

Soft Starter Kit

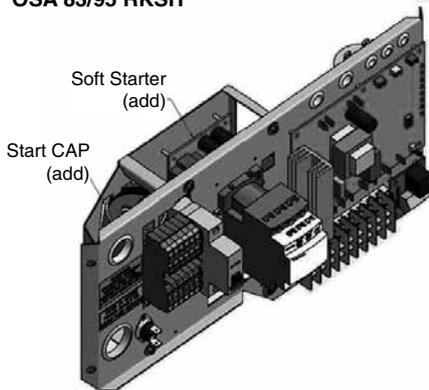
for OSA 83/86/95/110/114/139/140 RKSH

Installation Instructions

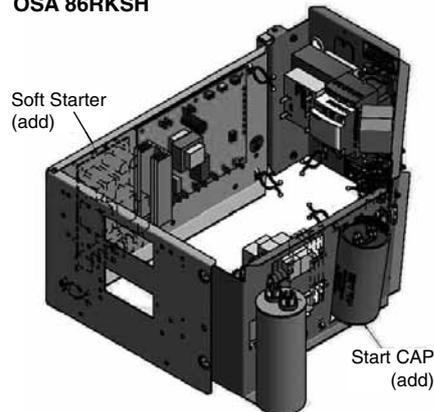
Fig.1 Position in Electrical Box

Ref. 526-081-007

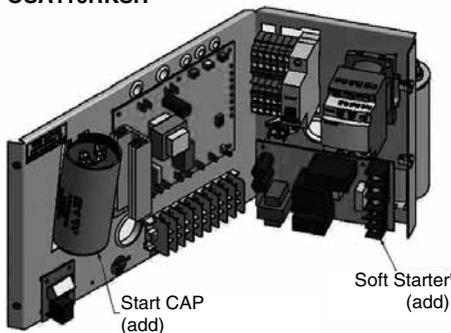
OSA 83/95 RKSH



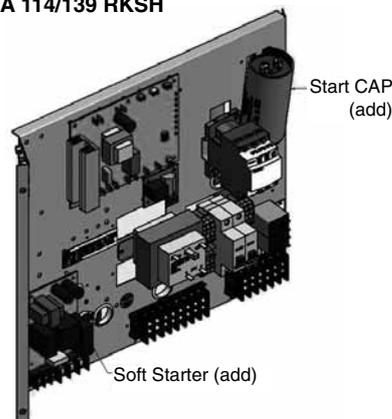
OSA 86RKSH



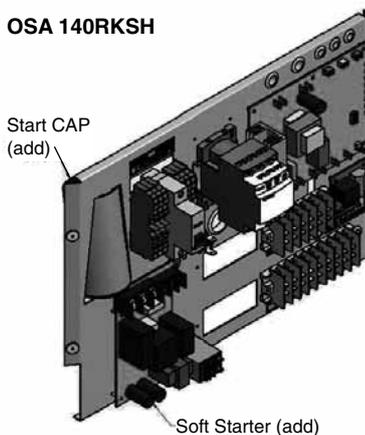
OSA110RKSH



OSA 114/139 RKSH



OSA 140RKSH



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 83/86/95/110/114/139/140 RKSH
Kit Item No: 526-081-007

Components:

1. Wiring loom - 11 wires
2. Soft Starter Device
3. Terminal block (x3)
4. Terminal label
5. Wiring diagram label
6. Closed end connector (H2047) (x2)
7. Start Capacitor (CAP)

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. Add the Soft Starter device and Start Capacitor (CAP) to 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 83/95/110/114/139: 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).

OSA 83/86/95/110/114/139/140 RKSH Soft Starter

Table 1 Wires to Remove

No.	Colour	From	To
1	Red	L	CMC terminal L1

Figure 2 Existing Wiring Diagram

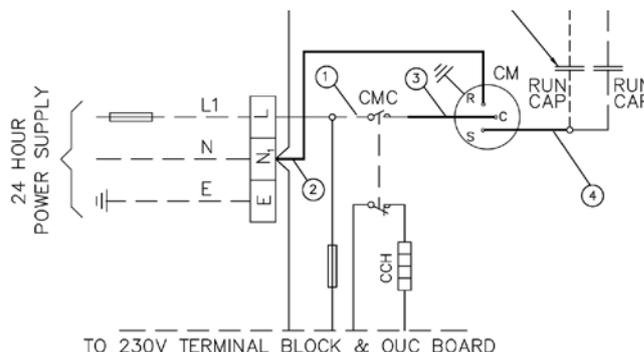


Table 2 Wires to Locate/Relocate

No.	Colour	From	To
2	Blue	N ₁	'R' on new terminal block
3	Red	CMC bottom	'C' on new terminal block
4	White	'S' on compressor	'S' on new terminal block
5 & 6	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
7 & 8	Red	750	Soft Start Extension	Start capacitor *1
9	Black	150	N ₁	C
10	Black	1250	N ₁	'NEUTRAL' on Soft Starter
11	White	320	S	Comp. Run Capacitor
12	Black	1100	Comp. Run Capacitor	'RUN CAP' on Soft Starter
13	White	1100	S	'MOTOR S' on Soft Starter
14	Blue	1100	R	'MOTOR R' on Soft Starter
15	Red	1250	L	'ACTIVE' on Soft Starter
16	Red	430	CMC top L2	'ACTIVE' on terminal block *2
17	Red	550	CMC bottom T2	'CONTROL ACTIVE' on Soft Starter

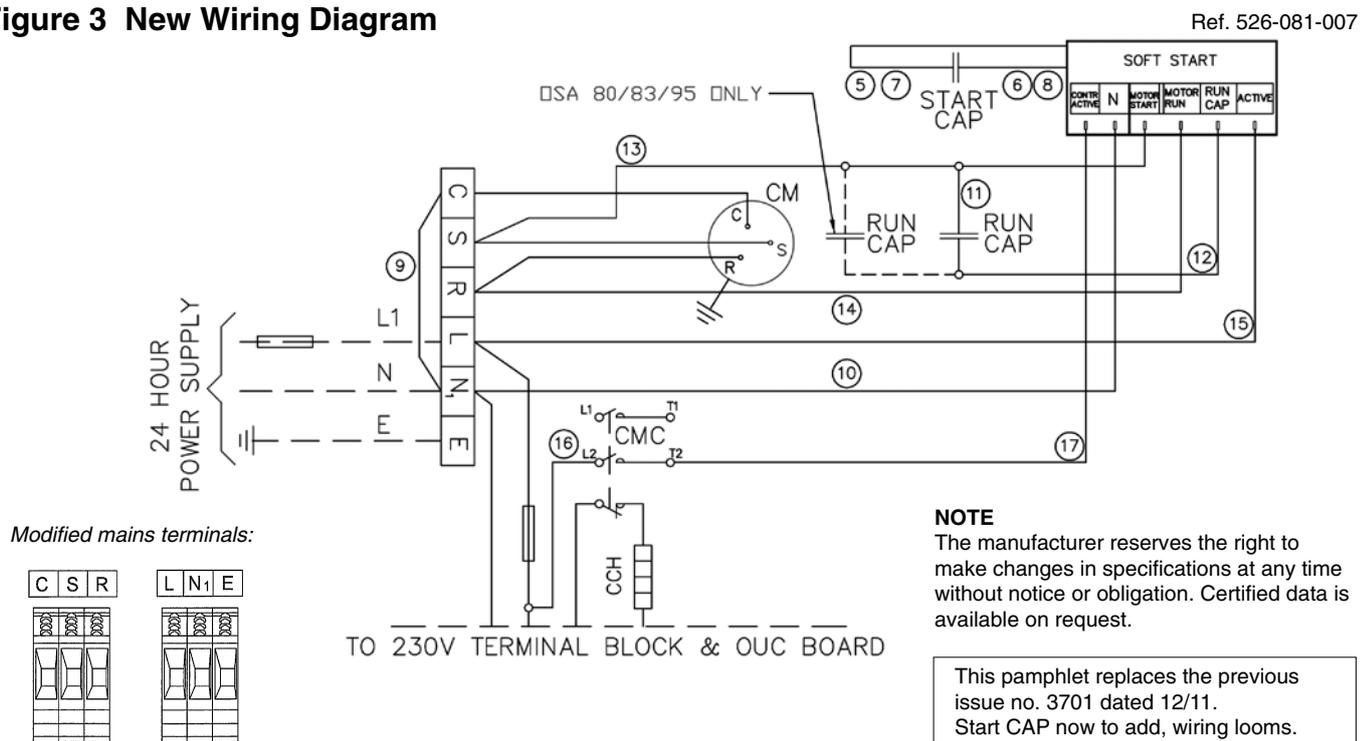
Notes

These additional instructions apply to the OSA 86RK only:

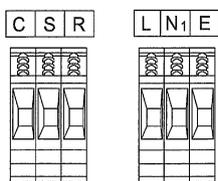
*1 Cut off soft start terminal connectors and strip 10mm. Twist tie two extension wires (7 & 8) to each end of soft starter wires and crimp together wiring closed end connectors supplied (H2047) (x2).

*2 Cut off wire 20 terminal connector and strip 15mm.

Figure 3 New Wiring Diagram



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. 3701 dated 12/11. Start CAP now to add, wiring looms.