COMPRESSOR DEFINITION

Designation	**EM T26CLP**
Nominal Voltage/Frequency	**220-240 V 50 Hz**
Engineering Number	**891BA63**

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	RSIR		
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	187 to 255 V	-
8.2 LBP (43ºC Ambient temperature)	-	-	-
8.3 HBP (32ºC Ambient temperature)	-	-	-
8.4 HBP (43ºC Ambient temperature)	-	-	-
9 Maximum condensing pressures/temperature			
9.1 Operating (gauge)	7.7	[kgf/cm²] (109 psig)	/ ºC - ºF
9.2 Peak (gauge)	9.8	[kgf/cm²] (139 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	[kg] (15.43 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	PTC	
2.1 Starting device	MSDA3	
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	4TM110NFBYY-153	
6 Start winding resistance	31.60	[Ω at 25ºC (77ºF)] +/- 8%
7 Run winding resistance	42.90	[Ω at 25ºC (77ºF)] +/- 8%
8 LRA - Locked rotor amperage (50 Hz)	3.00	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (50 Hz)	0.44	[A]
10 FLA - Full Load Amperage HBP (50 Hz)	-	[A]
11 Approval boards certification	VDE	

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]
290	73	85	69	0.45	0.91	4.22	1.06	1.24

E - PERFORMANCE - CURVES

TEST CONDITIONS: **@220V50Hz**		**ASHRAE32** **Static**				(Condensing temperature **45ºC (+113ºF))**				
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)**	148	37	43	50	0.41	0.46	2.97	0.75	0.87
-30	**(-22)**	210	53	61	56	0.42	0.66	3.74	0.94	1.10
-25	**(-13)**	283	71	83	63	0.44	0.89	4.48	1.13	1.31
-20	**(- 4)**	368	93	108	71	0.46	1.16	5.22	1.31	1.53
-15	**(+ 5)**	468	118	137	79	0.48	1.47	5.97	1.50	1.75
-10	**(+14)**	583	147	171	86	0.50	1.84	6.77	1.71	1.98
-5	**(+23)**	715	180	209	94	0.53	2.26	7.63	1.92	2.24

TEST CONDITIONS: **@220V50Hz**		**ASHRAE32** **Static**				(Condensing temperature **55ºC (+131ºF))**				
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)**	135	34	40	50	0.41	0.42	2.69	0.68	0.79
-30	**(-22)**	193	49	56	57	0.43	0.60	3.36	0.85	0.98
-25	**(-13)**	262	66	77	66	0.45	0.82	4.00	1.01	1.17
-20	**(- 4)**	346	87	101	75	0.47	1.09	4.62	1.17	1.35
-15	**(+ 5)**	443	112	130	84	0.50	1.40	5.26	1.33	1.54
-10	**(+14)**	557	140	163	94	0.53	1.76	5.94	1.50	1.74
-5	**(+23)**	687	173	201	103	0.56	2.17	6.68	1.68	1.96

TEST CONDITIONS: **@220V50Hz**		**ASHRAE32** **Static**				(Condensing temperature **65ºC (+149ºF))**				
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)**	119	30	35	50	0.42	0.37	2.36	0.60	0.69
-30	**(-22)**	173	44	51	59	0.44	0.54	2.97	0.75	0.87
-25	**(-13)**	240	60	70	68	0.46	0.75	3.53	0.89	1.04
-20	**(- 4)**	320	81	94	78	0.49	1.01	4.08	1.03	1.20
-15	**(+ 5)**	416	105	122	90	0.52	1.31	4.64	1.17	1.36
-10	**(+14)**	528	133	155	101	0.56	1.67	5.22	1.32	1.53
-5	**(+23)**	657	166	193	112	0.60	2.08	5.87	1.48	1.72

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	5.1 +0.10/+0.00	[mm]	(0.201" +0.004"/+0.000")
3.2.1 Material	Copper		
3.2.2 Shape	Straight		
3.3 PROCESS	6 +0.08/-0.08	[mm]	(0.236" +0.003"/-0.003")
3.3.1 Material	Copper(OD)		
3.3.2 Shape	Slanted 42°		
3.4 Oil cooler (Copper)	No	[mm]	
3.5 Connector sealing	Rubber Plugs		