Product Research Report: Siemens SIRIUS 3RT1034-1AL20 Contactor

1. Product Name

Siemens SIRIUS 3RT1034-1AL20

2. SEO Keywords

- Siemens 3RT1034-1AL20 contactor
- SIRIUS 3RT1 S2 contactor 32A
- Siemens 240V AC contactor
- 3-pole IEC contactor 15kW
- Siemens motor contactor S2
- 3RT1034 contactor datasheet
- Siemens industrial contactor 40A AC-1
- 3RT1 series power contactor S2

3. Category

[new] Contactor → Siemens → SIRIUS 3RT1

4. Product Introduction

Series#: Contactor → Siemens → SIRIUS 3RT1
- Siemens SIRIUS 3RT1034-1AL20 Contactor
- We have large inventory for Siemens SIRIUS 3RT1 Contactors, 3RT10 contactors and related accessories.
- 100% Original and new,In stock by Eaton Company.
- Delivery time: Ready in stock and 1 days for ship out
- MOQ: 1pcs

5. Brand & Model

model：3RT1034-1AL20
brand：Siemens

6. Service & Applications

The Siemens SIRIUS 3RT1034-1AL20 is a 3-pole power contactor from the SIRIUS 3RT1 series, size S2 frame. It delivers a rated operational current of 32 A at 400 V AC-3 (15 kW motor power) and 18 A at 690 V. The coil operates at 240 V AC 50/60 Hz with an inrush power of approximately 120 VA and holding power of 12 VA. It features 1 NO built-in auxiliary contact with screw terminals and supports DIN rail or screw mounting. Mechanical endurance reaches 15 million cycles, while electrical endurance is approximately 10 million switching cycles at rated current. Pick-up time is 20–40 ms and drop-out time is 70–120 ms. Typical applications include motor starting and control for conveyors, pumps, fans, compressors, HVAC systems, machine tools, and general industrial automation where reliable switching of 3-phase motors up to 15 kW is required. Dimensions are approximately 115 × 55 × 115 mm, weight 0.80 kg. IP20 finger-safe protection and compliance with IEC 60947-4-1, EN 60947-4-1, UL 508, and CSA C22.2 No. 14 standards.

7. Specifications Table

Feature	Specification
Product Series	SIRIUS 3RT1
Size	S2
Number of Poles	3 (NO main contacts)
Rated Operational Current (AC-3, 400 V)	32 A
Rated Operational Current (AC-3, 690 V)	18 A
Rated Operational Current (AC-1)	40 A
Rated Operational Power (AC-3, 400 V)	15 kW (20 HP)
Motor Power @ 230 V (AC-3)	11 kW
Motor Power @ 500 V (AC-3)	18.5 kW
Motor Power @ 690 V (AC-3)	18.5 kW
Rated Operational Current (AC-4, 400 V)	12 A
Coil Voltage (Us)	240 V AC, 50/60 Hz
Voltage Range (Pick-up)	0.8 to 1.1 × Us
Voltage Range (Drop-out)	0.1 to 0.75 × Us
Inrush Power	~120 VA
Holding Power	~12 VA
Auxiliary Contacts	1 NO (built-in)
Pick-up Time	20–40 ms
Drop-out Time	70–120 ms
Contact Bounce Time	Max. 2.7 ms
Connection Type	Screw terminals (main & auxiliary)
Degree of Protection	IP20 (finger-safe)
Mechanical Life	15 million switching cycles
Electrical Life (AC-3, at 32 A)	~10 million switching cycles
Electrical Life (AC-3, max rating)	~1.3 million switching cycles
Operating Temperature	-25°C to +60°C
Mounting	DIN Rail (35 mm) or screw mounting
Dimensions (H × W × D)	~115 × 55 × 115 mm
Weight	~0.80 kg
Compatible Overload Relay	Siemens 3RU11 (thermal)
Standards	IEC 60947-4-1, EN 60947-4-1, UL 508, CSA C22.2 No. 14

8. FAQ

Q: What is the coil voltage of the 3RT1034-1AL20?
A: 240 V AC, 50/60 Hz. The "AL20" in the part number indicates a 200–277 V AC 50/60 Hz coil range.

Q: What is the maximum motor power this contactor can switch?
A: 15 kW (20 HP) at 400 V AC-3, and up to 18.5 kW at 500 V and 690 V AC-3.

Q: What size frame is the 3RT1034-1AL20?
A: Size S2, with approximate dimensions of 115 × 55 × 115 mm and a weight of 0.80 kg.

Q: How many auxiliary contacts does this model include?
A: 1 normally open (NO) auxiliary contact built-in. Additional auxiliary blocks (3RH19 side-mounting) can be added.

Q: What is the mechanical vs electrical lifespan?
A: Mechanical endurance is 15 million cycles. Electrical endurance at 32 A AC-3 is approximately 10 million switching cycles; at maximum rating it drops to approximately 1.3 million cycles.

Q: What overload relay should I pair with this contactor?
A: Siemens 3RU11 thermal overload relays are the direct match. For electronic protection, the 3RB series is also compatible.

Q: Can this contactor be DIN rail mounted?
A: Yes, it supports both standard 35 mm DIN rail mounting and direct screw panel mounting.

Q: What international certifications does this contactor hold?
A: IEC 60947-4-1, EN 60947-4-1, UL 508, and CSA C22.2 No. 14.