

SERVICE GUIDE

06D/06E/06CC
COMPRESSORS



Carlyle[®]

3.0 — COMPRESSOR AND PARTS DATA

3.1 — 06D Series Compressors - Physical Data (Page 1 of 2)

CARRIER/ CARLYLE MODEL NUMBER	STANDARD SERVICE REPLACEMENT MODEL	SUCTION TEMPERATURE RANGE ... (a)									
		R-404A/507, R-448A and R-449A				R-134a				R-407A, R-407C and R-407F	
		Deg. F	Deg. C	Deg. F	Deg. C	Deg. F	Deg. C	Deg. F	Deg. C	Deg. F	Deg. C
06DM8080...	06DM8086...	0 to 50	-18 to 10	—	—	—	—	0 to 55	-18 to 13		
06DR1090...	06DR1096...(b)	-40 to 0	-40 to -18	-10 to 55	-23 to 13	-35 to 0	-37 to -18				
06DR0130...	06DR0136...(c)	-40 to 0	-40 to -18	-10 to 55	-23 to 13	-35 to 0	-37 to -18				
06DM3130...	06DM3136...(c)	0 to 50	-18 to 0	—	—	0 to 55	-18 to 7				
06DR3160...	06DR3166...(c)	-40 to 25	-40 to -4	-10 to 55	-23 to 13	-35 to 25	-37 to -4				
06DM3160...	06DM3166...(c)	0 to 25	-18 to -4	-10 to 55	-23 to 13	0 to 55	-18 to 7				
06DR7180...	06DR7186...	-40 to 0	-40 to -18	-10 to 55	-23 to 13	-35 to 0	-37 to -18				
06DA8182...	06DA8186...	0 to 50	-18 to 10	—	—	0 to 55	-18 to 13				
06DR8200...	06DR8206...	-40 to 40	-40 to 4	-10 to 55	-23 to 13	-40 to 25	-40 to -4				
06DR7240...	06DR7246...	-40 to 25	-40 to 4	-10 to 55	-23 to 13	-40 to 25	-40 to -4				
06DA8242...	06DA8246...	0 to 50	-18 to 10	—	—	0 to 55	-18 to 13				
06DR7250...	06DR7256...	-40 to 25	-40 to 4	-10 to 55	-23 to 13	-40 to 25	-40 to -4				
06DA8252...	06DA8256...	0 to 50	-18 to 10	—	—	0 to 55	-18 to 13				
06DR2280...	06DR2286...	-40 to 25	-40 to 4	-10 to 55	-23 to 13	-40 to 25	-40 to -4				
06DA3282...	06DA3286...	0 to 50	-18 to 10	—	—	0 to 55	-18 to 13				
06DR3370...	06DR3376...	-40 to 25	-40 to 4	-10 to 55	-23 to 13	-30 to 25	-40 to -4				
06DM3370...	06DM3376...	0 to 25	-18 to 10	-10 to 55	-23 to 13	0 to 45	-18 to 7				
06DA5342...	06DA5376...	0 to 50	-18 to 10	—	—	0 to 55	-18 to 13				
06DR5410...	06DR5416...	-40 to 25	-40 to 4	—	—	-40 to 25	-40 to -4				

(a) Approximate condensing temperature ranges. CHECK ACTUAL PERFORMANCE DATA FOR ANY NEW APPLICATION ESPECIALLY AT OR NEAR UPPER OR LOWER LIMIT: Low Temperature=70 to 120 F (21 to 49 C), Medium Temperature=80 to 130 F (27 TO 54 C) and High Temperature (R-407A, C, F only) = 80 to 150 F (27 to 66 C).

(b) The 06DR 109 single phase compressor has a 3 HP (2.2 kW) motor.

(c) Service compressors have dual suction service valve locations, one on motor end and one near the oil pump.

3.1 — 06D Series Compressors - Physical Data (Page 2 of 2)

CARRIER/ CARLYLE MODEL NUMBER	MOTOR SIZE		DISPLACEMENT AT 1750 RPM				NO. OF CYL	BORE		STROKE		OIL CHARGE		NET WEIGHT	
	HP	kW	CFM	L/M	CFH	L/H (1,000)		in.	mm	in.	mm	Pints	Liters	Lb	Kg
06DM8080...	3	2.2	8.0	227	480	13.59	2	50.8	1 1/4	31.8	3	1.4	160	73	
06DR1090...	2 (b)	1.5	8.7	246	522	14.78	2	50.8	1 3/8	34.9	3	1.4	190	73	
06DR0130...	3	2.2	13.0	368	786	22.26	4	50.8	1	25.4	4 1/2	2.1	230	104	
06DM3130...	5	3.7	13.0	368	786	22.26	4	50.8	1	25.4	4 1/2	2.1	235	107	
06DR3160...	5	3.7	15.9	450	954	27.01	4	50.8	1 1/4	31.8	4 1/2	2.1	235	107	
06DM3160...	5	3.7	15.9	450	954	27.01	4	50.8	1 1/4	31.8	4 1/2	2.1	235	107	
06DR7180...	5	3.7	18.3	518	1100	31.09	4	50.8	1 7/16	36.5	5 1/2	2.6	250	113	
06DA8182...	6 1/2	4.9	18.3	518	1100	31.09	4	50.8	1 7/16	36.5	5 1/2	2.6	250	113	
06DR8200...	6 1/2	4.9	20.0	566	1200	33.00	4	50.8	1 9/16	39.7	5 1/2	2.6	260	118	
06DR7240...	6 1/2	4.9	23.9	677	1435	40.60	6	50.8	1 1/4	31.8	8	3.8	310	141	
06DA8242...	7 1/2	5.6	23.9	677	1435	40.60	6	50.8	1 1/4	31.8	8	3.8	310	141	
06DR7250...	6 1/2	4.9	23.9	677	1435	40.60	6	50.8	1 1/4	31.8	8	3.8	310	141	
06DA8252...	7 1/2	5.6	23.9	677	1435	40.60	6	58.8	1 1/4	31.8	8	3.8	315	143	
06DR2280...	7 1/2	5.6	28.0	793	1680	47.57	6	50.8	1 15/32	37.3	8	3.8	315	143	
06DA3282...	10	7.5	28.0	793	1680	47.57	6	50.8	1 15/32	37.3	8	3.8	315	143	
06DR3370...	10	7.5	37.1	1050	2225	63.03	6	50.8	1 15/16	49.2	8	3.8	325	147	
06DM3370...	10	7.5	37.1	1050	2225	63.03	6	50.8	1 15/16	49.2	8	3.8	325	147	
06DA5372...	15	11.2	37.1	1050	2225	63.03	6	50.8	1 15/16	49.2	8	3.8	325	147	
06DR5410...	15	11.2	41.0	1161	2460	69.66	6	50.8	2 5/32	54.6	8	3.8	325	147	

LEGEND

CFH - Cubic ft per hour

L/H - Liters per hour

L/M - Liters per minute

3.2 — 06E Series Compressors - Physical Data (Page 1 of 2)

CARRIER/ CARLYLE MODEL NUMBER (d)	STANDARD SERVICE REPLACEMENT MODEL	SUCTION TEMPERATURE RANGE ... (a)					
		R-404A/507, R-448A and R-449A		R-134a		R-407A, R-407C and R-407F	
		Deg. F	Deg. C	Deg. F	Deg. C	Deg. F	Deg. C
06ER450...	06EY450...	-40 to 0	-40 to -18	-10 to 55	-23 to 13	-35 to 0	-37 to -18
06EM450...	06EZ450...	0 to 25	-18 to -4	-10 to 55	-23 to 13	0 to 45	-18 to 7
06EA550...	06ET250...	0 to 50	-18 to 10	—	—	0 to 55	-18 to 13
06ER166... (e)	06EY466...	-40 to 0	-40 to 18	-10 to 55	-23 to 13	-35 to 0	-37 to -18
06EM266... (e)	06EZ266...	0 to 45	-18 to 7	-10 to 55	-23 to 13	0 to 50	-18 to 10
06ER465...	06EY465...	-40 to 0	-40 to -18	-10 to 55	-23 to 13	-35 to 0	-37 to -18
06EA565...	06ET265...	0 to 50	-18 to 10	-10 to 55	-23 to 13	0 to 50	-18 to 13
06ER475...	06EY475...	-40 to 0	-40 to -18	-10 to 55	-23 to 13	-35 to 0	-37 to -18
06EM475...	06EZ475...	0 to 40	-18 to 4	-10 to 55	-23 to 13	0 to 45	-18 to 7
06EA575...	06ET275...	0 to 50	-18 to 10	—	—	0 to 55	-18 to 13
06ER399...	06EY399...	-40 to 0	-40 to -18	-10 to 55	-23 to 13	-35 to 0	-37 to -18
06EM499...	06EZ499...	0 to 40	-18 to 4	-10 to 55	-23 to 13	0 to 45	-18 to 7
06EA599...	06ET299...	0 to 50	-18 to 10	—	—	0 to 55	-18 to 13

(a) Approximate condensing temperature ranges. CHECK ACTUAL PERFORMANCE DATA FOR ANY NEW APPLICATION ESPECIALLY AT OR NEAR UPPER OR LOWER LIMIT: Low Temperature=70 to 120 Deg.F. (21 to 49 C), Medium Temperature=80 to 130 F (27 to 54 C) and High Temperature (R-407A, C, F only) = 80 to 150 F (27 to 64 C).

(d) The models shown are new oil-less models. Models with oil had a 0, 1, or 2 in the 5th digit of the model number.

(e) The 06ER166 and 06EM266 models are no longer built new, but service replacements are built and available. For new applications, the 06ER166 and 06EM266 models have been replaced by the 06ER465 and 06EA565.

3.2 — 06E Series Compressors - Physical Data (Page 2 of 2)

CARRIER/ CARLYLE MODEL NUMBER (d)	MOTOR SIZE		DISPLACEMENT AT 1750 RPM				NO. OF CYL	BORE		STROKE		OIL CHARGE		NET WEIGHT	
	HP	kW	CFM	L/M	CFH	L/H (1,000)		in.	mm	in.	mm	Pints	Liters	Lb	Kg
06ER450...	15	11.2	50.3	1424	3016	85.45	4	2 11/16	68.3	2 3/16	55.6	14	6.6	430	195
06EM450...	15	11.2	50.3	1424	3016	85.45	4	2 11/16	68.3	2 3/16	55.6	14	6.6	430	195
06EA550...	20	14.9	50.3	1424	3016	85.45	4	2 11/16	68.3	2 3/16	55.6	14	6.6	430	195
06ER166... (e)	20	14.9	66.0	1869	3960	112.1	4	2 11/16	68.3	2 7/8	73.0	14	6.6	430	195
06EM266... (e)	25	18.6	66.0	1869	3960	112.1	4	2 11/16	68.3	2 7/8	73.0	14	6.6	430	195
06ER465...	20	14.9	68.3	1934	4096	116.0	6	2 11/16	68.3	1 63/64	50.4	19	9.0	480	218
06EA565...	25	18.6	68.3	1934	4096	116.0	6	2 11/16	68.3	1 63/64	50.4	19	9.0	485	220
06ER475...	20	14.9	75.4	2135	4524	128.1	6	2 11/16	68.3	2 3/16	55.6	19	9.0	490	222
06EM475...	25	18.6	75.4	2135	4524	128.1	6	2 11/16	68.3	2 3/16	55.6	19	9.0	490	222
06EA575...	30	22.4	75.4	2135	4524	128.1	6	2 11/16	68.3	2 3/16	55.6	19	9.0	490	222
06ER399...	30	22.4	99.0	2803	5940	168.2	6	2 11/16	68.3	2 7/8	73.0	19	9.0	500	227
06EM499...	35	26.1	99.0	2803	5940	168.2	6	2 11/16	68.3	2 7/8	73.0	19	9.0	505	229
06EA599...	40	29.8	99.0	2803	5940	168.2	6	2 11/16	68.3	2 7/8	73.0	19	9.0	520	236

LEGEND

CFH - Cubic ft per hour

L/H - Liters per hour

L/M - Liters per minute

3.3 — 06CC Series Compressors - Physical Data (Page 1 of 2)

CARRIER/ CARLYLE MODEL NUMBER	STANDARD SERVICE REPLACEMENT MODEL	SUCTION TEMPERATURE RANGE ...(f)					
		R-404A/507, R448-A and R-449A		R-134a		R-407A, R-407C and R-407F	
		Deg. F (h)	Deg. C (h)	Deg. F	Deg. C	Deg. F	Deg. C
06CC016... (g)	06CY016...	-40 to -10	-40 to -23	(i)	(i)	-40 to -10	-40 to -23
06CC017...	06CY017...	-40 to -10	-40 to -23	(i)	(i)	-40 to -10	-40 to -23
06CC018... (g)	06CY018...	-40 to -10	-40 to -23	(i)	(i)	-40 to -10	-40 to -23
06CC124...	06CY124...	-60 to -10	-51 to -23	(i)	(i)	-40 to -10	-40 to -23
06CC125...	06CY125...	-60 to -10	-51 to -23	(i)	(i)	-40 to -10	-40 to -23
06CC228...	06CY228...	-60 to -10	-51 to -23	(i)	(i)	-40 to -10	-40 to -23
06CC337...	06CY337...	-60 to -10	-51 to -23	(i)	(i)	-40 to -10	-40 to -23
06CC550... (g)	06CY550...	-40 to -10	-40 to -23	(i)	(i)	-40 to -10	-40 to -23
06CC665...	06CY665...	-60 to -10	-51 to -23	(i)	(i)	-40 to -10	-40 to -23
06CC675...	06CY675...	-60 to -10	-51 to -23	(i)	(i)	-40 to -10	-40 to -23
06CC899...	06CY899...	-60 to -10	-51 to -23	(i)	(i)	-40 to -10	-40 to -23

(f) Approximate condensing temperature ranges. CHECK ACTUAL PERFORMANCE DATA FOR ANY NEW APPLICATION, ESPECIALLY AT OR NEAR UPPER OR LOWER LIMIT: Low Temperature = 70 to 130 F (21 to 55 C).

(g) To provide a 6-cylinder body needed for Compound Cooling, the normal 4-cylinder model 16, 18 and 50 Cfm compressors are built using the 24, 18, and 65 Cfm 6-cylinder bodies respectively. The

actual Cfm reduction is achieved by modifying the running gear.

(h) R404A/R-507 CANNOT be used in the small "D" body size Compound Cooling compressors (16 to 37 Cfm), manufactured prior to Serial No. 2099J.

(i) R-134a CANNOT be used in any Compound Cooling compressor.

3.3 — 06CC Series Compressors - Physical Data (Page 2 of 2)

CARRIER/ CARLYLE MODEL NUMBER	MOTOR SIZE		DISPLACEMENT AT 1750 RPM				NO. OF CYL	BORE		STROKE		OIL CHARGE		NET WEIGHT		BODY SIZE
	HP	kw	CFM	L/M	CFH	L/H (1,000)		in.	mm	in.	mm	Pints	Liters	Lb	Kg	
06CC016... (g)	5	3.7	15.9	450	954	27.01	6	2	50.8	1 1/4	31.8	9.5	4.5	330	150	D
06CC017...	5	3.7	15.9	450	954	27.01	6	2	50.8	1 1/4	31.7	9.5	4.5	330	150	D
06CC018... (g)	5	3.7	18.3	518	1100	31.09	6	2	50.8	1 15/32	37.3	9.5	4.5	325	147	D
06CC124...	6 1/2	4.9	23.9	677	1435	40.60	6	2	50.8	1 1/4	31.8	9.5	4.5	335	152	D
06CC125...	6 1/2	4.9	23.9	677	1435	40.60	6	2	50.8	1 1/4	31.8	9.5	4.5	330	150	D
06CC228...	7 1/2	5.6	28.0	793	1680	47.57	6	2	50.8	1 15/32	37.3	9.5	4.5	340	154	D
06CC337...	10	7.5	37.1	1050	2225	63.03	6	2	50.8	1 15/16	49.2	9.5	4.5	345	156	D
06CC550... (g)	15	11.2	50.3	1424	3016	85.45	6	2 11/16	68.3	1 63/64	50.4	19	9.0	545	247	E
06CC665...	20	14.9	68.3	1934	4096	116.0	6	2 11/16	68.3	1 63/64	50.4	19	9.0	555	252	E
06CC675...	20	14.9	75.4	2135	4524	128.1	6	2 11/16	68.3	2 3/16	55.6	19	9.0	555	252	E
06CC899...	30	22.4	99.0	2803	5940	168.2	6	2 11/16	68.3	2 7/8	73.0	19	9.0	580	263	E

LEGEND

CFH - Cubic ft per hour

L/H - Liters per hour

L/M - Liters per minute

R-22 APPROXIMATE INTERSTAGE PRESSURE ± 10 psi (0.7 BAR) WITH SUBCOOLER

Saturated Suction Temp., F (C)	Suction Pressure PSIG (BAR)	Saturated Condensing Temperature, F (C)									
		60 (16)	70 (21)	80 (27)	90 (32)	100 (38)	110 (43)	120 (49)	130 (54)		
		Condensing Pressure, PSIG (BAR)									
		101.6 (8.02)	121.4 (9.39)	143.6 (10.92)	168.4 (12.63)	195.9 (14.52)	226.4 (16.63)	259.9 (18.94)	296.8 (21.48)		
-60 (-51)	11.9* (0.611)	17 (2.19)	20 (2.39)	23 (2.60)	26 (2.81)	28 (2.94)	31 (3.15)	35 (3.43)	38 (3.63)		
-55 (-48)	9.2* (0.702)	20 (2.39)	23 (2.60)	25 (2.73)	29 (3.01)	32 (3.22)	35 (3.42)	38 (3.63)	42 (3.91)		
-50 (-45)	6.1* (0.807)	22 (2.53)	25 (2.73)	28 (2.94)	32 (3.22)	35 (3.42)	38 (3.63)	42 (3.91)	46 (4.19)		
-45 (-43)	2.7* (0.922)	25 (2.73)	28 (2.94)	31 (3.15)	35 (3.42)	38 (3.63)	42 (3.91)	46 (4.19)	50 (4.46)		
-40 (-40)	0.5 (1.05)	27 (2.88)	31 (3.15)	34 (3.36)	38 (3.63)	42 (3.91)	46 (4.19)	50 (4.46)	54 (4.73)		
-35 (-37)	2.6 (1.19)	30 (3.08)	34 (3.36)	38 (3.63)	42 (3.91)	46 (4.19)	50 (4.46)	54 (4.73)	59 (5.08)		
-30 (-34)	4.9 (1.35)	33 (3.29)	37 (3.57)	41 (3.84)	45 (4.12)	50 (4.46)	54 (4.73)	59 (5.08)	63 (5.36)		
-25 (-32)	7.4 (1.52)	36 (3.50)	40 (3.77)	44 (4.05)	49 (4.39)	54 (4.73)	58 (5.01)	63 (5.36)	68 (5.70)		
-20 (-29)	10.1 (1.71)	39 (3.70)	43 (3.98)	48 (4.32)	53 (4.67)	58 (5.01)	63 (5.36)	68 (5.70)	73 (6.05)		
-15 (-26)	13.2 (1.92)	42 (3.91)	47 (4.26)	52 (4.60)	57 (4.94)	62 (5.29)	67 (5.63)	73 (6.05)	79 (6.46)		
-10 (-23)	16.5 (2.15)	46 (4.19)	50 (4.46)	56 (4.88)	61 (5.22)	66 (5.57)	72 (5.98)	78 (6.39)	84 (6.81)		

* Indicates Vacuum - Inches of Hg.

NOTE: 1 BAR = 100 kPa or 1 ATM (Atmosphere) Pressure.

R-407A APPROXIMATE INTERSTAGE PRESSURE ± 10 psi (0.7 BAR) WITH SUBCOOLER

Saturated Suction Temp., F (C)	Suction Pressure PSIG (BAR)	Saturated Condensing Temperature, F (C)									
		60 (16)	70 (21)	80 (27)	90 (32)	100 (38)	110 (43)	120 (49)	130 (54)		
		Condensing Pressure, PSIG (BAR)									
		125.2 (8.63)	148.8 (10.26)	175.3 (12.09)	204.8 (14.12)	237.6 (16.38)	273.9 (18.88)	314 (21.65)	357.9 (24.68)		
-60 (-51)	14.5* (0.52)	8 (1.5)	10 (1.7)	11 (1.8)	12 (1.8)	13 (1.9)	15 (2.0)	19 (2.3)	36 (2.8)		
-55 (-48)	11.9* (0.61)	10 (1.7)	13 (1.9)	14 (2.0)	15 (2.1)	17 (2.2)	20 (2.4)	24 (2.7)	41 (3.1)		
-50 (-45)	8.9* (0.71)	12 (1.9)	15 (2.1)	18 (2.2)	19 (2.3)	21 (2.5)	24 (2.7)	29 (3.0)	45 (3.5)		
-45 (-43)	5.6* (0.82)	15 (2.0)	19 (2.3)	21 (2.5)	23 (2.6)	26 (2.8)	29 (3.0)	34 (3.3)	51 (3.8)		
-40 (-40)	2.1* (0.94)	18 (2.2)	22 (2.5)	25 (2.7)	27 (2.9)	30 (3.1)	34 (3.3)	39 (3.7)	56 (4.2)		
-35 (-37)	1.0 (1.08)	21 (2.4)	26 (2.8)	29 (3.0)	32 (3.2)	35 (3.4)	39 (3.7)	44 (4.0)	62 (4.5)		
-30 (-34)	3.3 (1.24)	25 (2.7)	30 (3.1)	34 (3.4)	37 (3.6)	40 (3.8)	44 (4.1)	49 (4.4)	67 (4.9)		
-25 (-32)	5.7 (1.41)	29 (3.0)	35 (3.4)	39 (3.7)	43 (3.9)	46 (4.2)	50 (4.5)	55 (4.8)	73 (5.4)		
-20 (-29)	8.5 (1.60)	34 (3.4)	40 (3.8)	45 (4.1)	49 (4.4)	52 (4.6)	56 (4.9)	62 (5.3)	80 (5.8)		
-15 (-26)	11.5 (1.81)	40 (3.7)	46 (4.2)	51 (4.6)	55 (4.8)	59 (5.1)	63 (5.4)	69 (5.8)	87 (6.3)		
-10 (-23)	14.9 (2.04)	46 (4.2)	53 (4.7)	59 (5.1)	63 (5.4)	67 (5.6)	71 (5.9)	77 (6.3)	94 (6.8)		

* Indicates Vacuum - Inches of Hg.

NOTE: 1 BAR = 100 kPa or 1 ATM (Atmosphere) Pressure.

R-404A/R507 APPROXIMATE INTERSTAGE PRESSURE ± 10 psi (0.7 BAR) WITH SUBCOOLER

Saturated Suction Temp., F (C)	Suction Pressure, PSIG (BAR)	Saturated Condensing Temperature, F (C)																
		60 (16)	70 (21)	80 (27)	90 (32)	100 (38)	110 (43)	120 (49)	Condensing Pressure, PSIG (BAR)									
		129.7 (9.96)	153.6 (11.61)	180.3 (13.45)	210.2 (15.51)	243.5 (17.81)	280.6 (20.37)	321.9 (23.21)	180.3 (13.45)	210.2 (15.51)	243.5 (17.81)	280.6 (20.37)	321.9 (23.21)					
-60 (-51)	5.9* (0.814)	26 (2.81)	30 (3.08)	33 (3.29)	37 (3.57)	40 (3.77)	44 (4.05)	48 (4.32)	53 (4.67)	57 (4.94)	63 (5.36)	68 (5.70)	73 (6.05)	78 (6.39)	84 (6.81)	90 (7.22)	96 (7.63)	102 (8.05)
-55 (-48)	2.3* (0.929)	29 (3.01)	33 (3.29)	37 (3.57)	40 (3.77)	44 (4.05)	48 (4.32)	53 (4.67)	57 (4.94)	62 (5.29)	68 (5.70)	73 (6.05)	78 (6.39)	84 (6.81)	90 (7.22)	96 (7.63)	102 (8.05)	
-50 (-45)	0.9 (1.08)	33 (3.29)	37 (3.57)	40 (3.77)	45 (4.19)	49 (4.39)	53 (4.67)	58 (5.01)	62 (5.29)	67 (5.63)	73 (6.05)	78 (6.39)	84 (6.81)	90 (7.22)	96 (7.63)	102 (8.05)		
-45 (-43)	3.1 (1.23)	35 (3.43)	39 (3.70)	44 (4.05)	48 (4.32)	53 (4.67)	58 (5.01)	62 (5.29)	67 (5.63)	73 (6.05)	78 (6.39)	84 (6.81)	90 (7.22)	96 (7.63)	102 (8.05)			
-40 (-40)	5.5 (1.39)	39 (3.70)	44 (4.05)	48 (4.32)	53 (4.67)	58 (5.01)	62 (5.29)	67 (5.63)	73 (6.05)	78 (6.39)	84 (6.81)	90 (7.22)	96 (7.63)	102 (8.05)				
-35 (-37)	8.2 (1.58)	43 (3.98)	47 (4.26)	52 (4.60)	57 (4.94)	62 (5.29)	67 (5.63)	73 (6.05)	78 (6.39)	84 (6.81)	90 (7.22)	96 (7.63)	102 (8.05)					
-30 (-34)	11.1 (1.78)	46 (4.19)	51 (4.53)	56 (4.88)	61 (5.22)	67 (5.63)	73 (6.05)	78 (6.39)	84 (6.81)	90 (7.22)	96 (7.63)	102 (8.05)						
-25 (-32)	14.3 (2.00)	50 (4.46)	55 (4.81)	60 (5.15)	66 (5.57)	72 (5.98)	78 (6.39)	84 (6.81)	90 (7.22)	96 (7.63)	102 (8.05)							
-20 (-29)	17.8 (2.24)	54 (4.74)	59 (5.08)	65 (5.50)	71 (5.91)	77 (6.32)	83 (6.74)	89 (7.15)	95 (7.57)	102 (8.05)								
-15 (-26)	21.7 (2.51)	58 (5.01)	64 (5.43)	70 (5.84)	76 (6.26)	82 (6.67)	88 (7.08)	95 (7.57)	102 (8.05)									
-10 (-23)	25.8 (2.79)	62 (5.29)	68 (5.70)	74 (6.12)	81 (6.60)	88 (7.08)	95 (7.57)	102 (8.05)										

* Indicates Vacuum - Inches of Hg.

NOTE: 1 BAR = 100 kPa or 1 ATM (Atmosphere) Pressure.

4.0 — ELECTRICAL DATA

4.1 — 06DR 3 Phase Electrical Specifications

		NEW HIGH EFFICIENCY MODELS						OLD STANDARD EFFICIENCY MODELS					
Compressor Model*	Volt	MCC	Electrical Data			HP	Compressor Model*	Volt	MCC	Electrical Data		LRA	LRA
			RLA	LRA	Motor Winding Resistance (Ohms)					MAX (kW)	RLA		
06DR1090GA3150 GA3250 GA3650	575	4.4	2.8	21.3	7.0	2	06DR1090GC2100 GA1200 GA2600	575	3.9	-	21.3	21.3	
	208/230	12.1	7.6	53.3	1.1			12.1	12.1	8.6	8.6	53.3	53.3
	460	5.5	3.5	26.3	4.4			5.5	5.5	3.9	3.9	26.3	26.3
06DR0130CA3150 CA3250 CA3250 CA3650	575	7	4.5	28.4	5.0	3	06DR0130FA0100 FA0400 FA0500 FA0600	575	5.9	4.2	23	23	
	208/230	17.4	11.2	71	0.81			17	17	12.1	12.1	63.5	63.5
	208/230	17.4	11.2	71	0.81			14.8	14.8	10.6	10.6	57.5	57.5
460	8.7	5.6	35.5	3.2	3.2	7.4	7.4	5.3	5.3	28.8	28.8		
06DR3160CA3150 CA3250 CA3250 CA3600	575	10.8	6.9	40	3.3	5	06DR3160FA0110 FA0410 FA0510 FA0610	575	9.4	6.7	34.5	34.5	
	208/230	27	17.3	100	0.54			27	27	19.3	19.3	95	95
	208/230	27	17.3	100	0.54			23.5	23.5	16.8	16.8	86	86
460	13.5	8.6	50	2.1	2.1	11.8	11.8	8.4	8.4	43	43		
06DR7180DA3150 DA3250 DA3250 DA3650	575	10.8	6.9	40	3.3	5	06DR7180DA0110 DA0410 DA0510 DA0610	575	9.4	6.7	34.5	34.5	
	208/230	27	17.3	100	0.54			27	27	19.3	19.3	95	95
	208/230	27	17.3	100	0.54			23.5	23.5	16.8	16.8	86	86
460	13.5	8.6	50	2.1	2.1	11.8	11.8	8.4	8.4	43	43		
06DR8200DA3150 DA3250 DA3650	575	17.6	11.3	64	2.6	6.5	06DR8200DA0100 DA1200 DA0600	575	17.6	12.6	50	50	
	208/230	44	28.2	160	0.42			48.8	48.8	34.9	34.9	137	137
	460	22	14.1	80	1.7			22	22	15.7	15.7	62	62

NEW HIGH EFFICIENCY MODELS				OLD STANDARD EFFICIENCY MODELS							
Compressor Model*	Electrical Data			HP	Compressor Model*	Electrical Data					
	Volt	MCC	RLA			LRA	Motor Winding Resistance (Ohms)	MAX (kW)	Volts	MCC	RLA
06DR7420DA3150 DA3250 DA3650	575 208/230 460	17.6 44 22	11.3 28.2 14.1	64 160 80	2.6 0.42 1.7	9.8	06DR7240DA0100 DA1200 DA0600	575 208/230 460	17.6 48.8 22	12.6 34.9 15.7	50 137 62
06DR7250DA3150 DA3250 DA3650	575 208/230 460	17.6 44 22	11.3 28.2 14.1	64 160 80	2.6 0.42 1.7	9.8	06DR7240DA0100 DA1200 DA0600	575 208/230 460	17.6 48.8 22	12.6 34.9 15.7	50 137 62
06DR2280DA3150 DA3250 DA3650	575 208/230 460	22.2 55.5 27.8	14.2 35.6 17.8	79 198 99	2.0 0.31 1.3	12.8	06DR2280DA0100 DA1200 DA0600	575 208/230 460	22.2 55.5 27.8	15.9 43.9 19.9	62 170 77
06DR3370DA3150 DA3250 DA3650	575 208/230 460	25 62 31	16.0 39.7 19.9	91 228 114	1.7 0.26 1.0	16.5	06DR3370DA0100 DA1200 DA0600	575 208/230 460	25 69 31	17.9 49.3 22.1	69 191 86
06DR5410DA0150 DA1250 DA0650	575 208/230 460	32 89 40	20.5 57.1 25.6	61 266 120	1.2 0.18 0.72	20.7					

Not Applicable

LEGEND

LRA – Locked Rotor Amps

MCC – Maximum Continuous Current

RLA – Rated Load Amps

* The last two digits of the compressor model number may vary. See page 3.

NOTES:

1. RLA (rated load amps) value shown for new high efficiency models is $MCC \div 1.56$ - RLA. Use this recommended (and minimum) RLA value to determine nameplate stamping, minimum contactor sizing and wire sizing.

2. Compressor operating amps at any specific conditions can only be determined from a performance curve.

3. RLA values for 06D compressor protected by a calibrated circuit breaker will depend on must-trip value of circuit breaker.

4. Ohm values shown for resistance are approximate and shown for reference only. Motors from different vendors and motors of different efficiencies can differ up to 15% from data shown.

ALLOWABLE OPERATING RANGES

NOMINAL VOLTAGE	MAXIMUM	MINIMUM
208/230	254	187
460	529	414
575	661	518
400 (50 Hz)	460	342
200 (50 Hz)	230	180

4.2 — 06DM, DA 3 Phase Electrical Specifications

NEW HIGH EFFICIENCY MODELS										OLD STANDARD EFFICIENCY MODELS				
Compressor Model*	Electrical Data					HP	Compressor Model*	Electrical Data						
	Volt	MCC	RLA	LRA	Motor Winding Resistance (Ohms)			MAX (kW)	Volt	MCC	RLA	LRA		
06DM														
06DM8080GA3150	575	7	4.5	28.4	5.0	3	06DM8080GC0120	575	5.9	-	23			
GA3250	208/230	17.4	11.2	71	0.78		GC0430	200	17.0	12.1	63.5			
GA3250	208/230	17.4	11.2	71	0.78		GA0520	230	14.8	10.6	57.5			
GA3650	460	8.7	5.6	28.8	3.1		GA0620	460	7.4	5.3	28.8			
06DM3130CA3150	575	10.8	6.9	40	3.3	5	06DM3130FA0120	575	9.4	6.7	34.5			
CA3250	208/230	27	17.3	100	0.5		FA0420	200	27.0	19.3	95			
CA3250	208/230	27	17.3	100	0.5		FA0520	230	23.5	16.8	86			
CA3600	460	13.5	8.6	50	2.1		FA0620	460	11.8	8.4	43			
06DM3160CA3150	575	10.8	6.9	40	3.3	5	06DM3160FA0120	575	9.4	6.7	34.5			
CA3250	208/230	27	17.3	100	0.5		FA0420	200	27.0	19.3	95			
CA3250	208/230	27	17.3	100	0.5		FA0520	230	23.5	16.8	86			
CA3650	460	13.5	8.6	50	2.1		FA0620	460	11.8	8.4	43			
06DM3370DA3150	575	25	16.0	61	1.7	10	06DM3370DA0120	575	25	17.9	69			
DA3250	208/230	62	39.7	228	0.26		DA1220	208/230	69	49.3	191			
DA3650	460	31	19.9	114	1.0		DA0620	460	31	22.1	86			
06DA														
06DA8182AA3150	575	17.6	11.3	64	2.6	6.5	06DA8182AA0100	575	17.6	12.6	50			
AA3250	208/230	44	28.2	160	0.42		AA1200	208/230	48.8	34.9	137			
AA3650	460	22	14.1	80	1.7		AA0600	460	22	15.7	62			

NEW HIGH EFFICIENCY MODELS					OLD STANDARD EFFICIENCY MODELS							
Compressor Model*	Electrical Data				HP	Compressor Model*	Electrical Data					
	Volt	MCC	RLA	LRA			Motor Winding Resistance (Ohms)	MAX (kW)	Volt	MCC	RLA	LRA
06DA (continued)												
06DA8242BA3150	575	22.2	14.2	79	2.0	12.8	7.5	06DA8242BA0100	575	22.2	15.9	62
BA3250	208/230	55.5	35.6	198	0.31			BA1200	208/230	61.5	43.9	170
BA3650	460	27.8	17.8	99	1.3			BA0600	460	27.8	19.9	77
06DA8252BA3150	575	22.2	14.2	79	2.0	12.8	7.5		N/A	N/A	N/A	N/A
BA3250	208/230	55.5	35.6	198	0.31							
BA3650	460	27.8	17.8	99	1.3							
06DA3282BA3150	575-3-60	25	16.0	91	1.7	16.5	10	06DA3282BA0100	575	25	17.9	69
BA3250	208/230	62	39.7	228	0.26			BA1200	208/230	69	49.3	191
BA3650	460	31	19.9	114	1.0			BA0600	460	31	22.1	86
06DA5372BA0150	575	32	20.5	96	1.2	20.7	15	06DA5372BA0100	575	32	22.9	96
BA1250	208/230	89	57.1	266	0.18			BA1200	208/230	89	63.6	266
BA0650	460	40	25.6	120	0.72			BA0600	460	40	28.6	120

LEGEND

LRA – Locked Rotor Amps

MCC – Maximum Continuous Current

RLA – Rated Load Amps

* The last two digits of the compressor model number may vary. See page 3.

NOTES:

1. RLA (rated load amps) value shown for new high efficiency models is MCC ÷ 1.56 - RLA. Use this recommended (and minimum) RLA value to determine nameplate stamping, minimum contactor sizing and wire sizing.

2. Compressor operating amps at any specific conditions can only be determined from a performance curve.

3. RLA values for 06D compressor protected by a calibrated circuit breaker will depend on must-trip value of circuit breaker.

4. Ohm values shown for resistance are approximate and shown for reference only. Motors from different vendors and motors of different efficiencies can differ up to 15% from data shown.

ALLOWABLE OPERATING RANGES

NOMINAL VOLTAGE	MAXIMUM	MINIMUM
208/230	254	187
460	529	414
575	661	518
400 (50 Hz)	460	342
200 (50 Hz)	230	180

4.3 — 06DR, DM Single Phase Electrical Specifications

COMPRESSOR VARIABLE	COMPRESSOR MODEL			
	06DM8080CA3350*	06DR1090CA3350*	06DR0130CA3350*	06DM3130CA3350* 06DR3160CA3350*
Nominal Horsepower	3	3	3	5
Start Capacitor and PN	196 MFD @ 320 V P281-1896	196 MFD @ 320 V P281-1896	238 MFD @ 320 V P281-2166	238 MFD @ 320 V P281-2166
Run Capacitor and PN	35 MFD @ 440 V P291-3504	35 MFD @ 440 V P291-3504	40 MFD @ 440 V P291-4004	50 MFD @ 440 V P291-5004
Start Relay Data Hot Pick-Up Voltage and PN	220-24 V HN61KB021 or P283-9913	220-24 V HN61KB021 or P283-9913	260-280 V HN61KB022 or P283-9918	350-370 V P283-9912
Cold Pick-Up Voltage	208/239 V	208-239 V	239-268 V	328-356 V
Dropout Voltage	50-110 V	50-110 V	50-110 V	60-121 V
Coil Voltage	375 V	375 V	375 V	420 V
MCC	28	24	32.6	40
RLA	20	17.1	23.3	28.6
LRA	110	110	100	150
(Manufacturer Number) Common Overload	(8347A23-63) HN69GZ024	(8347A23-31) HN69GZ025	(8347A23-63) HN69GZ024	(8348A19-4) HN69GZ307
(Manufacturer Number) Start Overload	(8347A23-53) HN69GZ014	(8347A23-42) HN69GZ032	(8347A23-53) HN69GZ014	(8347A23-40) HN69GZ037

LEGEND

LRA – Locked Rotor Amps

MCC – Maximum Continuous Current

RLA – Rated Load Amps

* The last two digits of the compressor model number may vary. See page 3.

Information in shaded area is no longer available in standard factory production.

ALLOWABLE OPERATING RANGES

NOMINAL VOLTAGE	MAXIMUM	MINIMUM
208/230-1-60	254 V	187 V

4.4 — 06ER, EY 3 Phase Electrical Specifications

COMPRESSOR MODEL*	VOLT	MAX kW	HP	SEE NOTE 1				SEE NOTE 2		MOTOR WINDING RESISTANCE (Ohms)	SEE NOTE 3 Recommended Circuit Breaker Part No.	CIRCUIT BREAKER DATAT			SEE NOTE 4 RLA with Listed Breaker
				Maximum Must Trip Amps	Maximum RLA	LRA-XL	LRA-PW (first winding)	M.H.	M.T.			LRA			
													M.H.	M.T.	
06ER(1/4)50000 (1/4)50100 (1/4)50600 (1/4)50300	208/230			90	72	283	170	0.44	HH83XB626	78	90	250	64.3		
	575			38	31	98	59	2.8	XB634	29	33.5	97	23.9		
	460	22.0	15	46	36	142	85	1.8	XB695	40	46	150	33.9		
06ER(1/4)65000 (1/4)65100 (1/4)65600 (1/4)65300	208/230/460			90/46	72/36	283/142	170/85	0.44/0.22	XB626XB695	78/40	90/46	250/150	64.3/33.9		
	208/230			108	87	345	207	0.32	HH83XB625	91	104	350	74.3		
	575	25.3	20	45	36	120	72	2.2	XB422	33	38	124	27.1		
06ER(1/4)75000 (1/4)75100 (1/4)75600 (1/4)75300	460			54	44	173	104	1.3	XB606	42	49	175	35		
	208/230/460			108/54	87/44	345/173	207/104	0.32/0.16	XB625XB606	91/42	104/49	350/175	74.3/35		
	208/230			108	87	345	207	0.32	HH83XB625	91	104	350	74.3		
06ER(0/3)99000 (0/3)99100 (0/3)99600 (0/3)99300	575	25.3	20	54	36	120	72	2.2	XB422	33	38	124	27.1		
	460			109/54	87/44	345/173	207/104	1.3	XB606	42	49	175	35		
	208/230/460			168/84	135/68	506/253	304/152	0.32/0.16	XB625XB606	91/42	104/49	350/175	74.3/35		
06ER(0/3)99000 (0/3)99100 (0/3)99600 (0/3)99300	208/230			168	135	506	304	0.22	HH83XC539	142	163	507	116.4		
	575	39.1	30	65	52	176	106	1.3	XB683	50	58	168	41.4		
	460			84	68	253	152	0.88	XB609	65	76	274	54.3		
208/230/460			168/84	135/68	506/253	304/152	0.22/0.11	XC539XB609	142/67	163/76	507/274	116.4/54.3			

LEGEND

- LRA – Locked Rotor Amps
- MH – Must Hold Amps
- MT – Must Trip Amps
- PW – Part Winding (Start)
- RLA – Rated Load Amps
- XL – Across-the-Line (Start)

* The last two digits of the compressor model number may vary. See page 4. The fifth digit in () of the compressor model number represents models with or without oil. 0, 1, 2 signifies older models with oil; 3, 4, 5 signifies newer models without oil. See page 4.

† Refer to revised Bulletin 03T-2 for recommended motor protection.

NOTES:

1. Compressor must-trip (M.T.) amps and RLA values are maximum figures.
2. LRA values for PW second winding = 1/2 the LRA -XL value.
3. 3-Pole XL circuit breakers shown, other 3-Pole XL alternates and 6-Pole PW breakers available. Terminal lugs for circuit breakers available in package 06EA660152.
4. RLA value shown is determined by: circuit breaker must trip value \div 1.40. Use this recommended (and minimum) RLA value to determine name plate stamping, minimum contactor sizing, and wire sizing. **RECOMMENDED RLA FOR 06E COMPRESSORS EQUALS: MUST- TRIP (M.T.) OF CARLYLE APPROVED OVERCURRENT DEVICE BEING USED \div 1.40.**
5. 06ER166 New OEM Models no longer produced, replaced by 06ER165.
6. Compressor operating amps at any specific condition can only be determined from a performance curve.
7. Ohm values for resistance are approximate and shown for reference purposes only. Motors from different vendors and motors of different efficiencies can differ up to 15% from data shown.

ALLOWABLE OPERATING RANGES

NOMINAL VOLTAGE	MAXIMUM	MINIMUM
208/230	254	187
460	529	414
575	661	518
400 (50 Hz)	460	342
200 (50 Hz)	230	180

4.5 — 06EM, EZ 3 Phase Electrical Specifications

COMPRESSOR MODEL*	COMPRESSOR MOTOR DATA					CIRCUIT BREAKER DATA†							
	VOLT	MAX KW	HP	SEE NOTE 1		SEE NOTE 2		MOTOR WINDING RESISTANCE (Ohms)	SEE NOTE 3 Recommended Circuit Breaker Part No.	M.H.	M.T.	LRA	SEE NOTE 4 RLA with Listed breaker
				Maximum Must Trip Amps	Maximum RLA	LRA-XL	LRA-PW (first winding)						
06EM(1/4)50000 (1/4)50100 (1/4)50600 (1/4)50300	208/230 575 460 208/230/460	22.0	15	90 38 46 90/46	72 31 36 72/36	283 98 142 283/142	170 59 85 170/85	0.44 2.8 1.8 0.44/0.22	HH83XB626 XB634 XB635 XB626/XB695	78 29 40 78/40	90 33.5 46 90/46	250 97 150 250/150	64.3 23.9 33.9 64.3/33.9
06EM(2/5)65000 (2/5)65100 (2/5)65600 (See Note 5)	208/230 575 460	33.6	25	140 57 70	112 46 56	446 164 223	268 98 134	0.27 1.6 1.1	HH83XC509 XB615 XB607	110 46 55	127 53 64	420 164 210	90.7 37.9 45.7
06EM(1/4)75000 (1/4)75100 (1/4)75600 (1/4)75300	208/230 575 460 208/230/460	33.6	25	140 57 70 140/70	112 46 56 112/56	446 164 223 446/223	268 98 134 268/134	0.17 1.6 1.1 0.27/0.14	HH83XC509 XB615 XB607 XC509/XB607	110 46 55 110/55	127 53 64 127/64	420 164 210 420/210	90.7 37.9 45.7 90.7/45.7
06EM(1/4)99000 (1/4)99100 (1/4)99600 (1/4)99300	208/230 575 460 208/230/460	47.6	35	193 77 96 193/76	155 62 77 155/77	610 212 305 610/305	366 127 183 366/183	0.18 1.1 0.71 0.18/0.09	HH83XC532 XB680 XB648 XC532/XB648	158 68 77 158/77	182 78 88 182/88	590 236 283 590/283	130 55.7 62.9 130/62.9

LEGEND

- LRA – Locked Rotor Amps
- MH – Must Hold Amps
- MT – Must Trip Amps
- PW – Part Winding (Start)
- RLA – Rated Load Amps
- XL – Across-the-Line (Start)

* The last two digits of the compressor model number may vary. See page 4. The fifth digit in () of the compressor model number represents models with or without oil. 0, 1, 2 signifies older models with oil; 3, 4, 5 signifies newer models without oil. See page 4.

† Refer to revised Bulletin 03T-2 for recommended motor protection.

NOTES:

1. Compressor must-trip (M.T.) amps and RLA values are maximum figures.
2. LRA values for PW second winding = 1/2 the LRA -XL value.
3. 3-Pole XL circuit breakers shown, other 3-Pole XL alternates and 6-Pole PW breakers available. Terminal lugs for circuit breakers available in package 06EA660152.
4. RLA value shown is determined by: circuit breaker must trip value \div 1.40. Use this recommended (and minimum) RLA value to determine name plate stamping, minimum contactor sizing, and wire sizing. **RECOMMENDED RLA FOR 06E COMPRESSORS EQUALS: MUST- TRIP (M.T.) OF CARLYLE APPROVED OVERCURRENT DEVICE BEING USED \div 1.40.**
5. 06EM266 New OEM Models no longer produced, replaced by 06EA265.
6. Compressor operating amps at any specific condition can only be determined from a performance curve.
7. Ohm values for resistance are approximate and shown for reference purposes only. Motors from different vendors and motors of different efficiencies can differ up to 15% from data shown.

ALLOWABLE OPERATING RANGES

NOMINAL VOLTAGE	MAXIMUM	MINIMUM
208/230	254	187
460	529	414
575	661	518
400 (50 Hz)	460	342
200 (50 Hz)	230	180

4.6 — 06EA, ET 3 Phase Electrical Specifications

COMPRESSOR MOTOR DATA				CIRCUIT BREAKER DATA†									
COMPRESSOR MODEL*	VOLT	MAX KW	HP	SEE NOTE 1		SEE NOTE 2		MOTOR WINDING RESISTANCE (Ohms)	SEE NOTE 3 Recommended Circuit Breaker Part No.	M.H.	M.T.	LRA	SEE NOTE 4 RLA with Listed Breaker
				Maximum Must Trip Amps	Maximum RLA	LRA-XL	LRA-PW (first winding)						
06EA(2/5)50000 (2/5)50100 (2/5)50600	208/230	25.3	20	108	87	345	207	0.32	HH83XB625	91	104	350	74.3
	460			36	120	72	2.2	XB422	33	38	124	27.1	
	208/230/460			54	173	1.3	XB606	42	49	175	35		
06EA(2/5)65000 (2/5)65100 (2/5)65600	208/230	33.6	25	108/54	87/44	345/173	207/104	0.32/0.16	XB625/XB606	91/42	104/49	350/175	74.3/35
	460			140	112	446	268	0.27	HH83XC509	110	127	420	90.7
	208/230/460			57	46	164	98	1.6	XB615	46	53	164	37.9
06EA(2/5)75000 (2/5)75100 (2/5)75600	208/230	39.1	30	140/70	112/56	446/223	268/134	0.27/0.14	XC509/XB607	110/55	127/64	420/210	45.7
	460			168	135	506	304	0.22	HH83XC539	142	163	507	116.4
	208/230/460			65	52	176	106	1.3	XB683	50	58	168	41.4
06EA(2/5)99000 (2/5)99100 (2/5)99600	208/230	54.0	40	168/84	135/68	506/253	304/152	0.22/0.11	XC539/XB609	142/67	163/76	507/274	54.3
	460			84	68	253	152	0.9	XB609	63	76	274	116.4/54.3
	208/230/460			236	189	690	414	0.15	HH83XC537	187	215	636	153.6
(2/5)99300	208/230/460			118	95	345	207	0.58	XB405	74	85	236	60.7
				236/118	189/95	690/345	414/207	0.15/0.07	XC537/XB405	92	106	295	75.7
										187/92	106	636/295	153.6/75.7

LEGEND

LRA – Locked Rotor Amps
 MH – Must Hold Amps
 MT – Must Trip Amps
 PW – Part Winding (Start)
 RLA – Rated Load Amps
 XL – Across-the-Line (Start)

* The last two digits of the compressor model number may vary. See page 4. The fifth digit in () of the compressor model number represents models with or without oil. 0, 1, 2 signifies older models with oil; 3, 4, 5 signifies newer models without oil. See page 4.

† Refer to revised Bulletin 03T-2 for recommended motor protection.

NOTES:

1. Compressor must-trip (M.T.) amps and RLA values are maximum figures.
2. LRA values for PW second winding = 1/2 the LRA -XL value.
3. 3-Pole XL circuit breakers shown, other 3-Pole XL alternates and 6-Pole PW breakers available. Terminal lugs for circuit breakers available in package 06EA660152.
4. RLA value shown is determined by: circuit breaker must trip value \div 1.40. Use this recommended (and minimum) RLA value to determine name plate stamping, minimum contactor sizing, and wire sizing. **RECOMMENDED RLA FOR 06E COMPRESSORS EQUALS: MUST- TRIP (M.T.) OF CARLYLE APPROVED OVERCURRENT DEVICE BEING USED \div 1.40.**
5. Compressor operating amps at any specific condition can only be determined from a performance curve.
6. Ohm values for resistance are approximate and shown for reference purposes only. Motors from different vendors and motors of different efficiencies can differ up to 15% from data shown.

ALLOWABLE OPERATING RANGES

NOMINAL VOLTAGE	MAXIMUM	MINIMUM
208/230	254	187
460	529	414
575	661	518
400 (50 Hz)	460	342
200 (50 Hz)	230	180

4.7 — 06CC (16 to 37 Cfm) 3 Phase Electrical Specifications

COMPRESSOR MOTOR DATA

Compressor Model	MAX kW	HP	ELECTRICAL DATA				OVERLOAD CARLYLE PART NO.	PART NO. T.I. NO.
			Volt	MCC	RLA	LRA		
06CC016J101 D101 G101	6.25	5	575	10.8	6.9	40	HN69GZ032	8347A23-42
			208/230	27	17.3	100	HN69GZ024	8347A23-63
			460	13.5	8.7	50	HN69GZ014	8347A23-53
06CC017J101 D101 G101	6.25	5	575	10.8	6.9	40	HN69GZ032	8347A23-42
			208/230	27	17.3	100	HN69GZ024	8347A23-63
			460	13.5	8.7	50	HN69GZ014	8347A23-53
06CC018J101 D101 G101	6.25	5	575	10.8	6.9	40	HN69GZ032	8347A23-42
			208/230	27	17.3	100	HN69GZ024	8347A23-63
			460	13.5	8.7	50	HN69GZ014	8347A23-53
06CC124J101 D101 G101	9.18	6.5	575	13.2	8.5	64	HN69GZ037	8347A23-40
			208/230	33	21.2	160	HN69GZ214	8347A23-9
			460	16.5	10.6	80	HN69GZ038	8347A23-18
06CC125J101 D101 G101	9.18	6.5	575	13.2	8.5	64	HN69GZ037	8347A23-40
			208/230	33	21.2	160	HN69GZ214	8347A23-9
			460	16.5	10.6	80	HN69GZ038	8347A23-18
06CC228J101 D101 G101	12.8	7.5	575	16.7	10.2	79	HN69GZ004	8347A23-19
			208/230	41.6	26.7	198	HN69GZ306	8347B23-13
			460	20.9	13.4	99	HN69GZ010	8347A23-29
06CC337J101 D101 G101	16.5	10	575	18.8	12.1	91	HN69GZ025	8347A23-31
			208/230	46.5	29.8	228	HN69GZ309	8347B23-11
			460	23.3	14.9	114	HN69GZ024	8347A23-63

LEGEND

LRA – Locked Rotor Amps

MCC – Maximum Continuous Current

RLA – Rated Load Amps

Information in shaded area is no longer available in standard factory production.

NOTES:

1. RLA (rated load amps) value shown for new high efficiency models is $MCC \div 1.56 = RLA$. Use this recommended (and minimum) RLA value to determine nameplate stamping. Minimum contactor sizing and wire sizing.
2. Compressor operating amps at any specific condition can only be determined from a performance curve.
3. RLA values for 06D compressor protected by a calibrated circuit breaker will depend on must-trip value of circuit breaker.
4. Ohm values for resistance are approximate and shown for reference purposes only. Motors from different vendors and motors of different efficiencies can differ up to 15% from data shown.

ALLOWABLE OPERATING RANGES

NOMINAL VOLTAGE	MAXIMUM	MINIMUM
208/230	254	187
460	529	414
575	661	518
400 (50 Hz)	460	342
200 (50 Hz)	230	180

4.8 — 06CC (50 to 99 Cfm) 3 Phase Electrical Specifications

COMPRESSOR MOTOR DATA					CIRCUIT BREAKER DATA*							
Compressor Model	VOLT	MAX kW	HP	SEE NOTE 1	SEE NOTE 2		MOTOR WINDING RESISTANCE (Ohms)	SEE NOTE 3	M.T.	SEE NOTE 4		
				Max. Must Trip Amps	LRA-XL	LRA-PW (First Winding)		Recomm Circuit Breaker Part No.			M.H.	LRA
06CC550F201	460			32	142	85	2.8	HH83XB414	27	32	145	23
550J201	575	22.0	15	27	98	59	1.8	XB438	23	27	86	19
550E201	203/230/460			68/32	283	170	0.44/0.22	XB455/XB414	59	68	245	49
06CC665F201	460			50	173	104	2.2	HH83XB437	43	50	176	36
665J201	575	25.3	20	38	120	72	1.3	XB461	33	38	124	27
665E201	203/230/460			100/50	345/173	207	0.32/0.16	XB376/XB437	73	85	333	61
06CC675F201	460			50	173	104	2.2	HH83XB437	43	50	176	36
675J201	575	25.3	20	33	120	72	1.3	XB422	34	40	120	29
675E201	203/230/460			100/50	345/173	207	0.32/0.16	XB378XB437	77	89	365	64
06CC899F201	460			58	253	152	1.3	HH83XB432	63	73	240	52
899J201	575	39.1	30	58	176	106	0.88	XA430	50	58	168	41
899E201	203/230/460			141/73	506/253	304	0.22/0.11	XC406/XB432	122	141	464	101

LEGEND

LRA – Locked Rotor Amps

MH – Must Hold Amps

MT – Must Trip Amps

* Refer to revised Bulletin 03T-2 for recommended motor protection.

PW – Part Winding (Start)

RLA – Rated Load Amps

XL – Across-the-Line (Start)

NOTES:
 1. Compressor must-trip (M.T.) amps and RLA values are maximum figures.
 2. LRA values for PW second winding = 1/2 the LRA-XL value.
 3. 3-Pole XL circuit breakers shown, other 3-Pole PW breakers available. Terminal lugs for circuit breakers available in package 06EA660152.
 4. RLA value shown is determined by: circuit breaker must trip value ÷ 1.40. Use this recommended (and minimum) RLA value to determine name plate stamping, minimum contactor sizing, and wire sizing. RECOMMENDED RLA FOR 06CC COMPRESSOR EQUALS: MUST-TRIP (M.T.) OF CARLYLE APPROVED OVERCURRENT DEVICE BEING USED ÷ 1.40.
 5. Compressor operating amps at any specific condition can only be determined from a performance curve.
 6. Ohm values for resistance are approximate and shown for reference purposes only. Motors from different vendors and motors of different efficiencies can differ up to 15% from data shown.

ALLOWABLE OPERATING RANGES

NOMINAL VOLTAGE	MAXIMUM	MINIMUM
208/230	254	187
460	529	414
575	661	518
400 (50 Hz)	460	342
200 (50 Hz)	230	180

4.9 — 06D Electromechanical Overcurrent Protection

COMPRESSOR SIZE	VOLTAGE*	CARLYLE NO.	T.I. NO.	REMARKS
06DR109	208/230-1-60	HN69GZ025 HN69GZ032	8347A23-31 8347A23-42	Common Start
06DM808 06DR013	208/230-1-60	HN69GZ024 HN69GZ014	8347A23-63 8347A23-53	Common Start
06DM313 06DM316 06DR316 06DR718	208/230-1-60	HN69GZ106 HN69GZ037	8348A7-4 8347A23-40	Common Start
06DR109	208/230	HN69GZ007	8347A23-54	2 Required
	460	HN69GZ015	8347A23-92	2 Required
	575	HN69GZ011	8347A23-86	2 Required
06DM808 06DR013	208/230	HN69GZ053	8347A23-19	2 Required
	460	HN69GZ012	8347A23-56	2 Required
	575	HN69GZ012	8347A23-56	2 Required
06DM313 06DM316 06DR316 06DR718	208/230	HN69GZ024	8347A23-63	2 Required
	460	HN69GZ014	8347A23-53	2 Required
	575	HN69GZ032	8347A23-42	2 Required
06DA818 06DR820 06DR724 (25)	208/230	HN69GZ214	8348A17-9	2 Required
	460	HN69GZ038	8347A23-18	2 Required
	575	HN69GZ037	8347A23-40	2 Required
06DA824 (25) 06DR228	208/230	HN69GZ306	8348B19-13	2 Required
	460	HN69GZ010	8347A23-29	2 Required
	575	HN69GZ053	8347A23-19	2 Required
06DA328 06DM337 06DR337	208/230	HN69GZ309	8348B19-11	3 Required
	460	HN69GZ024	8347A23-63	2 Required
	575	HN69GZ025	8347A23-31	2 Required
06DA537 06DR541	208/230	HN69GZ214	8348A17-9	4 Required†
	460	HN69GZ106	8348A7-4	2 Required
	575	HN69GZ301	8347A30-69	2 Required

* Voltage is 3 phase 60 cycle, unless noted as single-phase 60 cycle.

† Two overloads in parallel in legs 1 and 3.

NOTES:

- Most 06D compressors have internal thermostat installed in motor and wire across terminals 8 and 9 at the terminal block. It trips (opens) control circuit at 221 F (105 C) and resets at 181 F (83 C).
- Based on new high efficiency (H.E.) extended voltage compressor models.
- Information in shaded area is no longer available in standard factory production.