

SIEMENS

Low-Voltage Controls & Protection Technology

3RV2021-4DA10

SIRIUS 3RV2 Motor Starter Protector

Circuit Breaker for Motor Protection — Size S0, CLASS 10

The Siemens 3RV2021-4DA10 is a three-pole SIRIUS 3RV2 circuit breaker for motor protection. It provides adjustable thermal overload protection from 18 to 25 A and an instantaneous short-circuit release at 325 A. The device uses screw terminals and the standard switching-capacity version.

Product lifecycle	PM300 — Active Product
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Technical Specifications

Parameter	Specification
Article number (MLFB)	3RV2021-4DA10
Product family	SIRIUS 3RV2 motor starter protectors
Device type	Circuit breaker for motor protection
Frame size	S0
Main poles	3
Trip class	CLASS 10
Adjustable overload release	18 ... 25 A
Instantaneous short-circuit release	325 A
Main circuit	AC
Rated operating voltage	20 ... 690 V AC
Rated insulation voltage Ui	690 V
Rated impulse withstand voltage Uimp	6 kV
Connection	Screw terminal
Switching capacity	Standard switching capacity
Auxiliary switch extension	Yes
Contactor combinations	S00 and S0 contactor sizes, subject to Siemens coordination tables
Power loss, hot operating state	10.5 W total; approx. 3.5 W per pole
Mechanical endurance, main contacts	Typical 100,000 operating cycles
Mechanical endurance, auxiliary contacts	Typical 100,000 operating cycles
Electrical endurance	Typical 100,000 operating cycles
Shock resistance	25 g / 11 ms, IEC 60068-2-27
Ambient temperature, operation	−20 ... +60 °C
Ambient temperature, storage	−50 ... +80 °C
Ambient temperature, transport	−50 ... +80 °C
Relative humidity, operation	10 ... 95 %
Maximum installation altitude	2,000 m above sea level
Net weight	Approx. 0.370 kg
EAN	4011209712546
UPC	662643924428

Parameter	Specification
Commodity code	85362010
Country of origin	Germany
RoHS	Compliant since 01 Oct 2009
Approvals	CCC, EU Declaration of Conformity, UK Declaration of Conformity, KC

Functional Principle

The 3RV2 combines thermal overload protection and instantaneous magnetic short-circuit protection in one compact motor-protection device. The thermal release responds to sustained overcurrent and protects the motor against overheating. The magnetic release responds rapidly to high fault currents and disconnects the circuit. When used with a compatible SIRIUS contactor, the device forms the protection section of a conventional motor starter.

Application & Selection Notes

Set the adjustable overload release within 18–25 A according to the motor rated current and the applicable Siemens coordination table. The 325 A instantaneous release is a short-circuit threshold and must not be treated as the normal motor-current setting. For a complete starter, verify the selected contactor, short-circuit coordination type, prospective fault current, conductor sizing and local installation requirements.

Product Identification

Brand: Siemens SIRIUS
Series: 3RV2
Article number: 3RV2021-4DA10
Device: Motor protection circuit breaker
Frame: S0
Overload range: 18–25 A
Trip class: CLASS 10
Connection: Screw terminal

Primary Siemens References

[Siemens Industry Mall — 3RV2021-4DA10](#)
[Siemens Official Data Sheet — 3RV2021-4DA10](#)
[Siemens Product Data / Industry Mall](#)

Document note: This is an independently compiled English technical datasheet based on Siemens official product data. It is not a Siemens-issued publication. Specifications may change with product revision or catalog update; Siemens documentation is the controlling reference for procurement, engineering and compliance.