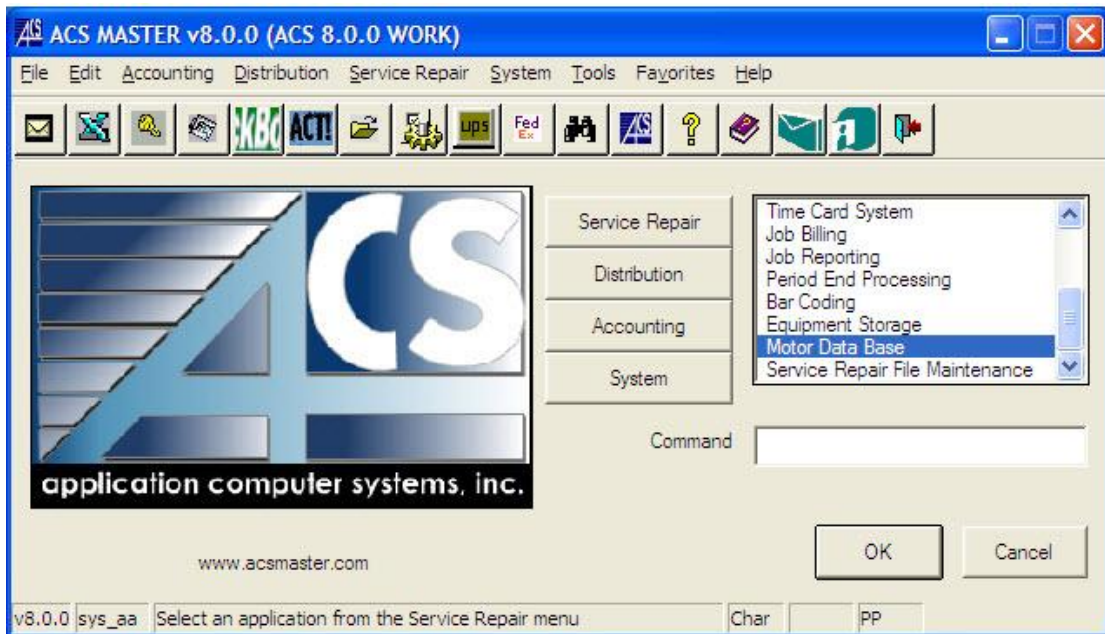




# Motor Database

## Introduction

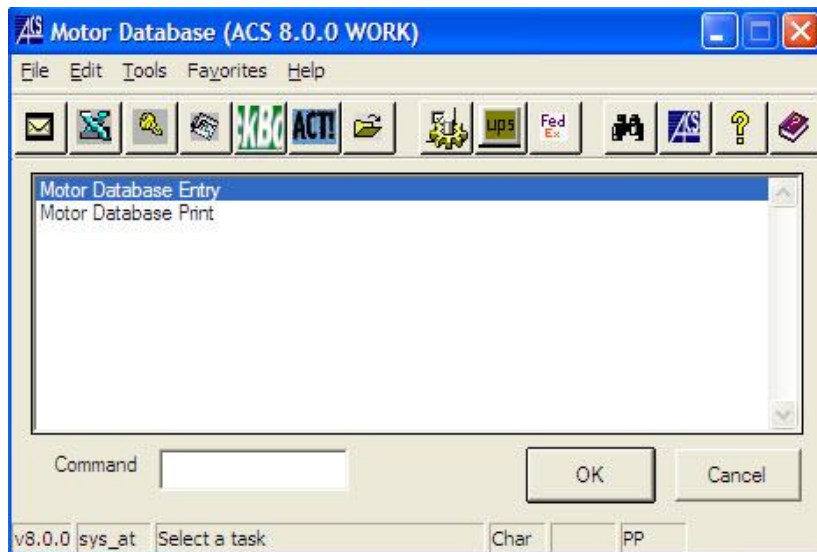
This section of the manual will take the user through an overview of the Motor Database Module. This module stores information on motors that you have wound in your shop. You can track these items by motor number, item number, serial number, model number or description. The Motor Database has predefined fields for the motor winding data.



# Application Computer Systems, Inc. Motor Database

In this section we will review the following in the Motor Database Module:

- Motor Database Entry
  - Header
  - Insulation Specs
  - Coil Wind Data
- Motor Database Print
- Motor Database Inquiry
  - Header
  - Insulation Specs
  - Coil wind Data



## Motor Database Entry

The Motor Database Entry screen has a criteria selection as seen below. The information can be entered and maintained at any time.

# Application Computer Systems, Inc. Motor Database

Motor Database Entry (ELECTRICAL REPAIR COMPANY)

File Edit Favorites Help

Motor Number

Header | Insulation Specs | Coil Wind Data

Item Number  Item Desc   
Serial Number  Mfg   
Model No

HP  Slots  Iron LG  Lead LG   
KW  Coils  Core ID  Lead TP   
RPM  T/C  Slot Dia  Res   
Poles  Span  Core DD  NL Amps   
Frame  CIR   
Enclosure  Conn  Wire 1 Size  Coil HD   
Volts  Nbr Leads  Wire 1 Qty  LD End   
Amps  In/Wd  Wire 2 Size  OP LD   
Wedge  Wire 2 Qty  Est Turns

OK Cancel Delete Print

v8.0.0 mde\_ab Enter Motor Number, <F3>=Lookup Char PP

## Motor Database Entry Field Options:

**Motor Number:** Enter a valid fifteen character alphanumeric Motor Number and click the "OK" button or hit the "Enter" key to either enter a new motor number. All motor numbers are case sensitive. If using alpha characters, we recommend upper case letters.

Click on the magnifying glass, enter "F3", or right click for quick selection look-up to view a list of existing motor numbers.

Click on the "Cancel" button, enter "F4", click on the upper right corner "X" box, or the menu bar button with an arrow pointing through the open door to exit the application.

If you are entering a NEW motor number you will see the following:

Motor Database Entry

Is This A New Record?

Yes No Cancel

## Application Computer Systems, Inc. Motor Database

Click "YES" to proceed with entering a new motor number or click "NO" or "Cancel" to return to the motor number field.

If you are entering an existing motor number the motor information will automatically be displayed.

**Header** – A detailed display of motor specifications provides nameplate data, slot count and diameter, number of leads, wire size and quantity plus much more.

The screenshot shows the 'Motor Database Entry' window for 'ELECTRICAL REPAIR COMPANY'. The 'Motor Number' field contains '10'. The 'Header' tab is active, displaying the following data:

Item Number	AEM2237-4	Item Desc	3PH 7.5HP 1760RPM BALDOR MOTOR
Serial Number	B1478523699874563214	Mfg	Baldor
Model No	M12345678901234		

HP	10.00	Slots	3	Iron LG	4.0	Lead LG	4
Kw	11.00	Coils	4	Core ID	5.0	Lead TP	5.00
RPM	1800	T/C	5	Slot Dia	6.0	Res	1.00
Poles	4	Span	4	Core OD	7.0	NL Amps	6.00
Frame	415T	CIR	3				
Enclosure	1	Conn	3.0	Wire 1 Size	18	Coil HD	
Volts	240	Nbr Leads	4	Wire 1 Qty	50	LD End	5.0
Amps	30.0	In.Wd	2.0	Wire 2 Size	19	OP LD	7.0
		Wedge	3	Wire 2 Qty	50	Est Turns	808

At the bottom of the window, there are buttons for 'OK', 'Cancel', 'Delete', and 'Print'. A status bar at the very bottom reads: 'v8.0.0 mde\_ac Is the Above Data Correct? <Y/N>: Y/N PP'.

### OK/Cancel/Delete / Print

**OK** – Accept data, clear screen, and return to the code entry field.

**Cancel** – **Do not accept** what has been entered, clear screen, and return to the code entry field.

**Delete** – Delete the entry from the file.

**Print** – Prints the motor information.

Additional screens provide both insulation specifications and coil winding data.

# Application Computer Systems, Inc. Motor Database

## Insulation Specs

	Leads	Feed	SL Ins	Wedge	PH Ins	Slv Lds	Slv Y	Slv
Quantity	4		4	4	24	4	3	1
Type	5	.....	5-5-5	NOMEX	STD	STD	STD	STD
Size	9	2	2	3	10	1	10	6
Length	14.00	4.50	4.50	4.50	17.77	4.00	4.00	108.00

### OK/Cancel/Delete / Print

**OK** – Accept data, clear screen, and return to the code entry field.

**Cancel** – **Do not accept** what has been entered, clear screen, and return to the code entry field.

**Delete** – Delete the entry from the file.

**Print** – Prints the motor information.

# Application Computer Systems, Inc. Motor Database

## Coil Wind Data

Motor Number: 10

Header | Insulation Specs | **Coil Wind Data**

----- Sleeving -----

Quantity	Size	Length
3	6	35

----- Turns -----

5	

Span-1	17.270	CM/Amps	14562.25	Coil Std	6.160
SL DP	.50	Flx/Pole	654658.0	Ins Std	.100
IS LG	4.50	Gap Den	654325	Wedge Std	222.280
SP	6.280	Core Den	172278	Con Std	2416.11
PH Vol	139.2	Res Wire 1	.0000	Std Cost	36576.5
Coil HD	10.360	Res Wire 2	.0000	Dis Standard	.540
Coil CI	55.820	CM Wire 1	81216	Clin Standard	.270
		Weight Wire 1	22.67	Assemble Std	.540
		Weight Wire 2	17.98	Machine Std	.470

Buttons: OK, Cancel, Delete, Print

Status: v8.0.0 [mde\_ae] Is the Above Data Correct? <Y/N>: Y/N PP

### OK/Cancel/Delete / Print

**OK** – Accept data, clear screen, and return to the code entry field.

**Cancel** – **Do not accept** what has been entered, clear screen, and return to the code entry field.

**Delete** – Delete the entry from the file.

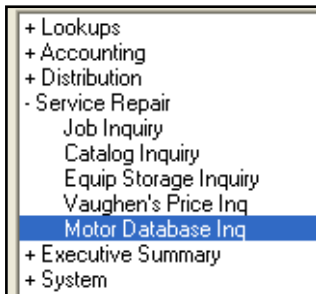
**Print** – Prints the motor information.



# Application Computer Systems, Inc. Motor Database

## Motor Database Inquiry

You have access to data that has been previously entered for the motor. This information can be quickly accessed through ACS SpeedSearch under Service Repair by clicking on the binoculars on the ACS tool bar or by selecting "F5".



A screenshot of the ACS SpeedSearch (ACS 8.0.0 STANDARD SYSTEM) application window. The window title is "SpeedSearch (ACS 8.0.0 STANDARD SYSTEM)". The menu bar includes "File", "Edit", "Favorites", and "Help". The toolbar contains various icons including a magnifying glass, a binoculars icon, and a key icon. The main form has a "Motor Number" input field at the top. Below it are tabs for "Header", "Insulation Specs", and "Coil Wind Data". The "Header" tab is active, showing fields for "Item Number", "Item Desc", "Serial Number", "Mfg", and "Model No". Below these are several rows of input fields for motor specifications: HP, KW, RPM, Poles, Frame, Enclosure, Volts, Amps, Slots, Coils, T/C, Span, CIR, Conn, Nbr Leads, In.Wd, Wedge, Iron LG, Core ID, Slot Dia, Core OD, Wire 1 Size, Wire 1 Qty, Wire 2 Size, Wire 2 Qty, Lead LG, Lead TP, Res, NL Amps, Coil HD, LD End, OP LD, and Est Turns. At the bottom right are "OK", "Cancel", "Delete", and "Print" buttons. The status bar at the bottom shows "v8.0.0 mde\_ab Enter Motor Number, <F3>=Lookup Char PP".

**Motor Number:** Enter a valid fifteen character alphanumeric Motor Number and click the "OK" button. All motor numbers are case sensitive. If using alpha characters, we recommend upper case letters.

Click on the magnifying glass, enter "F3", or right click for quick selection lookup to view a list of existing motor numbers.

Click on the "Cancel" button, enter "F4", click on the upper right corner "X" box, or the menu bar button with an arrow pointing through the open door to exit the application.



# Application Computer Systems, Inc. Motor Database

## Header

The system will display the Motor Header information.

The screenshot displays the 'SpeedSearch (ACS 8.0.0 STANDARD SYSTEM)' application window. At the top, there is a menu bar with 'File', 'Edit', 'Favorites', and 'Help'. Below the menu bar is a toolbar with various icons. A search field labeled 'Motor Number' contains the value '10'. Below this, there are three tabs: 'Header', 'Insulation Specs', and 'Coil Wind Data'. The 'Header' tab is selected, showing a form with the following data:

Item Number	AEM2237-4	Item Desc	3PH 7.5HP 1760RPM BALDOR MOTOR
Serial Number	B1478523699874563214	Mfg	Baldor
Model No	M12345678901234		
HP	10.00	Slots	3
KW	11.00	Coils	4
RPM	1800	T/C	5
Poles	4	Span	4
Frame	415T	CIR	3
Enclosure	1	Conn	3.0
Volts	240	Nbr Leads	4
Amps	30.0	In.Wd	2.0
		Wedge	3
		Iron LG	4.0
		Core ID	5.0
		Slot Dia	6.0
		Core OD	7.0
		Lead LG	4
		Lead TP	5.00
		Res	1.00
		NL Amps	6.00
		Wire 1 Size	18
		Wire 1 Qty	50
		Wire 2 Size	19
		Wire 2 Qty	50
		Coil HD	
		LD End	5.0
		OPLD	7.0
		Est Turns	808

At the bottom of the window, there are four buttons: 'OK', 'Cancel', 'Delete', and 'Print'. A status bar at the very bottom contains the text 'v8.0.0 mde\_ac: Is the Above Data Correct? <Y/N>:' and 'Y/N PP'.

The data displayed may not be edited in this inquiry option.

# Application Computer Systems, Inc. Motor Database

**Insulation Specs:** Displays insulation specs data entered in Motor Database Entry.

The screenshot shows a software window titled "SpeedSearch (ACS 8.0.0 STANDARD SYSTEM)". The window has a menu bar with "File", "Edit", "Favorites", and "Help". Below the menu bar is a toolbar with various icons. A text field labeled "Motor Number" contains the value "10". There are three tabs: "Header", "Insulation Specs" (which is selected), and "Coil Wind Data". The main area displays a table with the following data:

	Leads	Feed	SL Ins	Wedge	PH Ins	Slv Lds	Slv Y	Slv
Quantity	4		4	4	24	4	3	1
Type	5	—	5-5-5	NOMEX	STD	STD	STD	STD
Size	9	2	2	3	10	1	10	6
Length	14.00	4.50	4.50	4.50	17.77	4.00	4.00	108.00

At the bottom of the window, there are four buttons: "OK", "Cancel", "Delete", and "Print". The status bar at the very bottom contains the text "v8.0.0 mde\_ad Is the Above Data Correct? <Y/N>:" followed by "Y/N" and "PP".

The data displayed may not be edited in this inquiry option.

# Application Computer Systems, Inc. Motor Database

**Coil Wind Data:** Displays the coil wind data entered in Motor Database Entry.

SpeedSearch (ACS 8.0.0 STANDARD SYSTEM)

File Edit Favorites Help

Motor Number: 10

Header Insulation Specs **Coil Wind Data**

		Slewing			Turns	
		Quantity	Size	Length		
Head Size	5				5	
Setting	6.00	3	6	35		
Coil/Load	0					
Coils/Group	3					
Span-1	17.270	CM/Amps	14562.25	Coil Std	6.160	
SLDP	.50	Flx/Pole	654658.0	Ins Std	.100	
IS LG	4.50	Gap Den	654325	Wedge Std	222.280	
SP	6.280	Core Den	172278	Con Std	2416.11	
PH Vol	139.2	Res Wire 1	.0000	Std Cost	36576.5	
Coil HD	10.360	Res Wire 2	.0000	Dis Standard	.540	
Coil CI	55.820	Weight Wire 1	22.67	Cln Standard	.270	
CM Wire 1	81216	Weight Wire 2	17.98	Assemble Std	.540	
CM Wire 2	64406			Machine Std	.470	

OK Cancel Delete Print

v8.0.0 mde\_aei Is the Above Data Correct? <Y/N>: Y/N PP

The data displayed may not be edited in this inquiry option.