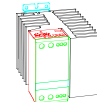
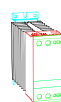


Dual AC Semiconductor Contactor



- * Rated operational voltage up to 600VAC 50/60 Hz
- * Rated operational current up to 30 or 50 A AC-1 (accumulated)
- * Compact modular design 45 or 90 mm
- * Control voltage range: 5-24 V DC or 24-230 V AC/DC
- * LED Status indication
- * IP-20 Protection
- * Meets IEC 947-4-3 / EN 60947-4-3 requirements
- * Requires no additional components
- * Built-in varistor protection



Product Description and Item Selection

Two independent single semiconductor contactors designed to switch various industrial loads, heating elements, motors and lamps in 1 or 3 phase applications. Unique electronic and thermal design ensures high switching capacity and long lifetime. Zero Voltage turn-On reduces RFI

Line Voltage	Control Voltage	Item No. 30 A	Item No. 50 A
24 - 240 VAC 50/60 Hz	5 - 24 V DC	SC 2 DD 2330	SC 2 DD 2350
24 - 240 VAC 50/60 Hz	24 - 230 V AC/DC	SC 2 DA 2330	SC 2 DA 2350
24 - 480 VAC 50/60 Hz	5 - 24 V DC	SC 2 DD 4030	SC 2 DD 4050
24 - 480 VAC 50/60 Hz	24 - 230 V AC/DC	SC 2 DA 4030	SC 2 DA 4050
48 - 600 VAC 50/60 Hz	5 - 24 V DC	SC 2 DD 6030	SC 2 DD 6050
48 - 600 VAC 50/60 Hz	24 - 230 V AC/DC	SC 2 DA 6030	SC 2 DA 6050

Output Specifications

	SC2DX / 30 A	SC2DX / 50 A
Operational current AC-1 (e.g. 1 x30 A or 50 A or 2 x 15 A or 25 A)	30 A max. (accumulated)	50 A max. (accumulated)
Operational current AC-3 (e.g. 2 x 15 A)	15 A max. (accumulated)	15 A max. (accumulated)
Leakage current	1 mA AC max.	1 mA AC max.
Minimum operational current	10 mA AC	10 mA AC
Duty cycle	Continuous operation	

Current Derating

Amb. Temperature	SC2DX / 30 A	SC2DX / 50 A
40°C	30.0 A	50.0 A
50°C	25.0 A	40.0 A
60°C	20.0 A	30.0 A

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

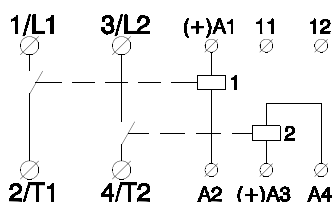
The manufacturer of the cabinets can normally provide the necessary data for the cabinet and guidelines for calculating the max. acceptable internal power dissipation.

Control Specifications	SC2 DD XXXX	SC2 DA XXXX
Control Voltage range	5 - 24 V DC	24 - 230 V AC/DC
Pick-up voltage max.	4.25 V DC	20.4 V AC/DC
Drop out voltage min.	1.5 V DC	7.2 V AC/DC
Control current / power max.	15 mA @ 4 V DC	1.5VA/6mA @ 24 V DC
Max. control voltage	32 V DC	253 V AC/DC
Response time max.	1/2 cycle	1 cycle

Specifications are subject to change without notice

Dual AC Semiconductor Contactor

Wiring Diagram

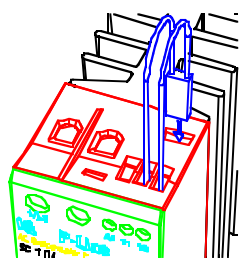


Main terminal 1/L1-2/T1 & 3/L2-4/T2. Control terminals A1-A4. Terminal 11 and 12 have no connection with the internal circuit but are intended for connection to the optional thermal overload protection. See application information for further details page 49

Thermal Specifications

Power dissipation for continuous operation PD _{max} .	1.2 W/A (accumulated)
Power dissipation for intermittent operation PD	1.2 W/A dutycycle
Cooling method.	Natural convection
Mounting	Vertical +/-30°
Operating temperature range IEC 158-2	-5°C° to 40°C°
Storage temperature IEC 158-2	-20°C° to 80°C°
Max. operating temperature with AC-1 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 Soft starter.
Type number UP62-100

See application hints for further details page 49

Insulation Specifications

Rated insulation voltage	U _i 660 V
Rated impulse withstand voltage	U _{imp} 4 kV
Installation category	III

EMC

This component meets the requirements of the product standard IEC 158-2/HD419.2-S1 / IEC 947-4-3 / EN 60947-4-3 and is CE marked according to this standard.

Short-circuit co-ordination According to IEC 947-4-3

See page 49

Contactor Type	Co-ordination Type 1	Co-ordination Type 2	
	Max fuse / Operating Class	Ferraz	Siemens
SC2DX 2330 / 4030 / 6030	50 A gL / gG	660 RB 10-30	5SD4 50 500 V Max.
SC2DX 2350 / 4050 / 6050	50 A gL / gG	6.621CPURGA 22x58/50	5SD4 60 500 V Max.

Environment

Degree of protection / Pollution degree IP 20 / 3

Cable Wiring Information

See page 57

Approvals

CAN/CSA-C22.2 / UL Std No. 508

Dimension and Mounting Instruction

See page 57

Applications Information

See page 49

Overload Protection

See page 49

* 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.