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 (32ºC Ambient temperature)	Static	198 to 254 V	-
8.2 LBP (43ºC Ambient temperature)	Static	198 to 254 V	-
8.3 HBP (32ºC Ambient temperature)	-	-	-
8.4 HBP (43ºC Ambient temperature)	-	-	-
9 Maximum condensing temperature			
9.1 Operating	6.9	[kgf/cm²] (98 psig)	/ ºC - ºF
9.2 Peak	7.8	[kgf/cm²] (111 psig)	/ ºC - ºF
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 25ºC (77ºF)] +/- 8%
7 Run winding resistance	43.20	[Ω at 25ºC (77ºF)] +/- 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:			**CECOMAFLBP**			Evaporating temperature		**-25°C (-13°F)**
@220V50Hz			**Static**			(Condensing temperature		**55°C (131°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]
219	55	64	52	0.24	0.84	4.24	1.07	1.24

E - PERFORMANCE - CURVES

TEST CONDITIONS:		**CECOMAF**	(Condensing temperature **45ºC (+113ºF))**
@220V50Hz		**Static**	

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)**	143	36	42	37	0.17	0.50	3.85	0.97	1.13
-30	**(-22)**	188	47	55	42	0.20	0.65	4.46	1.12	1.31
-25	**(-13)**	249	63	73	48	0.22	0.87	5.19	1.31	1.52
-20	**(- 4)**	325	82	95	54	0.25	1.13	6.04	1.52	1.77
-15	**(+ 5)**	417	105	122	60	0.27	1.46	6.98	1.76	2.04
-10	**(+14)**	525	132	154	66	0.29	1.84	8.00	2.02	2.34
-5	**(+23)**	647	163	190	71	0.32	2.27	9.10	2.29	2.67

TEST CONDITIONS:		**CECOMAF**	(Condensing temperature **55ºC (+131ºF))**
@220V50Hz		**Static**	

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)**	114	29	33	37	0.17	0.43	3.09	0.78	0.91
-30	**(-22)**	157	40	46	43	0.20	0.60	3.64	0.92	1.07
-25	**(-13)**	213	54	63	50	0.23	0.81	4.26	1.07	1.25
-20	**(- 4)**	282	71	83	57	0.26	1.08	4.94	1.25	1.45
-15	**(+ 5)**	364	92	107	64	0.29	1.40	5.67	1.43	1.66
-10	**(+14)**	459	116	135	72	0.32	1.76	6.42	1.62	1.88
-5	**(+23)**	567	143	166	79	0.35	2.18	7.20	1.81	2.11

TEST CONDITIONS:		**CECOMAF**	(Condensing temperature **65ºC (+149ºF))**
@220V50Hz		**Static**	

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)**	81	20	24	36	0.17	0.34	2.26	0.57	0.66
-30	**(-22)**	122	31	36	43	0.20	0.51	2.81	0.71	0.82
-25	**(-13)**	173	44	51	51	0.23	0.73	3.38	0.85	0.99
-20	**(- 4)**	234	59	69	59	0.26	0.99	3.96	1.00	1.16
-15	**(+ 5)**	306	77	90	68	0.30	1.30	4.52	1.14	1.32
-10	**(+14)**	388	98	114	77	0.34	1.65	5.07	1.28	1.48
-5	**(+23)**	481	121	141	86	0.39	2.06	5.58	1.41	1.63

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		