



SERVICE BULLETIN

Title: Medium (High) Voltage Motor Terminal Kits
Models Affected: 19EA,EB,EF,EX,FA

Number: C9732
Date: 10/17/97
Supersedes: New

PURPOSE:

To inform of the availability of new motor terminal kits using the improved aluminum motor terminals plates and ceramic motor terminal design.

FILE: Compressor-Motor-Drive-Gear

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BACKGROUND:

Up to this point all of the above model centrifugal chillers utilizing medium voltage motors used plastic terminals mounted in a plastic terminal plate.

For replacement parts RCD had four kits set up, part numbers 19EF660001, 002, 003, and 004 to replace broken or leaking plastic terminals or terminal plates of different motor configurations.

DESIGN CHANGE:

Recently a design change has occurred on medium voltage 19EX machines. The 19EX's now utilize an aluminum terminal plate and the new ceramic terminals being used on all medium voltage machines.

REPLACEMENT PARTS:

New kits are now available which utilize the aluminum terminal block and ceramic terminals. The number of kits has been reduced from four to two.

IMPORTANT: The new terminal kit part numbers are 19EF660001 and 002. Please note that the contents contained in each kit are not the same as in the old kit even though the part numbers are the same.

Table 1 contains an application chart for the kits based on the model, motor size and voltage of the chiller. Each kit contains a complete set of parts (see Table 2) and instructions on installing the terminal board and ceramic terminals. Figure 1 shows the two different terminal plates with the ceramic terminal installed. For further instructions on installing the ceramic terminal you can refer to bulletin C9608.

It is highly recommended to use both the aluminum terminal board and the new ceramic terminals when replacing any old style plastic parts. However, it is possible to mix and match. The new ceramic terminal (02XB05003001) will work with the old style terminal boards (19EF5021023 & 19EF5021013). The old style terminal (19EF5021023 & 19EF680001) will work with the new aluminum terminal boards (02EX45000201 & 02EX55006201). One reminder is that if you replace the old style plastic terminal board with a new aluminum terminal board shorter bolts are necessary. These are included with kits.

Table 1 — Medium (High) Voltage Motor Terminal Selection Guide

MEDIUM (HIGH) VOLTAGE MOTOR TERMINAL SELECTION GUIDE

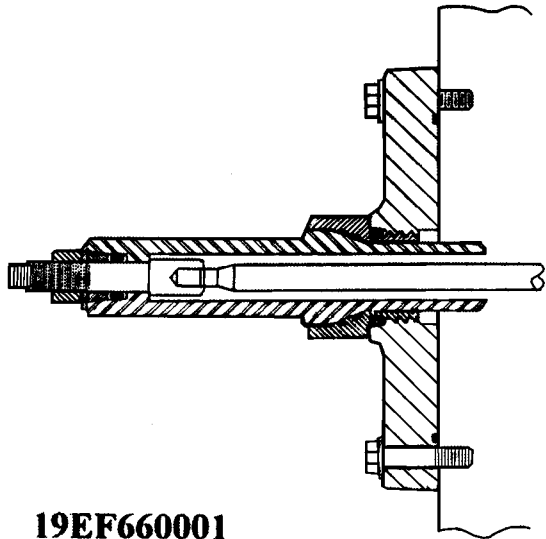
MTR. CODE	MTR. SIZE	19EF						19FA / 19EX						19EA / 19EB						MODEL						
		80			50			60			50			60			50			HZ						
		2400	3000	4160	6900	3000	3300	6300	2400	3000	3300	4160	6900	3000	3300	6300	2400	3000	3300	4160	6900	3000	3300	6300	VOLTS	
CB	C2							▲	▲	▲																
CD	C4							▲	▲	▲																
CL	C6							▲	▲	▲																
CN	C8							▲	▲	▲																
DB	D2							▲	▲	▲			▲	▲					▲	▲	▲					
DC	D3												▲	▲					▲	▲	▲					
DD	D4							▲		▲	▲	▲	▲	▲					▲	▲	▲	▲	▲	▲	▲	▲
DE	D5																		▲	▲	▲	▲	▲	▲	▲	▲
DF	D6	▲		▲	▲		▲	▲		▲	▲	▲	▲	▲	▲	▲			▲	▲	▲	▲	▲	▲	▲	▲
DG	D7	▲		▲	▲		▲	▲											▲	▲	▲	▲	▲	▲	▲	▲
DH	D8	▲		▲	▲		▲	▲		▲	▲	▲	▲	●					▲	▲	▲	▲	▲	▲	▲	●
DJ	D9	▲		▲	▲		▲	▲											▲	▲	▲	▲	▲	▲	▲	●
DK	D10	▲		▲	▲		▲	▲		▲	▲	▲	●	▲					▲	▲	▲	▲	▲	▲	▲	●
DL	D11	▲		▲	▲		▲	▲											▲	▲	▲	▲	▲	▲	▲	●
DM	D12	▲		▲	▲		▲	▲		▲	▲	▲	●	▲					▲	▲	▲	▲	▲	▲	▲	●
DN	D13	▲		▲	▲		▲	▲											▲	▲	▲	▲	▲	▲	▲	●
DP	D14	▲		▲	▲		▲	▲		▲	▲	▲	●	▲					▲	▲	▲	▲	▲	▲	▲	●
DQ	D14.6							▲		▲	▲	▲	●	▲					▲	▲	▲	▲	▲	▲	▲	●
EA	E1									●	●	●	●	●	●											
EB	E2									●	●	●	●	●	●											
EC	E3									●	●	●	●	●	●											
ED	E4									●	●	●	●	●	●											

LEGEND		
SYMBOL	TERMINAL ARRANGEMENT	KIT PART NUMBER
▲	02EX4400101	19EF660001
●	02EX54004501	19EF660002

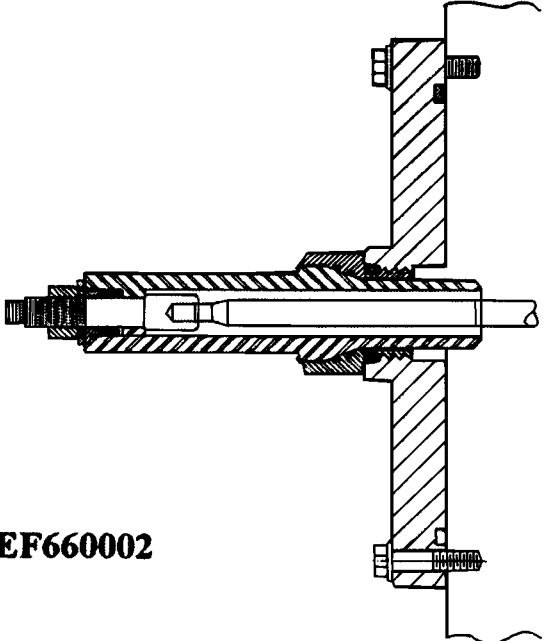
Table 2 — Service Part Kit # 19EF660001 Consists of

SERVICE PART KIT # 19EF660001 CONSISTS OF

ITEM NO.	DESCRIPTION	PART NUMBER	QUANTITY
1.	QUAD RING	KK74ZW487	3
2.	TERMINAL BOARD	02EX45000201	3
3.	TERMINAL INSULATOR INCLUDES (1) BRASS JAM NUT, (1) COPPER STUD O-RING, (1) CERAMIC INSULATOR O-RING, AND (4) COPPER WASHERS	02XB05003001	3
4.	INSTRUCTION SHEET	99TA550107 REV. A	1
5.	BOLTS	AA06BS234	30
SERVICE PART KIT # 19EF660002 CONSISTS OF			
ITEM NO.	DESCRIPTION	PART NUMBER	QUANTITY
1.	O-RING	KK71GW073	3
2.	TERMINAL BOARD	02EX55006201	3
3.	TERMINAL INSULATOR INCLUDES (1) BRASS JAM NUT, (1) COPPER STUD O-RING, (1) CERAMIC INSULATOR O-RING, AND (4) COPPER WASHERS	02XB05003001	3
4.	INSTRUCTION SHEET	99TA550107 REV. A	1
5.	BOLTS	AA06BS234	42



19EF660001



19EF660002

Figure 1
Terminal Arrangement