

Combination starter Nonreversing DIN/panel mount, IEC SIRIUS
 Frame size S3,80 - 100A 120VAC control voltage MSP aux-none
 Contactor auxiliary -1NO Front mount



Figure similar

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 • of the supplied circuit-breakers • of the supplied link module • of the supplied standard mounting rail adapter 	<ul style="list-style-type: none"> 3RT1046-1AK60 3RV1041-4MA10 3RA1941-1AA00 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 • of the terminal 	IP20 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	2
Protection against electrical shock	finger-safe

Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage • during transport 	-20 ... +60 °C -50 ... +80 °C -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	80 ... 100 A
Operating voltage	
<ul style="list-style-type: none"> • rated value • at AC-3 rated value maximum 	690 V 690 V
Operating frequency rated value	50 ... 60 Hz
Operating current	
<ul style="list-style-type: none"> • at AC-3 — at 400 V rated value 	80 A
Operating power	
<ul style="list-style-type: none"> • at AC-3 — at 400 V rated value 	45 000 W

Control circuit/ Control

Control supply voltage at AC	
<ul style="list-style-type: none"> • at 50 Hz rated value • at 50 Hz rated value • at 60 Hz rated value • at 60 Hz rated value 	110 V 88 ... 121 V 120 V 96 ... 132 V
Apparent holding power of magnet coil at AC	21 V·A
Inductive power factor with the holding power of the coil	0.29

Auxiliary circuit

Number of NC contacts	
<ul style="list-style-type: none"> • for auxiliary contacts 	0

Number of NO contacts	
• for auxiliary contacts	0
Protective and monitoring functions	
Trip class	CLASS 10
Design of the overload release	thermal (bimetallic)
Response value current	
• of instantaneous short-circuit trip unit	1 300 A
UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	95 A
• at 600 V rated value	95 A
Yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	10 hp
— at 230 V rated value	20 hp
• for three-phase AC motor	
— at 200/208 V rated value	30 hp
— at 220/230 V rated value	30 hp
— at 460/480 V rated value	75 hp
— at 575/600 V rated value	100 hp
Short-circuit protection	
Product function Short circuit protection	Yes
Design of the short-circuit trip	magnetic
Conditional short-circuit current (I_q)	
• 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	197 mm
Required spacing	
• for grounded parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	90 mm
— at the side	12 mm
— downwards	10 mm
• for live parts	
— forwards	0 mm

— Backwards	0 mm
— upwards	90 mm
— downwards	10 mm
— at the side	12 mm







Connections/Terminals

Type of electrical connection	
• for main current circuit	screw-type terminals
Type of connectable conductor cross-sections	
• for main contacts	
— stranded	2.5 ... 70 mm ² , 2x (10 ... 50 mm ²)
• at AWG conductors for main contacts	1x (10 ... 2/0), 2x (10 ... 1/0)
Connectable conductor cross-section for main contacts	
• finely stranded with core end processing	2.5 ... 50 mm ²

Safety related data

B10 value	
• with high demand rate acc. to SN 31920	1 000 000
Proportion of dangerous failures	
• with high demand rate acc. to SN 31920	73 %

Certificates/approvals

General Product Approval	Declaration of Conformity	Marine / Shipping
 UL	 EAC	 EG-Konf.
	 LRS	 RMRS
		 DNV-GL DNVGL.COM/AF

other

[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?mlfb=3RA1140-4MB46-0AK6>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA1140-4MB46-0AK6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA1140-4MB46-0AK6>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA1140-4MB46-0AK6&lang=en

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