

1 Phase 10A AC Electronic Contactor



- * Rated operational voltage up to 230VAC 50/60 Hz
- * Rated operational current up to:
10A AC-1
- * Compact modular design only 22,5 mm
- * Control voltage range: 5-24 V DC
- * LED Status indication
- * IP-20 Protection
- * Meets EN 60947-4-3 requirements
- * Requires no additional components
- * Built-In varistor protection

Product Description and Item Selection

Electronic Contactor designed for control of various industrial loads, e.g. heating elements, in single phase applications	Line Voltage	Control Voltage	Item No. 10A
	24 - 240VAC 50/60 Hz	5 - 24VDC	SC 1 DD 2310

Output Specifications	SC1 DD 2310
Operational current AC-1 (AC-51 Resistive and slightly inductive after EN60947-4-3)	10A max.
Operational current AC-1 (AC-55a Discharge lamps after EN60947-4-3)	2A max.
Operational current AC-1 (AC-56a Transformers after EN60947-4-3)	3A max.
Leakage current	1 mA AC max.
Minimum operational current	10 mA AC
Load integral Max I ² t	180 A ² s
Duty cycle	Continuous operation

Current Derating	Amb. Temperature	SC 1 DD 2310
Current derating in high temperature applications For operation in ambient temperatures exceeding 40 °C at the AC-1 Load the current must be derated as shown in the table	40°C	10A
	50°C	10A
	60°C	8A

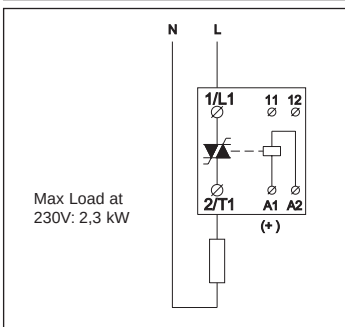
The manufacturer of the cabinets can normally provide the necessary data for the cabinet and guidelines for calculating the max. acceptable internal power dissipation.

Control Specifications	SC 1 DD 2310
Control Voltage range	5 - 24 V DC
Pick-up voltage max.	4.25 V DC
Drop out voltage min.	1.5 V DC
Control current / power max.	10 mA @ 24 V DC
Max. control voltage	32 V DC
Response time max.	1/2 cycle

Specifications are subject to change without notice

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Wiring Diagram

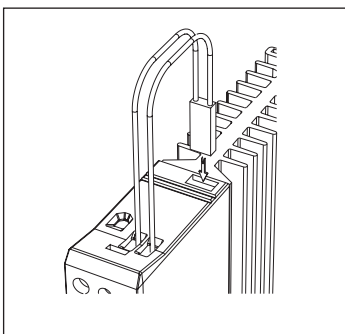


Main terminal 1/L1 & 2/T1
Control terminals A1-A2.
Terminal 11 and 12 have
no connection with the
internal circuit, but are
intended for connection to
the optional thermal over-
load protection.

Thermal Specifications

Power dissipation for continuous operation PD _{max} .	1,3 W/A
Power dissipation for intermittent operation PD	1.3 W/ A dutycycle
Cooling method	Natural convection
Mounting	Vertical +/-30°
Operating temperature range EN60947-4-3	-5C° to 40°C
Storage temperature EN60947-4-3	-20C° to 80°C
Max. operating temperature with current derating according to table	60°C

Thermal Overload Protection



Optional thermal overload
protection is possible by
inserting a thermostat in
the slot on the right hand
side of the contactor.
Type number UP62-90

Insulation Specifications

Rated insulation voltage	Ui 660 V
Rated impulse withstand voltage	Uimp. 4 kV
Installation category	III

EMC

This component meets the requirements of the product standard EN60947-4-3 and is CE marked according to this standard.

Environment

Degree of protection	IP 20	Pollution degree	3
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Short-circuit co-ordination According to EN60947-4-3

See below

Contactor Type	Co-ordination Type 1	Co-ordination Type 2	
	Operating Class	Ferraz	Siemens
SC 1 DD 2310	16A gL / gG	660gRB 10-30	5SD4 30 500 V Max.

This product has been designed for class A equipment. Use of the product in domestic environments may cause radio interference, in which case the user may be required to employ additional mitigation methods.