

## Features

- 3-Phase Control
- In-built Bypass Relay
- RS485 Bus Communications Interface
- High Degree of Motor Protection
- Wide Motor Voltage Range
- Control Voltage 100 – 240Vac

## RS PRO Soft Starter range 0.75kW – 75kW, 400Vac, 3-phase control + RS485

RS Stock No's.

<b>227-5224</b>	<b>227-5235</b>	<b>227-5227</b>	<b>227-5233</b>
<b>227-5226</b>	<b>227-5221</b>	<b>227-5229</b>	<b>227-5236</b>
<b>227-5219</b>	<b>227-5223</b>	<b>227-5230</b>	<b>227-5220</b>
<b>227-5231</b>	<b>227-5225</b>	<b>227-5232</b>	<b>227-5222</b>



Housing Model A illustrated. See Dimensions for other models.

RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## Product Description

- *Motor Soft-Starters are used to eliminate the start-up shock-load characteristics of Direct On Line (DOL) and Star-Delta Starters commonly used in industrial applications. By eliminating the shock loading the machine and its drive train, and other mechanical linkages are protected from damage and premature wear. Also, by using the Voltage Limiting function it is possible to limit the motors inrush current to avoid exceeding any site maximum demand limit.*
- *Soft-Starters are used with Fans, Blenders, Pumps, Crushers, Compressors, Conveyors, Screw Presses, Hoists*
- *Economic alternative to Variable Speed Drives (Inverters) when a motor is run at its synchronous speed.*

## Control Method

<b>3-Phase Control</b>	The benefits of 3-Phase control compared to 2-Phase control, which is commonly used in budget Soft-Starters, are higher motor torque and lower motor temperature rise caused by a long start-up ramp or a high torque application. Caution: High motor temperature can significantly reduce the motors working life.
------------------------	--

## Communications Interface

<b>RS 485</b>	RS 485/Modbus RTU for Bus network monitoring and control
---------------	--

## General Specifications

<b>Mounting</b>	35m DIN Rail or backplate screw fixing. See table
<b>Dimensions, mm</b>	See table
<b>Weight</b>	See table

## Electrical Specifications

<b>Motor Voltage Range</b>	220V/400V/500V +/- 15% 50/60Hz
<b>Control Voltage Range</b>	100 ~ 240Vac, 50/60Hz
<b>Rated Current @ 400Vac</b>	See table
<b>Rated Power @ 400vac</b>	See table
<b>Rapid Fuse Rating</b>	See table
<b>Initial Motor Voltage</b>	30% ~ 70%
<b>Start Ramp Time Range</b>	0 ~ 30 seconds
<b>Stop Ramp Range</b>	0 ~ 30 seconds
<b>Overload Capability</b>	3 x In for 7 seconds (50% ON time/50% OFF time)
<b>Starts Per Hour</b>	Light Load 5-10. Heavy Load <5. <b>Select higher rated model to increase number of starts per hour if required.</b>

## Motor Protection

<b>Protection features:</b>	Over-Current: during start, operation, stop, output current over limit
	Unbalanced Current: If output current balance exceeds setting
	Phase Failure: Will stop the motor if 1 or 2 phases failed or total loss.
	Thyristor (SCR) Over-temperature: Will stop motor if temp exceeds 80°C
	Phase Sequence: Start inhibited if phase sequence incorrect
	Over-Load: If Current exceeds O/L value for corresponding time

## Environmental Specifications

<b>Temperature</b>	Operating: 0°C~+50°C(32°F~122°F) Storage:-40°C~+70°C(-40°F~158°F)
<b>Maximum Altitude</b>	1000m (3280ft)
<b>IP Rating</b>	IP21

## Approvals

<b>Declarations</b>	MFR Declaration of Conformity
<b>Standards Met</b>	CE, UKCA, RoHS

## Similar Products

Stock No.	Brand	Product Name	Rated Current @400Vac	Motor Power @ 400vac
227-5224	RS PRO	Soft Starter, 400Vac nom, 3-phase	1.5A	0.75kW
227-5226	RS PRO	Soft Starter, 400Vac nom, 3-phase	2.2A	1.1kW
227-5219	RS PRO	Soft Starter, 400Vac nom, 3-phase	3.0A	1.5kW
227-5231	RS PRO	Soft Starter, 400Vac nom, 3-phase	4.5A	2.2kW
227-5235	RS PRO	Soft Starter, 400Vac nom, 3-phase	7.5A	3.7kW
227-5221	RS PRO	Soft Starter, 400Vac nom, 3-phase	11.0A	5.5kW
227-5223	RS PRO	Soft Starter, 400Vac nom, 3-phase	15.0A	7.5kW
227-5225	RS PRO	Soft Starter, 400Vac nom, 3-phase	22.0A	11.0kW
227-5227	RS PRO	Soft Starter, 400Vac nom, 3-phase	30.0A	15.0kW
227-5229	RS PRO	Soft Starter, 400Vac nom, 3-phase	37.0A	18.5kW
227-5230	RS PRO	Soft Starter, 400Vac nom, 3-phase	45.0A	22.0kW
227-5232	RS PRO	Soft Starter, 400Vac nom, 3-phase	60.0A	30.0kW
227-5233	RS PRO	Soft Starter, 400Vac nom, 3-phase	75.0A	37.0kW
227-5236	RS PRO	Soft Starter, 400Vac nom, 3-phase	90.0A	45.0kW
227-5220	RS PRO	Soft Starter, 400Vac nom, 3-phase	110.0A	55.0kW
227-5222	RS PRO	Soft Starter, 400Vac nom, 3-phase	150.0A	75.0kW

## Rated Motor Power & Current per type

Stock No.	220V Pe/kW	400V Pe/kW	500V Pe/kW	Rated Current	Housing Model	Weight
227-5224	0.37kW	0.75kW	1.1kW	1.5A	A	1.0kg
227-5226	0.55kW	1.1kW	1.5kW	2.2A	A	1.0kg
227-5219	0.75kW	1.5kW	2.2kW	3.0A	A	1.0kg
227-5231	1.1kW	2.2kW	3.7kW	4.5A	A	1.0kg
227-5235	1.5kW	3.7kW	5.5kW	7.5A	A	1.0kg
227-5221	2.2kW	5.5kW	7.5kW	11.0A	A	1.0kg
227-5223	3.7kW	7.5kW	11.0kW	15.0A	B	1.4kg
227-5225	5.5kW	11.0kW	15.0kW	22.0A	B	1.4kg
227-5227	7.5kW	15.0kW	18.5kW	30.0A	C	2.4kg
227-5229	11.0kW	18.5kW	22.0kW	37.0A	C	2.4kg
227-5230	15.0kW	22.0kW	30.0kW	45.0A	C	2.4kg
227-5232	18.5kW	30.0kW	37.0kW	60.0A	C	2.4kg
227-5233	22.0kW	37.0kW	45.0kW	75.0A	C	2.4kg
227-5236	25.0kW	45.0kW	55.0kW	90.0A	D	5.0kg
227-5220	30.0kW	55.0kW	75.0kW	110.0A	D	5.2kg
227-5222	37.0kW	75.0kW	90.0kW	150.0A	D	5.2kg

## Rapid Fuse Ratings per type

Stock No.	SCRI <sup>2</sup> T (A <sup>2</sup> S)	Fuse rating
227-5224	70	5A
227-5226	150	10A
227-5219	270	10A
227-5231	610	16A
227-5235	1700	25A
227-5221	3630	32A
227-5223	5000	40A
227-5225	7500	50A
227-5227	10000	63A
227-5229	11000	100A
227-5230	12000	160A

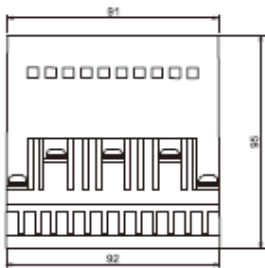
Continued.....

## Rapid Fuse ratings per type (Cont'd)

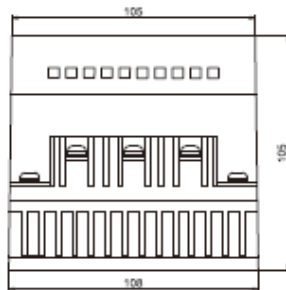
Stock No.	SCR <sup>2</sup> T (A <sup>2</sup> S)	Fuse rating
227-5232	15000	200A
227-5233	18000	250A
227-5236	40000	315A
227-5220	60000	315A
227-5222	100000	400A

## Dimensions

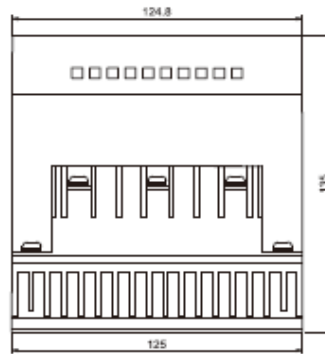
Model A



Model B



Model C



Model D

