

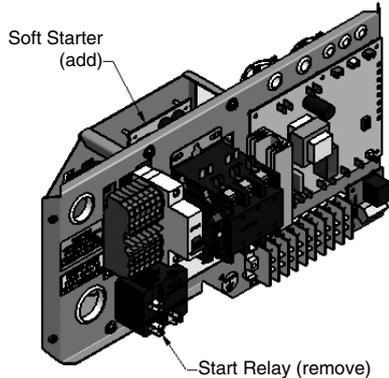
Soft Starter Kit

for OSA 83/95/110/140 RKSH

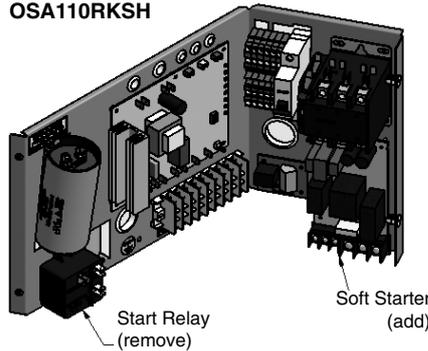
Installation Instructions

Fig.1 Position in Electrical Box

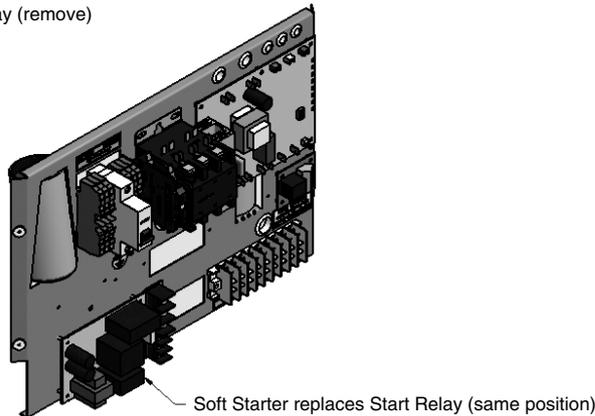
OSA 83/95 RKSH



OSA110RKSH



OSA 140RKSH



Ref. 526-081-007

GENERAL

The optional OSA Soft Starter is designed to reduce the start-up current drawn by the unit when the compressor switches on.

This kit must be installed in accordance with all national and local safety codes.

Check that all items of the kitset are supplied and are in good order.

SOFT STARTER KIT

Models OSA 83/95/110/140 RKSH *Kit Item No.* 526-081-007

Components:

1. Wiring loom - 9 wires
2. Soft Starter Device
3. Terminal block (x3)
4. Terminal label
5. Wiring diagram label

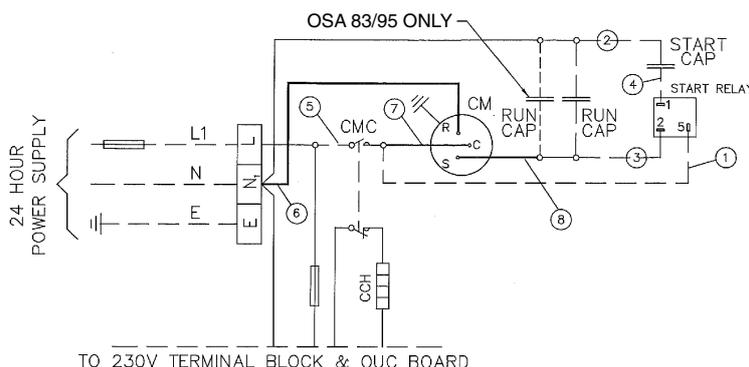
INSTALLATION

1. Ensure the OSA unit is isolated from the power supply, then remove the side access panels. OSA 83/95 will also require removal of top panel.
2. Remove the Start Relay from the unit's electrical box (refer fig.1)
3. Clip the three grey terminal blocks supplied to the mounting rail alongside the existing mains terminal blocks. (OSA 83/95/110: Push away terminal block sheetmetal holding tags).
4. On OSA 83/95 position soft starter behind the electrical plate on the capacitor bracket. Removal of the capacitor bracket is not required.
5. Stick the self adhesive terminal label supplied over the existing mains terminal block label (as per figure 3).
6. Remove the wires listed in Table 1 and discard.
7. Locate/relocate wires listed in Table 2.
8. Add the new wires supplied as per Table 3 overleaf.
9. Replace the access panels.
10. Test the unit by reconnecting the power supply and running the unit. An LED on the soft starter provides status reporting (refer Table 4).

Table 1 Wires to Remove

No.	Colour	From	To
1	Red	CMC bottom L/H	Start relay
2	Black	Start capacitor	Run capacitor
3	White	Run capacitor	Start Relay
4	Brown	Start capacitor	Start relay
5	Red	L	CMC terminal L1

Figure 2 Existing Wiring Diagram



OSA 83/95/110/140 RKSH Soft Starter

Table 2 Wires to Locate/Relocate

No.	Colour	From	To
6	Blue	N ₁	'R' on new terminal block
7	Red	CMC bottom	'C' on new terminal block
8	White	'S' on compressor	'S' on new terminal block
9 & 10	Red	Soft Start	Start capacitor

Table 4 LED Diagnostics

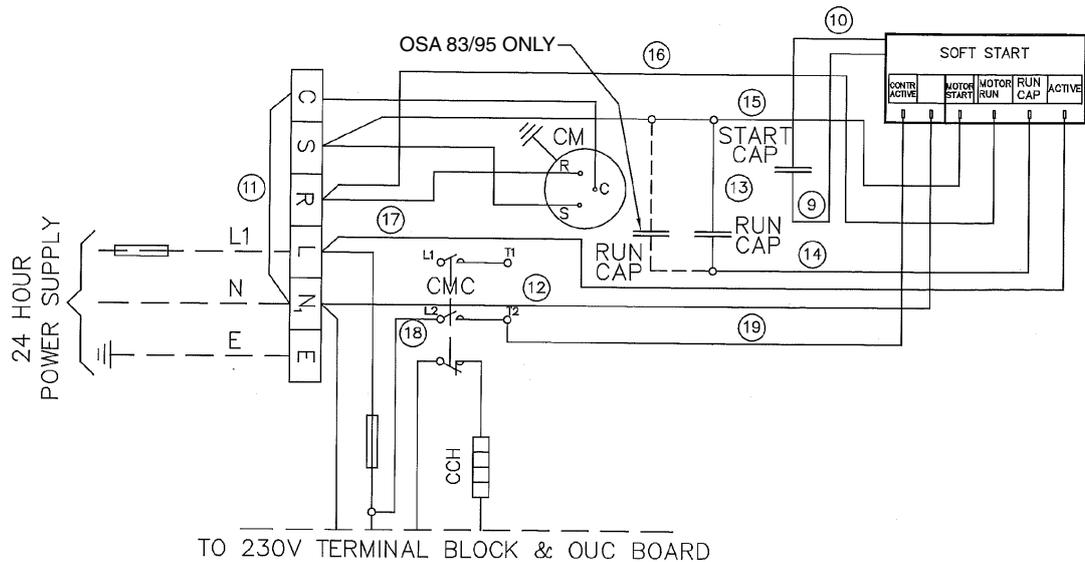
Mode	LED status indication
Standby	1 flash/5 sec.
Normal operation	Constant on
Start delay	1 flash/sec. (3–20 sec. random delay)
Power failure	3 flash/sec. while awaiting restart
Fault	2 flash/sec.

Table 3 Supplied Wires to be Added

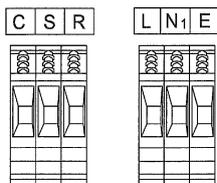
No.	Colour	Lgth(mm)	From	To
11	Black	120	N	C
12	Black	340	N	'NEUTRAL' on Soft Starter
13	White	320	S	Comp. Run Capacitor
14	White	380	Comp. Run Capacitor	'RUN CAP' on Soft Starter
15	White	380	S	'MOTOR S' on Soft Starter
16	Blue	380	R	'MOTOR R' on Soft Starter
17	Red	350	L	'ACTIVE' on Soft Starter
18	Red	430	CMC top L2	'ACTIVE' on 9 way terminal
19	Red	300	CMC bottom T2	'CONTROL ACTIVE' on Soft Starter

Figure 3 New Wiring Diagram

Ref. 526-081-007



Modified mains terminals:



NOTE

The manufacturer reserves the right to make changes in specifications at any time without notice or obligation. Certified data is available on request.

This pamphlet replaces the previous issue no. 3130 dated 06/09. OSA 83 added; 80/115 del.; Fig.1 110 position.