

COMPRESSOR DEFINITION

Designation	EM L26CLC
Nominal Voltage/Frequency	220-240 V 50 Hz
Engineering Number	1987155

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-600a		
3 Nominal voltage and frequency	220-240 / 50	[V / Hz]	
4 Application type	Low-Medium Back Pressure		
4.1 Evaporating temperature range	-35°C to -5°C	(-31°F to 23°F)	
5 Motor type	RSCR		
6 Starting torque	LST - Low Starting Torque		
7 Expantion device	Capillary tube		
8 Compressor cooling		Operating voltage range	
		50 Hz	60 Hz
8.1 LBP (32°C Ambient temperature)	Static	198 to 254 V	-
8.2 LBP (43°C Ambient temperature)	Static	198 to 254 V	-
8.3 HBP (32°C Ambient temperature)	-	-	-
8.4 HBP (43°C Ambient temperature)	-	-	-
9 Maximum condensing temperature			
9.1 Operating	6.9	[kgf/cm²] (98 psig)	/ °C - °F
9.2 Peak	7.8	[kgf/cm²] (111 psig)	/ °C - °F
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation		[hp]
2 Displacement	5.19	[cm³] (0.317 cu.in)
2.1 Bore [mm]	21.000	
2.2 Stroke [mm]	15.000	
3 Lubricant charge	180	[ml] (6.09 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	MINERAL / ISO7	
4 Weight (with oil charge)	7.7	[kg] (16.98 lb.)
5 Nitrogen charge	-	[kgf/cm²]

C - ELETRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	220-240 V 50 Hz 1 ~ (Single phase)	
2 Starting device type	TSD	
2.1 Starting device	TSD-220V	
3 Start capacitor	-	[μF(VAC minimum)]
4 Run capacitor	2.5(280)/3(280)	[μF(VAC minimum)]
5 Motor protection	4TM110NFBYY-53	
6 Start winding resistance	28.50	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	43.20	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (50 Hz)	2.25	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (50 Hz)	0.70	[A]
10 FLA - Full Load Amperage HBP (50 Hz)	-	[A]
11 Approval boards certification		

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @220V50Hz			ASHRAELBP32 Static		Evaporating temperature (Condensing temperature		-23.3°C (-9.94°F) 54.4°C (129.92°F))	
Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
295	74	86	56	0.25	0.93	5.32	1.34	1.56

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V50Hz				ASHRAE32 Static		(Condensing temperature 45°C (+113°F))				
Evaporating temperature		Cooling capacity +/- 5%			Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-35	(-31)	159	40	47	37	0.17	0.50	4.28	1.08	1.25
-30	(-22)	209	53	61	42	0.20	0.66	4.97	1.25	1.46
-25	(-13)	277	70	81	48	0.22	0.87	5.80	1.46	1.70
-20	(- 4)	361	91	106	53	0.25	1.14	6.76	1.70	1.98
-15	(+ 5)	463	117	136	59	0.27	1.46	7.82	1.97	2.29
-10	(+14)	583	147	171	65	0.29	1.84	8.96	2.26	2.62
-5	(+23)	719	181	211	71	0.32	2.27	10.13	2.55	2.97

TEST CONDITIONS: @220V50Hz		ASHRAE32 Static				(Condensing temperature 55°C (+131°F))				
Evaporating temperature		Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE		
		+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-35	(-31)	138	35	41	37	0.17	0.43	3.74	0.94	1.09
-30	(-22)	191	48	56	43	0.20	0.60	4.41	1.11	1.29
-25	(-13)	260	65	76	50	0.23	0.82	5.19	1.31	1.52
-20	(- 4)	344	87	101	57	0.26	1.08	6.04	1.52	1.77
-15	(+ 5)	444	112	130	64	0.29	1.40	6.94	1.75	2.03
-10	(+14)	560	141	164	71	0.32	1.77	7.85	1.98	2.30
-5	(+23)	692	174	203	79	0.35	2.19	8.76	2.21	2.57

TEST CONDITIONS: @220V50Hz		ASHRAE32 Static				(Condensing temperature 65°C (+149°F))				
Evaporating temperature		Cooling capacity			Power consumption	Current consumption	Gas flow rate	EFFICIENCY RATE		
		+/- 5%			+/- 5%	+/- 5%	+/- 5%	+/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-35	(-31)	109	27	32	36	0.17	0.34	3.04	0.77	0.89
-30	(-22)	164	41	48	43	0.20	0.51	3.76	0.95	1.10
-25	(-13)	232	59	68	51	0.23	0.73	4.53	1.14	1.33
-20	(- 4)	315	79	92	59	0.26	0.99	5.31	1.34	1.56
-15	(+ 5)	413	104	121	68	0.30	1.30	6.10	1.54	1.79
-10	(+14)	524	132	154	77	0.34	1.65	6.85	1.73	2.01
-5	(+23)	650	164	191	86	0.39	2.06	7.55	1.90	2.21

F - EXTERNAL CHARACTERISTICS

1 Base plate	European Standard		
2 Tray holder	No		
3 Connectors			
3.1 SUCTION	6.1 +0.10/+0.00	[mm]	(0.240" +0.004"/+0.000")
3.1.1 Material	Copper		
3.1.2 Shape	Slanted 42°		
3.2 DISCHARGE	4.94 +0.08/-0.08	[mm]	(0.194" +0.003"/-0.003")
3.2.1 Material	Copper		
3.2.2 Shape	Straight		
3.3 PROCESS	6.1 +0.10/+0.00	[mm]	(0.240" +0.004"/+0.000")
3.3.1 Material	Copper		
3.3.2 Shape	Slanted 42°		
3.4 Oil cooler (Copper)	No	[mm]	
3.5 Connector sealing	Rubber Plugs		