

SOFT STARTER SELECTION SUMMARY



YOUR APPLICATION

Industry:
Application:
Environment:

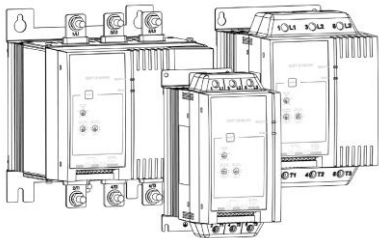
Line Voltage:
Motor Size:



MODEL SELECTION

Series: RSXi
Model Number: RSXi-100-V4

Max Motor FLC:
Start Current:
Start Duration:



NOTE: If the expected operational duty exceeds stated starter capability shown above contact your local representative who will verify correct starter selection.



OPTIONAL ACCESSORIES

Fieldbus

- Profibus
- ProfiNet
- Ethernet IP
- Modbus TCP
- Modbus RTU
- DeviceNet

Finger Guards

- RSXi-140-RSXi-

STANDARD FEATURES



INTERFACE

Rotary potentiometers

LED Status Indication



START / STOP FUNCTION

Current limit

Current Ramp

Voltage Ramp Stop



MOTOR AND SYSTEM PROTECTIONS

Motor Overload

Excess Start Time (Stall)

Phase Loss

Motor Connection Fault

Current imbalance

Phase Sequence

Instant Over Current (Jam)

Motor Thermistor

Line Frequency

SPECIFICATIONS

SUPPLY

Main Voltage L1,L2,L3	RSXi-xxx-V4	200~440 VAC (+10% / - 15%)
	RSXi-xxx-V6	200~575 VAC (+10% / - 15%)
Control Voltage A1,A2,A3	RSXi-xxx-xx-C1	110-240 VAC (+10%/-15%) Or 380-440 VAC (+10%/-15%)
	RSXi-xxx-xx-C2	24 VAC/VDC (+/- 20%)
	50 Hz~60 Hz (+/- 10%)	
Mains Frequency		
Rated insulation	600 VAC to earth	
Form designation	Bypassed semiconductor motor starter form 1	

SHORT CIRCUIT CAPABILITY

Coordination with semiconductor fuses	Type 1
Coordination with HRC fuses	Type 2

ELECTROMAGNETIC CAPABILITY (COMPLIANT WITH EU DIRECTIVE 2014/35/EU)

EMC Immunity	IEC 60947-4-2	EMC Emissions	IEC 60947-4-2 Class B
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INPUTS

	150 kΩ @ 300 VAC and 5.6 kΩ @ 24 VAC/VDC	
Start (01)		Normally open
Stop (02)		Normally closed

OUTPUTS

	6 A, 30 VDC / 6 A, 250 VAC resistive	
Main Contactor (13,14)		Normally open
Programmable Relay (23,24)		Normally open

ENVIRONMENT

Operating Temperature	-10°C~60°C above 40°C with derating	
Storage Temperature	-25°C~+60°C	
Operating Altitude	0-1000m, above 1000m with derating	
Humidity	5%~95% Relative Humidity	
Pollution Degree	Pollution Degree 3	
Vibration	IEC 60068 Test Fc Sinusoidal	
Protection	RSXi-018~RSXi-100	IP20
	RSXi-140~RSXi-200	IP00

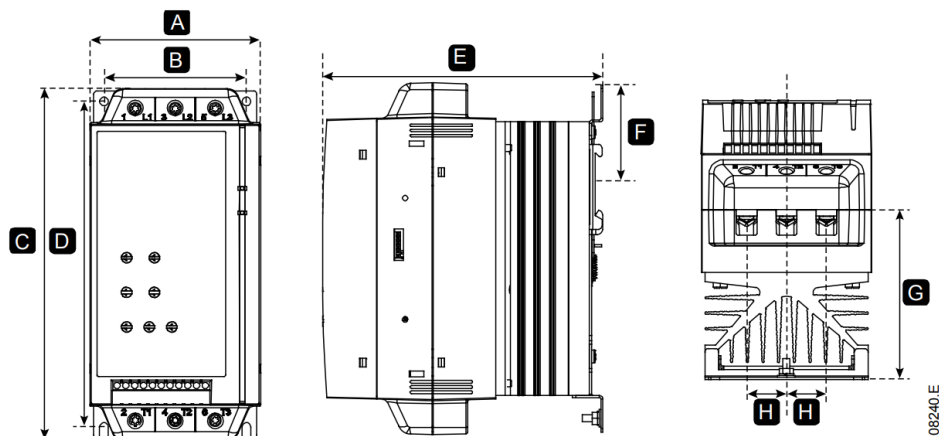
HEAT DISSIPATION

During Start	3 watts per ampere	During Run	10 watts typical
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APPROVALS

RCM	IEC 60947-4-2	CE	EN 60947-4-2
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DIMENSIONS & WEIGHTS

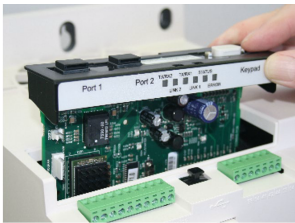


	Width		Height		Depth				Weight
Model	A	B	C	D	E	F	G	H	
RSXi-018	98 (3.85)	82 (3.22)	201 (7.91)	188 (7.40)	165 (6.49)	55 (2.16)	90.5 (3.6)	23 (0.9)	2.2 (4.85)
RSXi-034									
RSXi-042									
RSXi-048									
RSXi-060	145 (5.70)	124 (4.88)	215 (8.46)	196 (7.71)	193 (7.59)	-	110.5 (4.4)	37 (1.5)	4.0 (8.81)
RSXi-075									
RSXi-100									
RSXi-140	200 (7.87)	160 (6.30)	240 (9.44)	216 (8.50)	214 (8.43)	-	114.5 (4.5)	51 (2.0)	6.5 (14.33)
RSXi-170									
RSXi-200									

mm (inches)

kg (lbs)

PUMPING SMART CARD



Installing the PUMPING SMART CARD transforms the TSX soft starters into standalone pump control systems.

A variety of field sensors can be directly connected to the starter making installs smaller, quicker & cheaper. This integrated package delivers a single point of control that ensures operation is easy and reliable.

STANDARD FEATURES



INTERFACE

- Plain Language display
- LED Status Indicators
- Graphing
- Clock
- Weekly Scheduling

- Pumping Units
- Litres
 - Gallons
 - Bar
 - kPa
 - PSI
 - Meters
 - Feet



CONTROL

- Weekly Scheduling
- Pressure Control *
- Level Control *



MONITOR

- Flow
- Pressure
- Depth

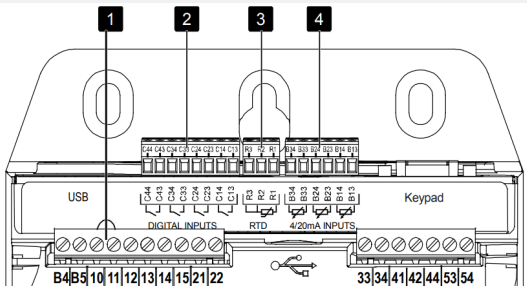


PROTECT

- High Flow **
 - Low Flow **
 - High Pressure **
 - Low Pressure **
 - Low water (Depth) **
 - Pump/motor temp
 - Depth Sensor Fault
 - Pressure Sensor Fault
 - Flow Sensor Fault
- ** Includes
- Start delays
 - Activation delays
 - Activation options
 - ☐ Warn
 - ☐ Trip

- * Includes
- rising and falling activation logic

INPUT OPTIONS



- 1. Reset input
- 2. Digital Inputs
 - Depth Switch
 - Flow Switch or pulse
 - Low Pressure Switch
 - High Pressure Switch
- 3. Motor temperature sensor
- 4. Analogue Inputs (4-20mA)
 - Depth Sensor
 - Flow Sensor
 - Low Pressure Sensor

APPLICATION EXAMPLES

CENTER PIVOT IRRIGATORS



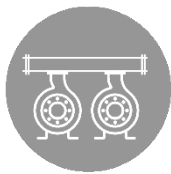
- Program irrigation times using Weekly Calendar Function.
- Prevent pump from damage due to low water levels.
- Detect burst or blocked pipe work.
- Monitor operation in pumping and electrical units from a single screen.
- Operators can collect and share trip data using the MI-START mobile app.

TRAVELLING IRRIGATOR



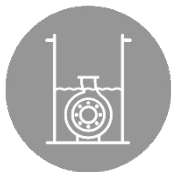
- Control operation using Pressure Control mode and avoid trips to the pump shed. *Connecting the irrigator to main water supply line “wakes” the pump and starts irrigation. When the irrigator reaches the end of the travel and the pump stops and enters “sleep mode” awaiting the next connection.*
- Prevent pump from damage due to low water levels.
- Detect burst or blocked pipe work before further damage occurs.
- Monitor operation in pumping and electrical units from a single screen.
- Operators can collect and share trip data using the MI-START mobile app.

BOOSTER PUMPS



- Automatically control operation using Pressure Control mode. *Low pressure will “wake” the pump and increase flow/pressure. High pressure will return the pump to the “sleep” mode.*
- Detect burst or blocked pipe work before further damage occurs.
- Protect against over-pressure that may damage pipes.
- Monitor operation in pumping and electrical units from a single screen.

SUMP PUMPING



- Automatically control level (auto-empty) *Increasing level will trigger pump operation until minimum level is attained.*
- Prevent pump from damage due to low water levels.
- Monitor operation in pumping and electrical units from a single screen
- Operators can collect and share fault data using the MI-START mobile app.

WATER TOWERS



- Automatically control level (auto-fill) *Decreasing level will trigger pump operation until maximum level is attained.*
- Monitor operation and level in pumping and electrical units from a single screen
- Operators can collect and share fault data using the MI-START mobile app.