail adapter 	3RA1942-1AA00

General technical data

Size of the circuit-breaker	S3
Size of load feeder	S3
Product extension	
<ul style="list-style-type: none"> • Auxiliary switch 	Yes
Insulation voltage	
<ul style="list-style-type: none"> • with degree of pollution 3 rated value 	690 V
Degree of pollution	3
Surge voltage resistance rated value	6 kV
Protection class IP	
<ul style="list-style-type: none"> • on the front 	IP20
<ul style="list-style-type: none"> • of the terminal 	IP00
Shock resistance	
<ul style="list-style-type: none"> • acc. to IEC 60068-2-27 	6g / 11 ms
Mechanical service life (switching cycles)	
<ul style="list-style-type: none"> • of contactor typical 	10 000 000
Type of assignment	1
Protection against electrical shock	finger-safe

Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation 	-20 ... +60 °C
<ul style="list-style-type: none"> • during storage 	-50 ... +80 °C
<ul style="list-style-type: none"> • during transport 	-55 ... +80 °C

Main circuit

Number of poles for main current circuit	3
Design of the switching contact	electromechanical

Adjustable pick-up value current of the current-dependent overload release	36 ... 50 A
Operating voltage	
• rated value	690 V
• at AC-3 rated value maximum	690 V
Operating frequency rated value	50 ... 60 Hz
Operating current	
• at AC-3	
— at 400 V rated value	41 A
Operating power	
• at AC-3	
— at 400 V rated value	22 000 W

Control circuit/ Control

Control supply voltage at DC	
• rated value	24 V
Holding power of magnet coil at DC	15 W

Auxiliary circuit

Number of NC contacts	
• for auxiliary contacts	1
Number of NO contacts	
• for auxiliary contacts	1

Protective and monitoring functions

Trip class	CLASS 10
Design of the overload release	thermal (bimetallic)
Response value current	
• of instantaneous short-circuit trip unit	650 A

UL/CSA ratings

Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	50 A
• at 600 V rated value	50 A
Yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	5 hp
— at 230 V rated value	10 hp
• for three-phase AC motor	
— at 200/208 V rated value	15 hp
— at 220/230 V rated value	20 hp
— at 460/480 V rated value	40 hp
— at 575/600 V rated value	50 hp

Short-circuit protection

Product function Short circuit protection	Yes
Design of the short-circuit trip	magnetic
Conditional short-circuit current (I_q)	
<ul style="list-style-type: none"> • at 400 V acc. to IEC 60947-4-1 rated value 	50 000 A

Installation/ mounting/ dimensions

Mounting position	vertical
Mounting type	snap-on fastening on 35 mm standard rail
Height	330 mm
Width	70 mm
Depth	220 mm
Required spacing	
<ul style="list-style-type: none"> • for grounded parts <ul style="list-style-type: none"> — forwards — Backwards — upwards — at the side — downwards • for live parts <ul style="list-style-type: none"> — forwards — Backwards — upwards — downwards — at the side 	10 mm 0 mm 90 mm 12 mm 10 mm 10 mm 0 mm 90 mm 10 mm 12 mm

Connections/Terminals

Type of electrical connection	
<ul style="list-style-type: none"> • for main current circuit 	screw-type terminals
Type of connectable conductor cross-sections	
<ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> — stranded • at AWG conductors for main contacts 	2.5 ... 70 mm ² , 2x (10 ... 50 mm ²) 1x (10 ... 2/0), 2x (10 ... 1/0)
Connectable conductor cross-section for main contacts	
<ul style="list-style-type: none"> • finely stranded with core end processing 	2.5 ... 50 mm ²

Safety related data

B10 value	
<ul style="list-style-type: none"> • with high demand rate acc. to SN 31920 	1 000 000
Proportion of dangerous failures	
<ul style="list-style-type: none"> • with high demand rate acc. to SN 31920 	73 %

Certificates/approvals

General Product Approval	Declaration of Conformity	Marine / Shipping
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Marine / Shipping	other
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[Confirmation](#)

Further information

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

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mfb=3RA1145-4HB44-1BB4>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RA1145-4HB44-1BB4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA1145-4HB44-1BB4>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RA1145-4HB44-1BB4&lang=en

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