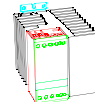
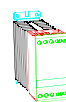


# 3 Phase AC Semiconductor Contactor



- \* Rated operational voltage up to 600VAC 50/60 Hz
- \* Rated operational current up to:  
3 x 10 or 3 x 20 A AC-1
- \* 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

3 Phase semiconductor contactor designed to switch various industrial loads, e.g. heating elements, motors and lamps in 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. 10 A	Item No. 20 A
24 - 240 VAC 50/60 Hz	5 - 24 V DC	SC 3 DD 2310	SC 3 DD 2320
24 - 240 VAC 50/60 Hz	24 - 230 V AC/DC	SC 3 DA 2310	SC 3 DA 2320
24 - 480 VAC 50/60 Hz	5 - 24 V DC	SC 3 DD 4010	SC 3 DD 4020
24 - 480 VAC 50/60 Hz	24 - 230 V AC/DC	SC 3 DA 4010	SC 3 DA 4020
48 - 600 VAC 50/60 Hz	5 - 24 V DC	SC 3 DD 6010	SC 3 DD 6020
48 - 600 VAC 50/60 Hz	24 - 230 V AC/DC	SC 3 DA 6010	SC 3 DA 6020

## Output Specifications

	SC3DX / 10 A	SC3DX / 20 A
Operational current AC-1	10 A max.	20 A max.
Operational current AC-3	10 A max.	10 A max.
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

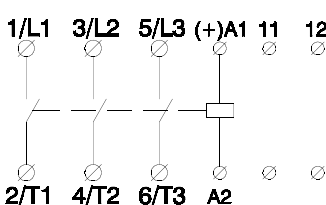
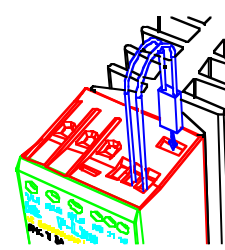
Amb. Temperature	SC3DX / 10 A	SC3DX / 20 A
40°C	10.0 A AC-1 / AC-3	20.0 A AC-1
50°C	8.0 A AC-1 / AC-3	16.0 A AC-1
60°C	6.5 A AC-1 / AC-3	13.0 A AC-1

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	SC3 DD XXXX	SC3 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

# 3 Phase AC Semiconductor Contactor

Wiring Diagram		Thermal Specifications	
		<p>Main terminal 1/L1-2/T1&amp; 3/L2-4/T2&amp;5/L3-6/T3. Control terminals A1-A2. 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 see 49</p>	
Thermal Overload Protection		Insulation Specifications	
		<p>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</p> <p>See application hints for further details page 49</p>	
Short-circuit co-ordination According to IEC 947-4-3		EMC	
See page 49		<p>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.</p>	
Contactor Type		Co-ordination Type 1	
Co-ordination Type 2		Operating Class	
SC3DX 2310 / 4010 / 6010		50 A gL / gG	
SC3DX 2320 / 4020 / 6020		50 A gL / gG	
Environment		Cable Wiring Information	
Degree of protection / Pollution degree		IP 20 / 3	
Approvals		Dimension and Mounting Instruction	
CAN/CSA-C22.2 / UL Std No. 508		See page 57	
Applications Information		Overload Protection	
See page 49		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.			