SIEMENS

Data sheet 3RA2140-4MB47-0AK6

	COMBO NONRV STR PNL MTD S3 80-1 COMBO NONRV STR PNL MTD S3 80-1
product brand name	SIRIUS
product designation	non-fused motor starter 3RA2
design of the product	direct starter
manufacturer's article number	
● of the supplied contactor	3RT2047-1AK60
● of the supplied circuit-breakers	3RV2041-4MA10
● of the supplied link module	3RA2942-1AA00
General technical data	
size of the circuit-breaker	S3
size of load feeder	S3
product extension auxiliary switch	Yes
insulation voltage with degree of pollution 3 at AC rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	6.7 g / 5 ms
mechanical service life (operating cycles) of contactor typical	10 000 000
type of coordination	2
Net Weight	4.77 kg
Ambient conditions	
ambient temperature	
● during operation	-20 ... +60 °C
● during storage	-50 ... +80 °C
● during transport	-55 ... +80 °C
Main circuit	
number of poles for main current circuit	3
design of the switching contact	electromechanical
adjustable current response value current of the current-dependent overload release	80 ... 100 A
operating voltage	
● rated value	690 V
● at AC-3 rated value maximum	690 V
operating frequency rated value	50 ... 60 Hz
operational current at AC-3 at 400 V rated value	100 A
operating power at AC-3	
● at 400 V rated value	45 kW
Control circuit/ Control	
control supply voltage at AC	
● at 50 Hz rated value	110 V
● at 50 Hz rated value	88 ... 121 V
● at 60 Hz rated value	120 V
● at 60 Hz rated value	96 ... 132 V
apparent holding power of magnet coil at AC	22 V·A
inductive power factor with the holding power of the coil	0.4
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)

Subject to change without notice
© Copyright Siemens

response value current of instantaneous short-circuit trip unit	1 300 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
● at 480 V rated value	96 A
● at 600 V rated value	99 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 3-phase AC motor	
— at 200/208 V rated value	30 hp
— at 220/230 V rated value	40 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 (Iq)	
● at 400 V according to IEC 60947-4-1 rated value	65 000 A
Installation/ mounting/ dimensions	
mounting position	vertical
fastening method	Snap-mounted to DIN rail or screw-mounted with additional push-in lug
height	332 mm
width	70 mm
depth	200 mm
required spacing	
● for grounded parts	
— forwards	32 mm
— backwards	0 mm
— upwards	50 mm
— at the side	10 mm
— downwards	10 mm
● for live parts	
— forwards	32 mm
— backwards	0 mm
— upwards	50 mm
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection for main current circuit	screw-type terminals
type of connectable conductor cross-sections for main contacts stranded	10 ... 70 mm², 2x (2.5 ... 50 mm²)
connectable conductor cross-section for main contacts finely stranded with core end processing	1 ... 35 mm²
Safety related data	
proportion of dangerous failures with high demand rate according to SN 31920	73 %
B10 value with high demand rate according to SN 31920	1 000 000
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Approvals Certificates	

Environment	General Product Approval				For use in hazard-ous locations
Environmental Con-firmations	UL	EAC	EG-Konf.	UKCA	ATEX

Subject to change without notice
© Copyright Siemens

For use in hazard-ous locations	Maritime application	other
EG-Konf. DNV LRS PRS RINA		Confirmation

other	Dangerous goods
Confirmation 产品合格 QC PASS	Transport Information

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=3RA2140-4MB47-0AK6
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RA2140-4MB47-0AK6
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2140-4MB47-0AK6&lang=en
Cax online generator
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2140-4MB47-0AK6
Kennlinien
https://curves.simaris.siemens.com/curves/3RA2140-4MB47-0AK6

last modified: 4/4/2026

Subject to change without notice
© Copyright Siemens