



# SERVICE BULLETIN

Title: 17EX/FA VERSION 1 SOFTWARE Number: C9617  
 Date: 6/11/96  
 Supersedes:  
 Date:

Models Affected: 17EX/FA

## PURPOSE:

This bulletin contains information on Version 1 17EX/FA PSIO Software. The following features are a list of basic changes from Version 3 19EF/EX/FA Software detailed in Bulletin C9612.

## FEATURES:

### 1.) Motor Winding Hi Temp Cutout:

Changed 'Motor Winding Temp' to 'Motor Winding Hi Temp Cutout' in STATUS01 Screen. Status is displayed as Normal/Alarm. With open drive motors the ability to read motor temperature has been lost. A temperature switch is used as a protective device in the place of a thermistor.

### 2.) Oil Pressure:

Removed 'Oil Pressure Transducer' from STATUS01 Screen. Oil pressure is read directly from a differential pressure module (bearing supply versus transmission sump pressure) and is displayed in STATUS01 Screen as 'Oil Pressure'.

### 3.) Motor Leak Detector:

Added motor leak detector startup and protective limit faults for totally enclosed, water-to-air cooled (TEWAC) motors in series with the auxiliary oil pressure switch and condenser pressure switch. Changed 'MTRW OVERRIDE' to 'FAILURE TO START/Motor Leak Detector Trip'. Changed 'MTRW PRESTART' to 'PROTECTIVE LIMIT/Motor Leak Detector Trip'. This protective safety limit trips when water from motor cooling is leaking. Water sensors are installed only on open-drive motors that use water cooling. When troubleshooting electro-mechanical safety circuit, check all safeties along with motor leak detector. PIC control distinguishes a 'Motor Leak Detector Trip' from an oil pressure or condenser pressure trip by monitoring the oil pressure and condenser pressure transducers.

FILE: Controls - Wiring

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MAIL KEYS: 2.40A, 2.40M, 2.40I, 2.40J, 2.40G, 2.40, 2.40L, 2.44, 2.33A, 2.33B, 2.3  
 5.25C, 5.25G

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4.) Options Board ALARM configuration:

Added Alarm configuration to SERVICE2 screen options board thermistors. If the "Enable" is set to 3, a value above the "Temp" threshold will generate an alarm. If the "Enable" is set to 4, a value below the "Temp" threshold will generate an alarm.

5.) Auxiliary Oil Pump Control:

During start-up, the auxiliary oil pump will be energized if the main oil pump cannot raise pressure to 18 psid (124 kPa). During compressor operation, the auxiliary oil pump will be energized if the oil pressure falls below the alert threshold (18 psid (124 kPa)). Once running, the auxiliary oil pump will remain on until the compressor is turned off and will deenergize with the main oil pump after the post-lube time period.

6.) Shaft Seal Oil Lube:

PIC control will energize oil pump for one minute to keep the compressor shaft seal flooded during shutdown if the pump has not operated during the last 12 hours.

7.) Stop to Start Timer:

Added a stop to start timer configurable from 3 to 50 minutes with a default of 20 in SERVICE1 screen.

8.) Controls Test:

Added auxiliary oil pump to Controls Test in SERVICE menu screen.