

Z B 6 W 2 - E 46 / 50 S

Z 6 W 2 B - E 46 S

ADDITIONAL VOLTAGE CODE IF PRESENT

COMPRESSOR SERIES

NUMBER OF CYLINDERS - 4, 6

MOTOR VENDOR
L = LEROY SOMER
S = A. O. SMITH

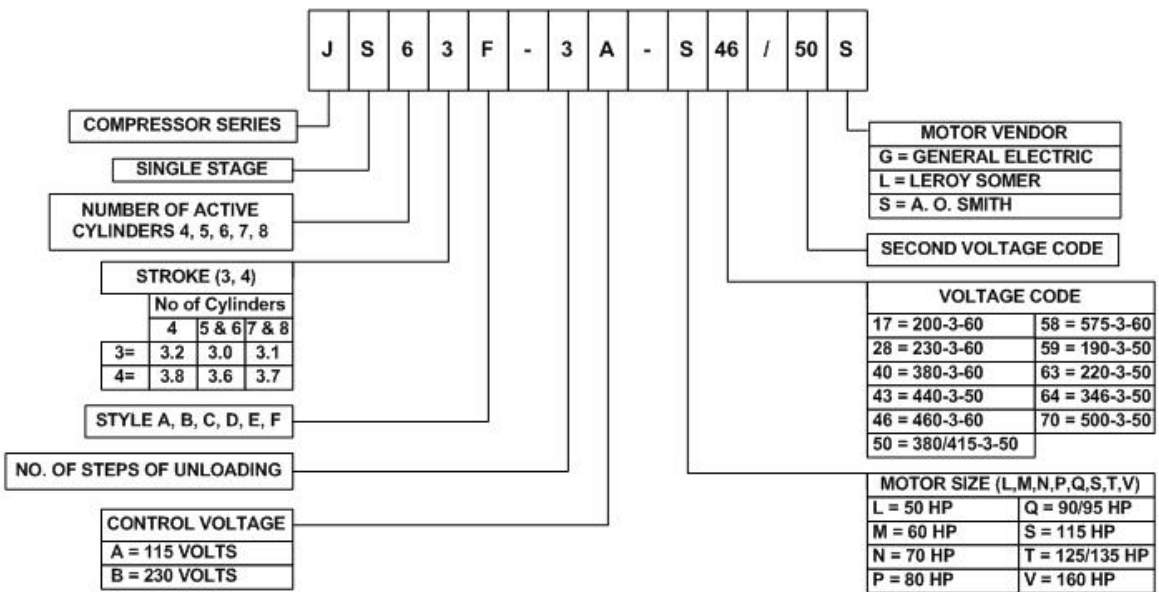
DISPLACEMENT		
H	4 Cyl., 2.7" Bore, 2.4" Stroke	56.03 CFM
J	4 Cyl., 2.9" Bore, 2.4" Stroke	64.45 CFM
K	4 Cyl., 2.7" Bore, 3" Stroke	70.03 CFM
M	4 Cyl., 2.9" Bore, 3" Stroke	80.56 CFM
N	6 Cyl., 2.7" Bore, 2.4" Stroke	84.04 CFM
R	6 Cyl., 2.9" Bore, 2.4" Stroke	96.67 CFM
S	6 Cyl., 2.7" Bore, 3" Stroke	105.04 CFM
W	6 Cyl., 2.9" Bore, 3" Stroke	120.84 CFM
AE	6 Cyl., 3.1" Bore, 3" Stroke	141.21 CFM

VOLTAGE CODE	
17 = 200-3-60	58 = 575-3-60
28 = 230-3-60	59 = 190-3-50
40 = 380-3-60	63 = 220-3-50
43 = 440-3-50	64 = 346-3-50
46 = 460-3-60	70 = 500-3-50
50 = 380/415-3-50	

NO. OF STEPS OF UNLOADING

STYLE A, B

MOTOR SIZE (A, B, C, D, or E)	
A = 25 HP	D = 55 HP
B = 35 HP	E = 65 HP
C = 45 HP	



MODEL NUMBER VARIATIONS

EARLY 'J' MODEL NUMBERS DO NOT HAVE A NUMBER AND/OR LETTER DESIGNATION FOR STEPS OF UNLOADING AND CONTROL VOLTAGE. WHEN ORDERING A REPLACEMENT FOR THESE COMPRESSORS YOU MUST SPECIFY TYPE AND NUMBER OF UNLOADER STEPS AND CRANKCASE HEATER VOLTAGE.

NOT ALL 'J' COMPRESSORS HAVE TWO VOLTAGE DESIGNATIONS.

STARTING WITH THE 'G' STYLE COMPRESSOR YORK REPLACED THE 'S' (SINGLE STAGE) DESIGNATION WITH THE STYLE LETTER. ie JG63.

MODEL	C	R	H	R	-	400	B	2	A0	0	0	R	1	A	1	A	1
DIGIT	1	2	3	4	-	5,6 & 7	8	9	10 & 11	12	13	14	15	16	17	18	19

DIGIT 1 UNIT TYPE
COMPRESSOR

DIGIT 2 COMPRESSOR TYPE
R = RECIPROCATING

DIGIT 3 MOTOR TYPE
H = HERMETIC, INTERNAL DRIVE
O = OPEN EXTERNAL DRIVE

DIGIT 4 COMPRESSOR MODEL
K = MODEL K COMPRESSOR
M = MODEL M COMPRESSOR
R = MODEL R COMPRESSOR
A = MODEL A COMPRESSOR
B = MODEL B COMPRESSOR
F = MODEL F COMPRESSOR
E = MODEL E COMPRESSOR
H = MODEL H COMPRESSOR
L = MODEL L COMPRESSOR

DIGIT 19 SEAL TYPE
1 (OLD) = OLD STYLE (MODEL E OPEN ONLY)
2 (NEW) = NEW STYLE (MODEL E OPEN ONLY)
0 (NSEL) = NO SELECTION AVAILABLE

DIGIT 18 SIGHT GLASS
A (SCREW) = SCREW IN
B (BOLT) = BOLT ON
C (NSEL) = NO SELECTION AVAILABLE
D (SML) = SMALL 3/4" MPT (MODEL K)
E (LRGE) = LARGE 1" MPT (MODEL K)

DIGIT 17 VALVE CAGE OR PLATE
1 (OLDC) = OLD STYLE VALVE CAGE (MODEL E & F)
2 (NEWC) = NEW STYLE VALVE CAGE (MODEL E & F)
3 (OLDP) = OLD STYLE VALVE PLATE (MODEL M)
4 (NEWP) = NEW STYLE VALVE PLATE (MODEL M)
0 (NSEL) = NO SELECTION AVAILABLE

DIGIT 16 HOUSING
A = OLD STYLE (E OPEN)
B = NEW STYLE (E OPEN)
C = OLD STYLE, LARGE BARREL MOTOR (E HERMETIC)
D = NEW STYLE, LARGE BARREL MOTOR (E HERMETIC)
E = NEW STYLE, SMALL BARREL MOTOR (E HERMETIC)
F = OLD STYLE, LARGE BARREL MOTOR (F HERMETIC)
G = NEW STYLE, SMALL BARREL MOTOR (F HERMETIC)
H = OLD STYLE (MODEL R)
J = NEW STYLE (MODEL R)
K = NO SELECTION AVAILABLE
L = OLD STYLE (F OPEN 3 CYLINDER)
M = NEW STYLE (F OPEN 3 CYLINDER)

DIGIT 15 CRANKSHAFT
1 (STD) = STANDARD SIZE
2 (UNDR) = 020 UNDERSIZE
3 (NSEL) = NO SELECTION AVAILABLE

DIGIT 14
R = REMANUFACTURED

DIGIT 13 BASIC COMPRESSOR VARIATION
0 = STANDARD COMPRESSOR (TOP LOCATION MODEL M ONLY)
1 = 100% UNLOADED START E & F MODELS ONLY
2 = STANDARD COMPRESSOR RIGHT HAND, A, B, E & F MODELS
3 = 100% UNLOADED START RIGHT HAND, E & F MODELS
4 = SIDE JUNCTION BOX LOCATION (MODEL M & R 4 CYLINDER)
S = SPECIAL

DIGIT 12 UNLOADER CONTROL AND UNLOADING METHOD
0 = NO UNLOADING
A = 115 VAC, ELEC. MODELS E, F, K, R
B = 230 VAC, ELEC. MODELS E, F, K, R
C = 12 VDC, ELEC. MODELS E, F, K, R
E = 32 VDC, ELEC. MODELS E, F, K, R
F = 64 VDC, ELEC. MODELS E, F, K, R
G = 187 VDC, ELEC. MODELS E, F, K, R
H = 24 VAC, ELEC. MODELS E, F, K, R
R = REMOTE ELECTRIC, COMPRESSOR HAND HOLE COVER ONLY, MODELS E & F ONLY
P = SUCTION PRESSURE UNLOADING, MODELS E & F ONLY
S = SPECIAL

DIGITS 10 AND 11 DESIGN SEQUENCE
A0 = DESIGN SEQUENCE

DIGIT 9 NUMBER OF CYLINDERS THAT UNLOAD (AT CAPACITY)
0 = NO UNLOADING
2 = 2 CYLINDERS
3 = 3 CYLINDERS
4 = 4 CYLINDERS
5 = 5 CYLINDERS
6 = 6 CYLINDERS

DIGIT 8 MOTOR VOLTAGE AND FREQUENCY

A	200-60-3	K	400-50-3/460-60-3	V	346-50-3
B	230/460-60-3	L	208-50/60-3	W	230-60-3
C	460-60-3	M	230-50/60-3	X	380-60-3
D	575-60-3	N	115-60-3	Y	200-50-3
E	200/400/50-3	O	OPEN	Z	363-50-3
F	220-50-3	P	208-400-3		
G	400-50-3	Q	200-50-3/230-60-3		
H	208/230-60-1	R	208-60-3		
J	200/230-60-3	S	SPECIAL		
K	200/220-50-3	U	200-50/60-3		

DIGITS 5, 6, & 7
NOMINAL COMPRESSOR SIZE SUCTION VALVE LIFT
REFRIGERANT COMPATIBILITY

COMP. MODEL	SIZE	TONS	REFRIGERANT	CU. IN. PER REV.	NO. CYL.	SPECIAL FEATURE
A	400	40	R-22	92.3	4	
	600	60	R-22	138.5	6	
	750	75	R-22	184.7	8	
	250	25	R-12	92.3	4	
	350	40	R-12	138.5	6	
B	500	50	R-12	184.7	8	
	150	15	R-22	39.7	4	
	250	25	R-22	59.6	6	
	300	30	R-22	79.6	8	
	100	10	R-12	39.7	4	
E	140	15	R-12	59.6	6	
	200	20	R-12	79.6	8	
	500	50	R-22	115.5	4	STD. LIFT VALVES
	600	60	R-22	144.5	5	STD. LIFT VALVES
	750	75	R-22	173.3	6	STD. LIFT VALVES
	100	100	R-22	231	8	STD. LIFT VALVES
	501	50	R-22	115.5	4	LOW LIFT VALVES
	601	60	R-22	144.5	5	LOW LIFT VALVES
	751	75	R-22	173.3	6	LOW LIFT VALVES
	101	100	R-22	231	8	LOW LIFT VALVES
F	150	15	R-22	35.6	3	STD. LIFT VALVES
	200	20	R-22	47.5	4	STD. LIFT VALVES
	250	25	R-22	59.4	5	STD. LIFT VALVES
	300	30	R-22	71.4	6	STD. LIFT VALVES
	400	40	R-22	95.0	8	STD. LIFT VALVES
	151	15	R-22	35.6	3	LOW LIFT VALVES
	201	20	R-22	47.5	4	LOW LIFT VALVES
	251	25	R-22	59.4	5	LOW LIFT VALVES
	301	30	R-22	71.4	6	LOW LIFT VALVES
	401	40	R-22	95.0	8	LOW LIFT VALVES
	100	10	R-12	35.6	3	STD. LIFT VALVES
	130	12.5	R-12	47.5	4	STD. LIFT VALVES
	160	16	R-12	59.4	5	STD. LIFT VALVES
	190	19	R-12	71.4	6	STD. LIFT VALVES
	260	25	R-12	95.0	8	STD. LIFT VALVES
M	101	10	R-12	35.0	3	LOW LIFT VALVES
	131	12.5	R-12	47.5	4	LOW LIFT VALVES
	161	15	R-12	59.4	5	LOW LIFT VALVES
	191	20	R-12	71.4	6	LOW LIFT VALVES
	261	25	R-12	95.0	8	LOW LIFT VALVES
	150	15	R-22 / R-502	38.8	3	
	160	16	R-22 / R-502	43.2	4	
	200	20	R-22 / R-502	51.7	4	
	250	25	R-22 / R-502	64.6	6	
	300	30	R-22 / R-502	77.5	6	
R	100	10	R-12	38.8	3	
	130	13	R-12	51.7	4	
	170	17	R-12	64.6	6	
	190	19	R-12	77.5	6	
	350	35	R-22 / R-502	85.46	4	STD. LIFT VALVES
	400	40	R-22 / R-502	102.8	4	STD. LIFT VALVES
	500	50	R-22 / R-502	128.19	6	STD. LIFT VALVES
	600	60	R-22 / R-502	153.12	6	STD. LIFT VALVES
	351	35	R-22 / R-502	85.46	4	LOW LIFT VALVES
	401	40	R-22 / R-502	102.8	4	LOW LIFT VALVES
K	501	50	R-22 / R-502	128.19	6	LOW LIFT VALVES
	601	60	R-22 / R-502	153.12	6	LOW LIFT VALVES
	200	20	R-22	50.61	4	
250	25	R-22	64.5	6		
300	30	R-22	75.91	6		

MODEL	C	R	H	R	-	400	K	-	4	R	A	0
DIGIT	1	2	3	4	-	5,6 & 7	8	-	9	10	11	12

POSITIVE DISPLACEMENT
REFRIGERANT COMPRESSOR

R = RECIPROCATING
S = SCROLL
H = HELICAL ROTARY

H = HERMETIC INTERNAL MOTOR
O = OPEN EXTERNAL DRIVE

COMPRESSOR MODEL AND DEVELOPMENT SEQUENCE	
E	= 1750 RPM HORIZONTAL SERVICEABLE, CAST IRON
F	= 1750 RPM HORIZONTAL SERVICEABLE, CAST IRON
M	= 1750 RPM HORIZONTAL SERVICEABLE, CAST IRON
R	= 1750 RPM HORIZONTAL SERVICEABLE, CAST IRON
K	= 1750 RPM VERTICAL WELDED STEEL SHELL

BASIC COMPRESSOR VARIATION

0 = STANDARD COMPRESSOR
1 = 100% UNLOADED START
E & F MODELS ONLY
2 = STANDARD COMPRESSOR
RIGHT HAND, E & F MODELS
3 = 100% UNLOADED START
RIGHT HAND, E & F MODELS
4 = SIDE JUNCTION BOX LOCATION
4 CYL. R MODELS ONLY

UNLOADER CONTROL AND UNLOADING METHOD

0 = NO UNLOADING
A = 115 VAC, ELEC. MODELS E, F, K, R
B = 230 VAC, ELEC. MODELS E, F, K, R
C = 12 VDC, ELEC. MODELS E, F, K, R
E = 32 VDC, ELEC. MODELS E, F, K, R
F = 64 VDC, ELEC. MODELS E, F, K, R
G = 187 VDC, ELEC. MODELS E, F, K, R
H = 24 VAC, ELEC. MODELS E, F, K, R
R = REMOTE ELECTRIC COMPRESSOR
HAND HOLE COVER ONLY, MODELS
E & F ONLY
P = SUCTION PRESSURE UNLOADING,
MODELS E & F ONLY
U = 2 SPEED MOTOR, MODEL S ONLY
S = SPECIAL

DESIGN SEQUENCE FACTORY ASSIGNED DIGIT

REMANUFACTURED COMPRESSORS WILL
HAVE A 'R' AS THE 10TH DIGIT

COMPRESSOR UNLOADING NUMBER OF CYLINDERS THAT UNLOAD

0 = NO UNLOADING
1 = MODELS E, F, K, R
2 = MODELS E, F, K, R
3 = MODELS E, F, K, R
4 = MODELS E, F, K, R
5 = MODELS E, F
6 = MODELS E, F

NOMINAL COMPRESSOR SIZE SUCTION VALVE LIFT REFRIGERANT COMPATIBILITY					
COMP. MODEL	SIZE	REFRIGERANT	CU. IN. PER REV.	NO. CYL.	SPECIAL FEATURE
E	500	R-22	115.5	4	STD. LIFT VALVES
	600	R-22	144.5	5	STD. LIFT VALVES
	750	R-22	173.3	6	STD. LIFT VALVES
	100	R-22	231	8	STD. LIFT VALVES
	501	R-22	115.5	4	LOW LIFT VALVES
	601	R-22	144.5	5	LOW LIFT VALVES
	751	R-22	173.3	6	LOW LIFT VALVES
1C1	R-22	231	8	LOW LIFT VALVES	
F	150	R-22	35.6	3	STD. LIFT VALVES
	200	R-22	47.5	4	STD. LIFT VALVES
	250	R-22	59.4	5	STD. LIFT VALVES
	300	R-22	71.4	6	STD. LIFT VALVES
	400	R-22	95.0	8	STD. LIFT VALVES
	151	R-22	35.6	3	LOW LIFT VALVES
	201	R-22	47.5	4	LOW LIFT VALVES
	251	R-22	59.4	5	LOW LIFT VALVES
	301	R-22	71.4	6	LOW LIFT VALVES
	401	R-22	95.0	8	LOW LIFT VALVES
	100	R-12	35.6	3	STD. LIFT VALVES
	130	R-12	47.5	4	STD. LIFT VALVES
	160	R-12	59.4	5	STD. LIFT VALVES
	190	R-12	71.4	6	STD. LIFT VALVES
	260	R-12	95.0	8	STD. LIFT VALVES
	401	R-12	35.0	3	LOW LIFT VALVES
	131	R-12	47.5	4	LOW LIFT VALVES
161	R-12	59.4	5	LOW LIFT VALVES	
191	R-12	71.4	6	LOW LIFT VALVES	
261	R-12	95.0	8	LOW LIFT VALVES	
M	150	R-22 / R-502	38.8	3	
	160	R-22 / R-502	43.2	4	
	200	R-22 / R-502	51.7	4	
	250	R-22 / R-502	64.6	6	
	300	R-22 / R-502	77.5	6	
	100	R-12	38.8	3	
	130	R-12	51.7	4	
170	R-12	64.6	6		
190	R-12	77.5	6		
R	350	R-22 / R-502	85.46	4	STD. LIFT VALVES
	400	R-22 / R-502	102.8	4	STD. LIFT VALVES
	500	R-22 / R-502	128.19	6	STD. LIFT VALVES
	600	R-22 / R-502	153.12	6	STD. LIFT VALVES
	351	R-22 / R-502	85.46	4	LOW LIFT VALVES
	401	R-22 / R-502	102.8	4	LOW LIFT VALVES
501	R-22 / R-502	128.19	6	LOW LIFT VALVES	
601	R-22 / R-502	153.12	6	LOW LIFT VALVES	
K	200	R-22	50.61	4	
	250	R-22	64.5	6	
	300	R-22	75.91	6	

COMPRESSOR MOTOR FREQUENCY AND VOLTAGE

CODE	NOMINAL	MIN. VOLTS	MAX. VOLTS
A	200-60-3	180	220
B	230/460-60-3	207/414	254/506
C	460-60-3	444	508
D	575-60-3	518	635
E	200/400/50-3	180/343	220/456
F	220-50-3	198	254 (242 ON E MODEL)
G	400-50-3	343	456
H	208/230-60-1	197	254
J	200/230-60-3	180	254
	200/220-50-3	180	254
K	400-50-3/460-60-3	340/414	460/508
L	208-50-60-3	198	229
M	230-50-60-3	215	254
N	115-60-3	109	128
O	OPEN		
P	208-400-3	198	229
Q	200-50-3/230-60-3	180/207	220/254
R	208-60-3	187	254
S	SPECIAL		
U	200-50-60-3	180	220
V	346-50-3	308	381
W	230-60-3	208	254
X	380-60-3	342	418
Y	200-50-3	180	220
Z	363-50-3	327	399

MODEL	C	R	H	M	-	300	A	-	4	G	A	T
DIGIT	1	2	3	4	-	5,6 & 7	8	-	9	10	11	12

REFRIGERANT COMPRESSOR

RECIPROCATING PISTON

HERMETIC MOTOR

DEVELOPMENT SEQUENCE (M, R)

JUNCTION BOX
S = SIDE
T = TOP

CONTROL VOLTAGE
A = 115/60
B = 230/60

DESIGN SEQUENCE

NUMBER OF
CYLINDERS
THAT UNLOAD

NOMINAL SIZE			
M MODELS			
100	NOM. 10 TON	R-12	3 CYLINDER
130	NOM. 13 TON	R-12	4 CYLINDER
170	NOM. 17 TON	R-12	5 CYL. DESIGN SEQUENCE A, B, & C
170	NOM. 17 TON	R-12	6 CYL. DESIGN SEQ. D,E,F,G, & J
190	NOM. 19 TON	R-12	6 CYLINDER
150	NOM. 15 TON	R-22	3 CYLINDER
160	NOM. 16 TON	R-22	4 CYLINDER
200	NOM. 20 TON	R-22	4 CYLINDER
250	NOM. 25 TON	R-22	5 CYL. DESIGN SEQUENCE A, B, & C
250	NOM. 25 TON	R-22	6 CYLINDER DESIGN SEQ. D,E,F,G, & J
300	NOM. 30 TON	R-22	6 CYLINDER
R MODELS			
260	NOM. 26 TON	R-12	4 CYLINDER
320	NOM. 32 TON	R-12	6 CYLINDER
380	NOM 38 TON	R-12	6 CYLINDER
400	NOM 40 TON	R-22	4 CYLINDER
500	NOM 50 TON	R-22	6 CYLINDER
600	NOM 60 TON	R-22	6 CYLINDER

ELECTRICAL CHARACTERISTICS	
A	200/60/3
B	230/460/60/3
C	460/60/3
D	575/60/3
E	200/50/3
F	230/50/3
G	397/50/3
W	230/60/3

MODEL	M	3	0	D	-	2	E	4	A	-	A
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DIGIT	1	2 & 3	4		5	6	7	8		9
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COMPRESSOR TYPE

NOMINAL SIZE	
10	10 TON
15	15 TON
20	20 TON
25	25 TON
30	30 TON

ELECTRICAL CHARACTERISTICS	
C	200/60/3
D	230/60/3
E	460/60/3
F	575/60/3
G	230/60/3
H	397/50/3
M	230/460/60/3

DESIGN SEQUENCE

SOLENOID VOLTAGE	
A	115 VAC
B	230 VAC

NUMBER OF CYLINDERS THAT UNLOAD

TYPE UNLOADING
E = ELECTRIC SOLENOID ON CYLINDER HEAD

NUMBER OF CYLINDERS 3, 4, 5, 6 OR 8

MODEL	2	F	5	B	8	8	N
DIGIT	1	2	3	4	5	6	7

REFRIGERANT TYPE
 1 = R12 (HERMETIC ONLY)
 2 = R22 (HERMETIC ONLY)
 3 = OPEN DRIVE

MODEL (TONS)				
CYL..	E		F	
	R-12	R-22	R-12	R-22
3	-	-	10	15
4	30	50	12.5	20
5	40	60	15	25
6	50	75	20	30
8	60	100	25	40

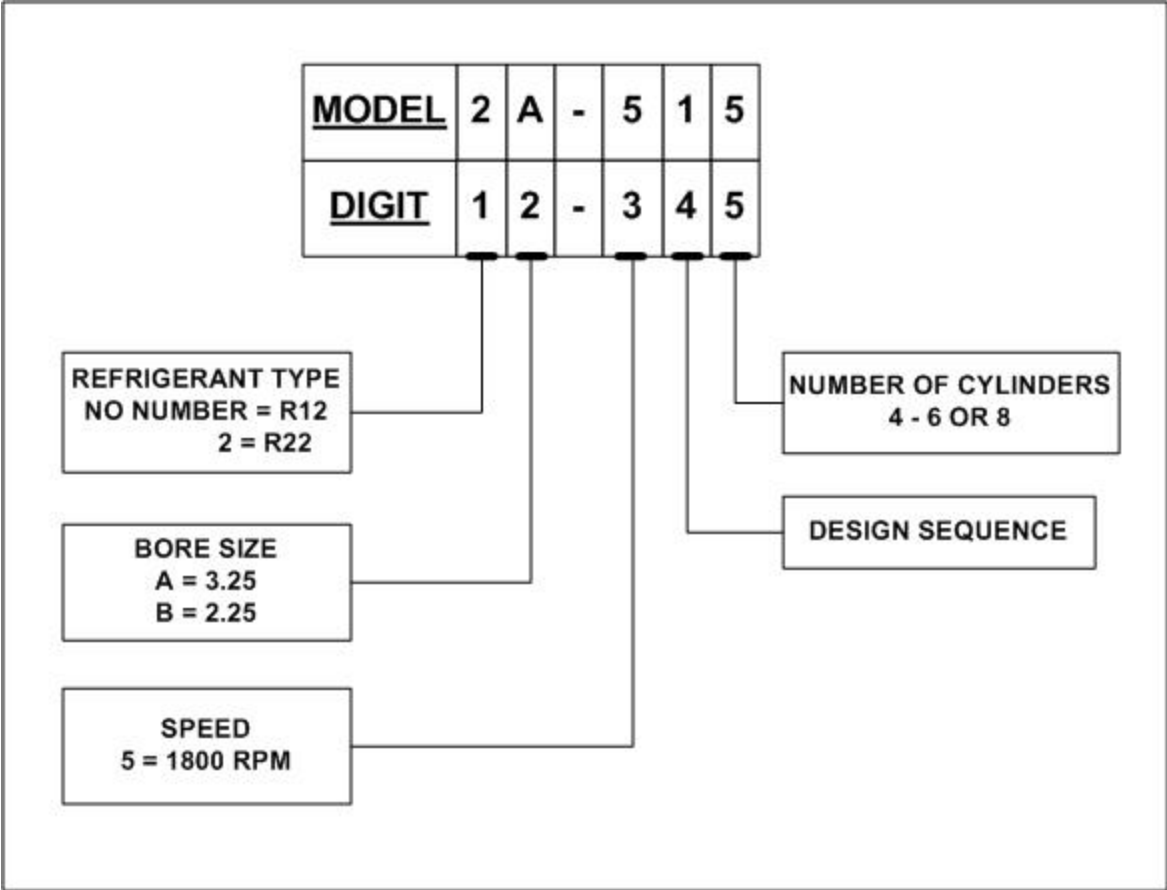
SPEED 5 = 1800 RPM

N	SOLENOID UNLOADING
W	100% UNLOADING (100% UNLOAD START)
R	RIGHT HAND
L	LOW LIFT VALVES
Z	REMOTE MOUNT ELECT. SOL. UNLOAD
Y	100% UNLOAD w/ REMOTE SOLENOID
X	NON UNLOADING COMPRESSOR

ELECTRICAL CHARACTERISTICS	
0	OPEN
1	460-3-60 SIX LEAD
2	575-3-60 SIX LEAD
7	440-3-60 SIX LEAD
8	200/230/460/-3-60 NINE LEAD
9	480-3-60 SIX LEAD

NUMBER OF CYLINDERS 3, 4, 5, 6 OR 8

DESIGN SEQUENCE A, B, C, D



MODEL	4	R	R	2	-	3000	-	T	S	K	-	800
DIGIT	1	2	3	4	-	5,6,7 & 8	-	9	10	11	-	12,13,14

DIGIT 1 COMPRESSOR FAMILY SERIES
EITHER A NUMBER OR LETTER ESTABLISHED FOR EACH PRODUCT MODEL

DIGIT 2 COMPRESSOR TYPE
A = STANDARD AIR COOLED
D = DISCUS REFRIGERANT COOLED
R = STANDARD REFRIGERANT COOLED
T = TWO STAGE
W = STANDARD WATER COOLED

A DIGIT (e.g. 4R3) REPRESENTS THE COMPRESSOR FAMILY SERIES AND INDICATES TANDEM COMPRESSOR

DIGIT 3 DISPLACEMENT AND VALVE PLATE
A LETTER ONLY, ARBITRARILY ASSIGNED FOR EACH DIFFERENT DISPLACEMENT VALVE PLATE COMBINATION WITHIN ANY ONE FAMILY SERIES

DIGIT 4 MODEL VARIATION
A NUMBER OR LETTER ASSIGNED TO INDICATE MAJOR VARIATIONS WITHIN ANY ONE FAMILY SERIES

DIGITS 5, 6, 7, & 8 TYPICAL MOTOR RATING
DIGIT 8 IS ALSO USED FOR OIL IDENTIFIER
"E" = POLYOL ESTER, "L" = SHIPPED WITHOUT OIL

CODE	NOMINAL HP	CODE	NOMINAL HP
0033	1/3	1000	10
0050	1/2	1015	10
0051	1/2	1200	12
0075	3/4	1500	15
0100	1	2000	20
0150	1-1/2	2200	22
0200	2	2500	25
0210	2	2700	27
0300	3	3000	30
0310	3	3500	35
0311	3	4000	40
0400	4	5000	50
0500	5	6000	60
0505	5	TANDEM	
0600	6	7000	70
0750	7-1/2	8000	80
0765	7-1/2	1110	100
0900	9	1120	120

DIGITS 12, 13 & 14 BILL OF MATERIAL - PRODUCT VARIATIONS
100 = STD. COMP. USED IN COPELAND COND. UNITS.
200 = STD. COMP. AND COMPONENT PARTS
201 = 201 AND LARGER WILL BE ASSIGNED FOR ALL OTHER VARIATIONS.
800 = STD. REPLACEMENT COMPRESSOR AND COMPONENT.
801 = STD. REPLACEMENT COMPRESSOR AND COMPONENT.
120 VOLT CONTROL.

DIGIT 11 TYPICAL ELECTRICAL CODES

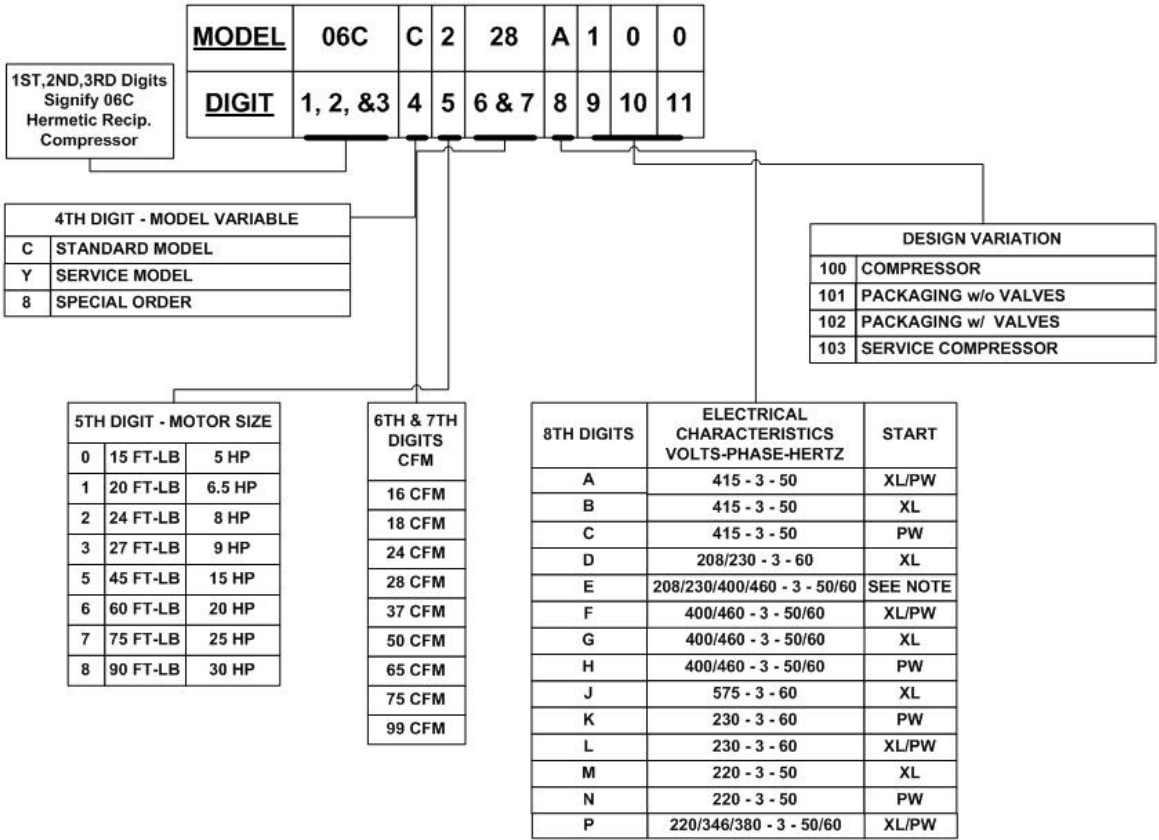
CODE	60 Hz.	50 Hz.	CODE	60 Hz.	50 Hz.
A	115-1	100-1	R		200/240-3
B	230-1	200-1	S		220-1
C	208/230-3	200/220-3	T		200-1
D	460-3	380/420-3	U	200-3	
E	575-3	500-3	V	208/230-1	200/220-1
F		115-1	W		200/220-3
G		230-1	X	MISC. AC RATINGS	
H	208-1	200-1	Y		500-3
I		208/230-1	Z		220/240-1
K	208/230/460-3	200/380/400-3	3	200-1	200-1
L		210/240/380-3	4	100-1	100-1
M		380/420-3	5	200/230-3	
N	230/460-3	200/400-3	6	230-3	
O	ALL DC RATINGS		7	383	346-3
P		200/380-3	8	200/220-380-3	200/346-3

DIGIT 10 COMPRESSOR MOTOR PROTECTION

CODE	TYPE PROTECTION
A	EXTERNAL INHERENT PROTECTION. ONE PROTECTOR, (LINE BREAK). USE WITH CONTACTOR.
F	INTERNAL INHERENT PROTECTION. ONE PROTECTOR, (LINE BREAK). USE WITH CONTACTOR.
H	INTERNAL THERMOSTAT(S) AND EXTERNAL SUPPLEMENTARY PROTECTOR(S) MT'D ON COMPRESSOR. (TWO FOR 3 PH., ONE FOR SINGLE PH.). USE WITH CONTACTOR.
L	INTERNAL THERMOSTAT(S) AND THREE EXTERNAL SUPPLEMENTARY PROTECTORS MT'D ON COMPRESSOR. USE WITH CONTACTOR.
S	INTERNAL THERMAL PROTECTION. ELECTRONIC SENSORS AND CONTROL MODULE EXTERNAL. USE WITH CONTACTOR.

COMPRESSOR MOTOR TYPE

CODE	PHASE	DESCRIPTION
C	1	CAPACITOR RUN - CAPACITOR START
I	1	INDUCTION RUN - CAPACITOR START
E	3	WYE (STAR) DELTA
F	3	SIX LEAD PART WINDING OR ACROSS THE LINE EXCEPT 575 VOLT
T	3	MISC. THREE PHASE SINGLE VOLTAGE THREE LEAD DUAL VOLTAGE NINE LEAD 575 VOLT 60 cy/500 VOLT 50 cy UNDER 20 HP 3 LEAD, 20 HP AND UP 6 LEAD PART WINDING



NOTE:
CAN BE USED 208/230/400/460 - 3 - 50/60 XL
OR
208-230 - 3 - 50/60 PW

MODEL NUMBER	06E	T	2	75	3	6	A
DIGIT	123	4	5	6/7	8	9	10

1ST, 2ND, 3RD Digits Signify 06E Hermetic Recip. Compressor

4TH DIGIT		4TH DIGIT UNLOADER VARIABLE	
SUCTION CUTOFF UNLOADING	2	A	NO UNLOADERS
	3	B	ONE STEP ELECTRIC
	4	C	TWO STEP ELECTRIC
	5	D	ONE STEP PRESSURE
	6	E	TWO STEP PRESSURE
	7	F	NO UNLOADERS
	8	J	ONE UNLOADER - ELECTRIC
	9	K	TWO UNLOADERS - ELECTRIC
		L	ONE UNLOADER - PRESSURE
		N	TWO UNLOADER - PRESSURE
	G	NO UNLOADERS	REVERSE CENTER HEAD ON 6 CYL.
	P	ONE UNLOADER - ELECTRIC	
	U	TWO UNLOADERS - ELECTRIC	CPRSR WITH CONT. BOX
	V	ONE UNLOADER - PRESSURE	
	W	TWO UNLOADERS - PRESSURE	
	M	REFRIGERATION DUTY (MEDIUM TEMP)	
	R	REFRIGERATION DUTY (LOW TEMP)	
	T	SERVICE CMPSR w/ ONE BLOCKED SUCTION CUTOFF UNLOADER HEAD. REPLACES 2, 3, 4, 5, 6, 7, 8, & 9	
	X	SERVICE COMPRESSOR BYPASS REPLACES A, B, C, D, E, F, J, K, L, & N	
	Y	SERVICE CPRSR - REFRIG REPLACES R	
	Z	SERVICE CPRSR MED. TMP. REPLACES M	

10TH DIGIT PACKAGING VARIABLE	
0	MODEL
1	PACKAGE
9	PACKAGE
A	SHIPPED W/O OIL

9TH DIGIT SERVICE DESIGN VARIABLES	
NEW COMPRESSORS	
0	OEM MODEL
1	A/C MODELS
2	OLD DESIGN REFRIGERATION VALVE PLATES
6	A/C MODELS
8	OEM W/ DGT AND OIL CHARGE
9	CEMAK MODEL
SERVICE COMPRESSORS	
2	NEW MANUFACTURED A/C
4	REMANUFACTURED LOW TEMP
6	REMANUFACTURED A/C
7	REMANUFACTURED MEDIUM TEMPERATURE

5TH DIGIT USAGE	
0	LIGHT DUTY COMPRESSOR OR COMPRESSOR UNIT W/OIL
1	MEDIUM DUTY COMPRESSOR W/ OIL
2	HEAVY DUTY COMPRESSOR W/ OIL
3	HFC LIGHT DUTY COMPRESSOR W/O OIL
4	HFC MEDIUM DUTY COMPRESSOR W/O OIL
5	HFC HEAVY DUTY COMPRESSOR W/O OIL
7	1 SUCTION CUT OFF UNLOADER NO OIL (ER, EM ONLY)
8	SPECIAL ORDER

8TH DIGIT ELECTRIC	
0	208/230 -3 60
1	575 - 3 - 60
3	208/230/460 - 3 - 50/60
4	200 - 3 - 60
5	230 - 3 - 60
6	400/460 - 3 - 50/60
8	230 - 3 - 50
9	220/380 - 3 - 60

6TH & 7TH DIGIT COMPRESSOR SIZE				
NO. CYL	STD. PRODUCT	LONG STROKE STD. CLEARANCE	LONG STROKE HIGH CLEARANCE	SHORT STROKE
4	50 CFM	66 CFM	60 CFM	----
6	75 CFM	99 CFM	----	65CFM

MODEL	06D	A	3	37	6	B	A	12	0	0
DIGIT	1, 2, & 3	4	5	6 & 7	8	9	10	11 & 12	13	14

1ST, 2ND, 3RD Digits Signify 06D Hermetic Reclp. Compressor

4TH DIGIT UNLOADER VARIABLE	
A	NO HOT BY-PASS UNLOADERS
B	ONE STEP ELECTRIC HOT GAS
C	TWO STEP ELECTRIC HOT GAS
D	ONE STEP PRESSURE HOT GAS
E	TWO STEP PRESSURE HOT GAS
F	ONE STEP ELECTRIC - SUCTION CUT OFF
G	TWO STEP ELECTRIC - SUCTION CUT OFF
M	MED. TEMP. REPLACES ALL 'A's
N	TWO SHAVED HEADS (SPECIAL ORDER)
R	REFRIGERATION
W	A/C 2 PLUGGED HEADS REPLACES ALL C & E COMPRESSOR
X	ONE PLUGGED HEAD, REPLACES ALL B, C, D, & E COMPRESSORS
Y	REFRIGERATION 2 PLUGGED HEADS (SPECIAL ORDER)
S	HI-EFF. SERV. MOD. w/1 BLOCKED UNLOADER HEAD, REPLACES F, G, H, & J COMPRESSORS
H	ONE STEP PRESSURE - SUCTION CUT OFF
J	TWO STEP PRESSURE - SUCTION CUT OFF

13TH DIGIT	SUCTION CUT-OFF UNLOADING DESIGNATION for 06DR/DM COMPRESSORS
0	ORIGINAL DESIGN A/C & REFRIG.
1	2ND GENERATION REFRIG. CPRSR w/ NEW VALVE PLATE
2	MED. RANGE A/C CPRSR WITH REFRIG. CHARACTERISTICS
3	LOW CLEARANCE VOLUME
4	SUCTION CUT-OFF ELECTRIC UNLOADERS
5	HFC MODEL - NO OIL
6	HFC MODEL - WITH OIL
7	1 ELECTRIC UNLOADER (DR & DM ONLY)

14TH DIGIT	PACKAGING VARIABLE
0	SERVICE UNIT SINGLE PACK BASE UNIT UNPACKAGES
1	SINGLE PACK - DOMESTIC LESS SERVICE VALVE
2	MULTI-PACK - DOMESTIC
3	EXPORT - 1 UNIT
4	MULTI - PACK
5	PALLETIZED
6	GOVERNMENT PACK
7	SINGLE PACK - DOMESTIC WITH SERVICE VALVE
8	MATCHED COMPONENTS - CONSISTS OF SEPARATE EXPORT PACKAGE PIECES
9	DOMESTIC MULTI-PACK & McMINNVILLE
A	HFC PACKAGE - SINGLE PACK w/o VALVES

11 & 12 DIGITS	ELECTRICAL CHARACTERISTICS VOLTS-PHASE-HERTZ	START
00		
01	575 - 3 - 60	XL
02	200 - 1 - 60	XL
03	230 - 1 - 60	XL
04	200 - 3 - 60	XL
05	230 - 3 - 60	XL
06	400/460 - 3 - 50/60	XL
07	230 - 1 - 50	XL
08	220 - 3 - 50	XL
09	SEE NOTE 3	XL
10	230 - 2 - 60	XL
11	480 - 3 - 60	XL
12	208/230 - 3 - 60	XL
13	380 - 3 - 60	XL
14	200 - 3 - 60	P/W
15	230 - 3 - 60	P/W
18	220 - 3 - 50	P/W
19	230/460 - 3 - 60	XL
21	575 - 3 - 60	XL
26	400/460 - 3 - 50/60	XL
31	575 - 3 - 60	XL
32	208/230 - 3 - 60	XL
33	208/230 - 1 - 50	XL
34	220 - 3 - 50	XL
36	400/460 - 3 - 50/60	XL
38	400/460 - 3 - 50/60	P/W
39	400/460 - 3 - 50/60	XL

5TH DIGIT VARIABLE	MOTOR SIZE		
	2 CYL	4 CYL	6 CYL
0		3 HP	
1	2 HP		5HP
2			24 LBFT
3		5 HP	27 LBFT
4	3 1/2 HP		
5		5 1/2 HP	38 LBFT
6			
7		5 HP	20 LBFT
8	3 HP	20 LBFT	24 LBFT
9			

8TH DIGIT	KEY NO. SIGNIFICANCE
0	PRODUCT MOD. w/ T-BOX
1	PKG. CPRSR. & CONT. BOX
2	OEM A/C COMPRESSOR
3	TYLER MODELS
4	TECUMSEH OEM MODELS
5	FUTURE USE
6	REMAN. SERVICE CPRSR
7	NEWMAN SERVICE CPRSR
8	SPECIAL ORDER ONLY
9	SERV SPEC. OR SEE NOTE 1

10TH DIGIT	OVERLOAD & THERMOSTAT. VARIABLE SEE NOTE 2		
	EXTL. OVLD.	INTL. T' STAT.	DESCRIPTION
A	YES	YES	
B	YES	NO	
C	NO	YES	
D	NO	NO	
E	YES	YES	1ST OVLD. VARIATION
F	YES	NO	1ST OVLD. VARIATION
G	YES	YES	MANUAL RESET OVLD.
H	NO	YES	TECUMSEH SERV. MOD.

6TH & 7TH DIGITS CFM	CRANKCASE ASSEMBLY NO.	CYLINDER BORE
07	6D20-249	1 13/16
08	6D23-249	2
09	6D23-249	2
13	6D48-249	2
16	6D48-249	2
18	6D48-249	2
20	6D48-249	2
24	6D68-259	2
28	6D75-249	2
37	6D75-249	2

NOTES:
 1. SPECIAL ORDER SERVICE COMPRESSOR FOR BRYANT MAY BE PROCESSED AS "9" NAMEPLATED "8" (8TH DIGIT)
 2. SERVICE MODELS WITH "C" IN THE 10TH DIGIT REPLACE ALL "A", "C", AND "E" ORIGINAL EQUIPMENT MODELS AND "D" SERVICE MODELS REPLACE "8" AND "9" MODELS. TERMINAL BOXES AND OVERLOADS ARE TO BE RE-USED OR REPLACED IF DAMAGED.
 3. "09" IN THE 11TH & 12TH DIGITS HAS BEEN USED IN THE PAST FOR 400-3-50 MOTORS AND IS NO LONGER USED. SO AS TO AVOID CONFUSION IN SERVICE THESE DIGITS ARE TO BE LEFT ON THIS CHART BUT ARE NOT TO BE RE-USED.

9TH DIGIT	SUCTION SERVICE VALVE VARIABLES		
	LOC. OF VALVE	M.E. COV. DESCR.	VALVE ORIENTATION
A	MOTOR END	2 BOLT	30°
B	MOTOR END	4 BOLT	30°
C	MOTOR END	2 BOLT	90°
D	MOTOR END	4 BOLT	90° or 180°
E	MOTOR END	2 BOLT	150°
F	PUMP END	PLAIN	270°
G	PUMP END	PLAIN	225°

