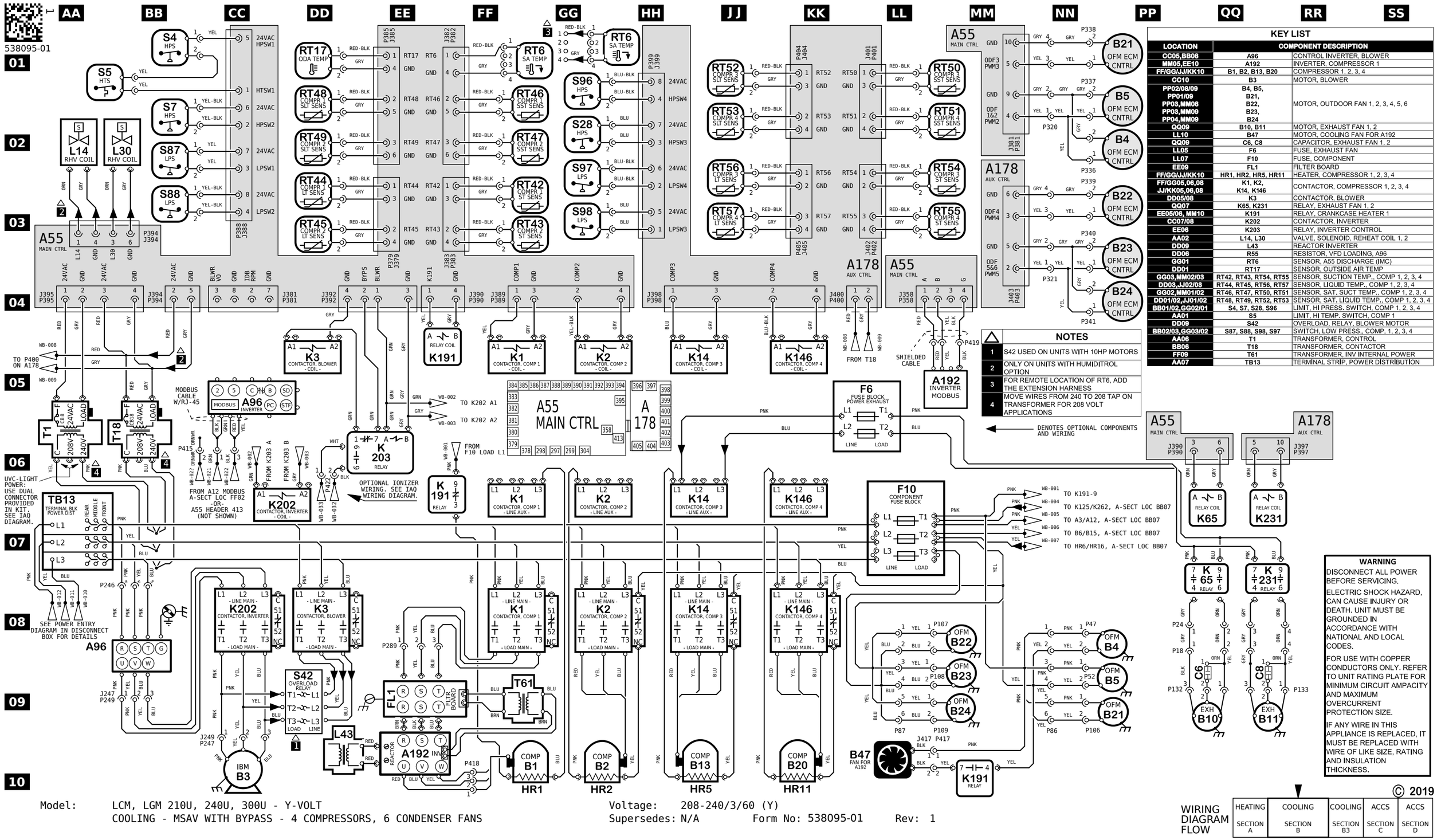
538095-01



KEY LIST

LOCATION	COMPONENT DESCRIPTION	
CC05,BB08	A96	CONTROL INVERTER, BLOWER
MM05,EE10	A192	INVERTER, COMPRESSOR 1
FF/GG/JJ/KK10	B1, B2, B13, B20	COMPRESSOR 1, 2, 3, 4
CC10	B3	MOTOR, BLOWER
PP02/08/09 PP01/09 PP03,MM08 PP03,MM09 PP04,MM09	B4, B5, B21, B22, B23, B24	MOTOR, OUTDOOR FAN 1, 2, 3, 4, 5, 6
QQ09	B10, B11	MOTOR, EXHAUST FAN 1, 2
LL10	B47	MOTOR, COOLING FAN FOR A192
QQ09	C6, C8	CAPACITOR, EXHAUST FAN 1, 2
LL05	F6	FUSE, EXHAUST FAN
LL07	F10	FUSE, COMPONENT
EE09	FL1	FILTER BOARD
FF/GG/JJ/KK10	HR1, HR2, HR5, HR11	HEATER, COMPRESSOR 1, 2, 3, 4
FF/GG05,06,08 JJ/KK05,06,08	K1, K2, K14, K146	CONTACTOR, COMPRESSOR 1, 2, 3, 4
DD05/08	K3	CONTACTOR, BLOWER
QQ07	K65, K231	RELAY, EXHAUST FAN 1, 2
EE05/08, MM10	K191	RELAY, CRANKCASE HEATER 1
CC07/08	K202	CONTACTOR, INVERTER
EE06	K203	RELAY, INVERTER CONTROL
AA02	L14, L30	VALVE, SOLENOID, REHEAT COIL 1, 2
DD09	L43	REACTOR INVERTER
DD06	R55	RESISTOR, VFD LOADING, A96
GG01	RT6	SENSOR, A55 DISCHARGE (IMC)
DD01	RT17	SENSOR, OUTSIDE AIR TEMP
GG03,MM02/03	RT42, RT43, RT54, RT55	SENSOR, SUCTION TEMP., COMP 1, 2, 3, 4
DD03,JJ02/03	RT44, RT45, RT56, RT57	SENSOR, LIQUID TEMP., COMP 1, 2, 3, 4
GG02,MM01/02	RT46, RT47, RT50, RT51	SENSOR, SAT. SUCT TEMP., COMP 1, 2, 3, 4
DD01/02,JJ01/02	RT48, RT49, RT52, RT53	SENSOR, SAT. LIQUID TEMP., COMP 1, 2, 3, 4
BB01/02,GG02/01	S4, S7, S28, S96	LIMIT, HI PRESS. SWITCH, COMP 1, 2, 3, 4
AA01	S5	LIMIT, HI TEMP. SWITCH, COMP 1
DD09	S42	OVERLOAD, RELAY, BLOWER MOTOR
BB02/03,GG03/02	S87, S88, S98, S97	SWITCH, LOW PRESS., COMP. 1, 2, 3, 4
AA06	T1	TRANSFORMER, CONTROL
BB06	T18	TRANSFORMER, CONTACTOR
FF09	T61	TRANSFORMER, INV INTERNAL POWER
AA07	TB13	TERMINAL STRIP, POWER DISTRIBUTION

NOTES

1	S42 USED ON UNITS WITH 10HP MOTORS
2	ONLY ON UNITS WITH HUMIDITROL OPTION
3	FOR REMOTE LOCATION OF RT6, ADD THE EXTENSION HARNESS
4	MOVE WIRES FROM 240 TO 208 TAP ON TRANSFORMER FOR 208 VOLT APPLICATIONS

DENOTES OPTIONAL COMPONENTS AND WIRING

WARNING

DISCONNECT ALL POWER BEFORE SERVICING.

ELECTRIC SHOCK HAZARD. CAN CAUSE INJURY OR DEATH. UNIT MUST BE GROUNDED IN ACCORDANCE WITH NATIONAL AND LOCAL CODES.

FOR USE WITH COPPER CONDUCTORS ONLY. REFER TO UNIT RATING PLATE FOR MINIMUM CIRCUIT AMPACITY AND MAXIMUM OVERCURRENT PROTECTION SIZE.

IF ANY WIRE IN THIS APPLIANCE IS REPLACED, IT MUST BE REPLACED WITH WIRE OF LIKE SIZE, RATING AND INSULATION THICKNESS.

© 2019

Model: LCM, LGM 210U, 240U, 300U - Y-VOLT
COOLING - MSAV WITH BYPASS - 4 COMPRESSORS, 6 CONDENSER FANS

Voltage: 208-240/3/60 (Y)
Supersedes: N/A Form No: 538095-01 Rev: 1

WIRING DIAGRAM FLOW

HEATING	COOLING	COOLING	ACCS	ACCS
SECTION A	SECTION B	SECTION B3	SECTION C	SECTION D

10x17 CUT SIZE

REV	EC NO.	DATE	BY	APVD	REVISION NOTE
---	CN-008993P	01-25-2021	MXR6	JAL21	ORIGINATED AT PD&R CARROLLTON, TX
001	CN-008993AE	04-30-2021	MXR6	JAL21	A) MODBUS CABLE COLOR ON P415 BRN WAS BLU, BLK WAS ORN.

538095-01

AA BB CC DD EE FF GG HH JJ KK LL MM NN PP QQ RR SS

01 02 03 04 05 06 07 08 09 10

KEY LIST

LOCATION	COMPONENT DESCRIPTION	
CC05,BB08	A96	CONTROL INVERTER, BLOWER
MM05,EE10	A192	INVERTER, COMPRESSOR 1
FF/GG/JJ/KK10	B1, B2, B13, B20	COMPRESSOR 1, 2, 3, 4
CC10	B3	MOTOR, BLOWER
PP02/08/09 PP01/09 PP03,MM08 PP03,MM09 PP04,MM09	B4, B5, B21, B22, B23, B24	MOTOR, OUTDOOR FAN 1, 2, 3, 4, 5, 6
QQ09	B10, B11	MOTOR, EXHAUST FAN 1, 2
LL10	B47	MOTOR, COOLING FAN FOR A192
QQ09	C6, C8	CAPACITOR, EXHAUST FAN 1, 2
LL05	F6	FUSE, EXHAUST FAN
LL07	F10	FUSE, COMPONENT
EE09	FL1	FILTER BOARD
FF/GG/JJ/KK10	HR1, HR2, HR5, HR11	HEATER, COMPRESSOR 1, 2, 3, 4
FF/GG05,06,08 JJ/KK05,06,08	K1, K2, K14, K146	CONTACTOR, COMPRESSOR 1, 2, 3, 4
DD05/08	K3	CONTACTOR, BLOWER
QQ07	K65, K231	RELAY, EXHAUST FAN 1, 2
EE05/08, MM10	K191	RELAY, CRANKCASE HEATER 1
CC07/08	K202	CONTACTOR, INVERTER
EE06	K203	RELAY, INVERTER CONTROL
AA02	L14, L30	VALVE, SOLENOID, REHEAT COIL 1, 2
DD09	L43	REACTOR INVERTER
DD06	R55	RESISTOR, VFD LOADING, A96
GG01	RT6	SENSOR, A55 DISCHARGE (IMC)
DD01	RT17	SENSOR, OUTSIDE AIR TEMP
GG03,MM02/03	RT42, RT43, RT54, RT55	SENSOR, SUCTION TEMP., COMP 1, 2, 3, 4
DD03,JJ02/03	RT44, RT45, RT56, RT57	SENSOR, LIQUID TEMP., COMP 1, 2, 3, 4
GG02,MM01/02	RT46, RT47, RT50, RT51	SENSOR, SAT. SUCT TEMP., COMP 1, 2, 3, 4
DD01/02,JJ01/02	RT48, RT49, RT52, RT53	SENSOR, SAT. LIQUID TEMP., COMP 1, 2, 3, 4
BB01/02,GG02/01	S4, S7, S28, S96	LIMIT, HI PRESS. SWITCH, COMP 1, 2, 3, 4
AA01	S5	LIMIT, HI TEMP. SWITCH, COMP 1
DD09	S42	OVERLOAD, RELAY, BLOWER MOTOR
BB02/03,GG03/02	S87, S88, S98, S97	SWITCH, LOW PRESS., COMP. 1, 2, 3, 4
AA06	T1	TRANSFORMER, CONTROL
BB06	T18	TRANSFORMER, CONTACTOR
FF09	T61	TRANSFORMER, INV INTERNAL POWER
AA07	TB13	TERMINAL STRIP, POWER DISTRIBUTION

NOTES

1	S42 USED ON UNITS WITH 10HP MOTORS
2	ONLY ON UNITS WITH HUMIDITROL OPTION
3	FOR REMOTE LOCATION OF RT6, ADD THE EXTENSION HARNESS
4	MOVE WIRES FROM 240 TO 208 TAP ON TRANSFORMER FOR 208 VOLT APPLICATIONS

DENOTES OPTIONAL COMPONENTS AND WIRING

WARNING

DISCONNECT ALL POWER BEFORE SERVICING.

ELECTRIC SHOCK HAZARD. CAN CAUSE INJURY OR DEATH. UNIT MUST BE GROUNDED IN ACCORDANCE WITH NATIONAL AND LOCAL CODES.

FOR USE WITH COPPER CONDUCTORS ONLY. REFER TO UNIT RATING PLATE FOR MINIMUM CIRCUIT AMPACITY AND MAXIMUM OVERCURRENT PROTECTION SIZE.

IF ANY WIRE IN THIS APPLIANCE IS REPLACED, IT MUST BE REPLACED WITH WIRE OF LIKE SIZE, RATING AND INSULATION THICKNESS.

Model: LCM, LGM 210U, 240U, 300U - Y-VOLT
COOLING - MSAV WITH BYPASS - 4 COMPRESSORS, 6 CONDENSER FANS

Voltage: 208-240/3/60 (Y)
Supersedes: N/A Form No: 538095-01 Rev: 1

© 2019

WIRING DIAGRAM FLOW

HEATING	COOLING	COOLING	ACCS	ACCS
SECTION A	SECTION B	SECTION B3	SECTION C	SECTION D

10x17 CUT SIZE

REV	EC NO.	DATE	BY	APVD	REVISION NOTE
---	CN-008993P	01-25-2021	MXR6	JAL21	ORIGINATED AT PD&R CARROLLTON, TX
001	CN-008993AE	04-30-2021	MXR6	JAL21	A) MODBUS CABLE COLOR ON P415 BRN WAS BLU, BLK WAS ORN.