AC Semiconductor Reversing Contactor



- * Rated operational voltage up to 480 VAC
- * Rated operational current up to: 10A AC-3
- * Compact modular design 45 mm
- * Two independent potential free control inputs with mutual interlock
- * Control voltage ranges from 5-24 V DC or 24-230 V AC/DC
- * LED Status indication
- * IP-20 Protection
- * Meets IEC 947-4-2 / EN 60947-4-2 requirements
- * Requires only 45 mm DIN rail space



Product Description and Item Selection

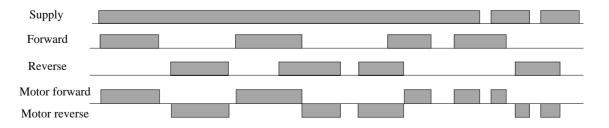
3 Phase semiconductor revers-
ing contactor designed to
switch 3 phase motors forward
and reverse.
Unique electronic and thermal
design ensures high switching
capacity and long lifetime.
Zero Voltage turn-On reduces
RFI

Line Voltage	Control Voltage	Motor Load	Item No.
208-240 VAC 50/60Hz	5 - 24 V DC	3.0 HP	SRC 3 DD 4010
208-240 VAC 50/60Hz	24 - 230 V AC/DC	3.0 HP	SRC 3 DA 4010
400-480 VAC 50/60Hz	5 - 24 V DC	5.5 HP	SRC 3 DD 4010
400-480 VAC 50/60Hz	24 - 230 V AC/DC	5.5 HP	SRC 3 DA 4010

Output Specifications	SRC3DX 4010	
Operational current AC-3 max.	10 A	
Operational current AC-4 max.	8 A	
Leakage current	1 mA AC max.	
Minimum operational current	10 mA AC	
Duty cycle	Continuous operation	

Control specifications	SRC 3 DD 4010	SRC 3 DA 4010
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.	25 mA @ 4 V DC	6mA @ 24 V DC/1.5VA
Max. control voltage	26.4 V DC	253 V AC/DC
Response time max.	1/2 cycle	1 cycle
Interlock time max.	80 ms	150 ms

Functional Diagram



Specifications are subject to change without notice



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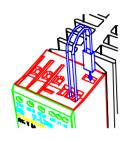
Wiring Diagram

1/L1 3/L2 5/L3 (+)A1 11 12 F R 2/T1 4/T2 6/T3 A2 (+)A3 A4

Main terminal 1/L1-2/T1& 3L2-4T2&5L3-6T3.Control terminals A1-A2 &A3-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 page 38

Power dissipation for continuous operation PDmax.	2.2 W/A
Power dissipation for intermittent operation PD	2.2 W/A duty cycle
Cooling method.	Natural convection
Mounting	Vertical +/-30°
Operating temperature range IEC 947-4-2	-0Co to 60oC
Storage temperature IEC 158-2	-20C° to 80°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

Insulation Specifications

Rated insulation voltage	Ui 660 V
Rated impulse withstand voltage	Uimp. 4 kV
Rated insulation voltage between AC control inputs	Ui 300 V
Rated insulation voltage between DC control inputs	Ui 60 V
Installation category	III

EMC

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

Short-circuit co-ordination According to IEC 947-4-2

See page 38

Contactor Type	Co-ordination Type 1	Co-ordination Type 2	
	Max. fuse / Operating Class	Ferraz	Siemens
SRC3DX 4010	50 A gL / gG	660gRB 10-25	5SD4 80

Environment Cable Wiring Information Degree of protection / Pollution degree IP 20 / 3 See page 57

Approvals Dimension and Mounting Instruction

CAN/CSA-C22.2 / UL Std No. 508 See page 57

Applications InformationOverload Protection with MCBSee page 38See page 38

Utilisation Categories IEC947 | IEC 947

Category AC - 3 Starting, switching off motors during running

Category AC - 4 Starting, plugging, reversing the motor rapidly while the motor is running

*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.