

COMPRESSOR DEFINITION

Designation	EM T26CLP
Nominal Voltage/Frequency	220-240 V 50 Hz
Engineering Number	891BA73

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 Expansion device	Capillary tube		
8 Compressor cooling		Operating voltage range	
		50 Hz	60 Hz
8.1 LBP (32°C Ambient temperature)	Static	187 to 255 V	-
8.2 LBP (43°C Ambient temperature)	-	-	-
8.3 HBP (32°C Ambient temperature)	-	-	-
8.4 HBP (43°C Ambient temperature)	-	-	-
9 Maximum condensing pressures/temperature			
9.1 Operating (gauge)	7.7	[kgf/cm ²] (109 psig)	/ °C - °F
9.2 Peak (gauge)	9.8	[kgf/cm ²] (139 psig)	/ °C - °F
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation		[hp]
2 Displacement	5.19	[cm ³] (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/cm ²]

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	2019	
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	AD24AHN10	
6 Start winding resistance	31.60	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	42.90	[Ω at 25°C (77°F)] +/- 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			CECOMAF LBP Static		Evaporating temperature (Condensing temperature		-25°C (-13°F) 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]
218	55	64	65	0.44	0.83	3.34	0.84	0.98

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V50Hz		CECOMAF 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)	134	34	39	48	0.41	0.47	2.79	0.70	0.82
-30	(-22)	189	48	55	55	0.42	0.66	3.46	0.87	1.01
-25	(-13)	253	64	74	62	0.44	0.88	4.10	1.03	1.20
-20	(- 4)	328	83	96	69	0.46	1.14	4.73	1.19	1.39
-15	(+ 5)	415	105	122	77	0.48	1.45	5.39	1.36	1.58
-10	(+14)	517	130	151	85	0.51	1.81	6.10	1.54	1.79
-5	(+23)	635	160	186	92	0.53	2.23	6.89	1.74	2.02

TEST CONDITIONS: @220V50Hz		CECOMAF Static			(Condensing temperature 55°C (+131°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)	111	28	33	49	0.41	0.42	2.28	0.58	0.67
-30	(-22)	161	40	47	57	0.42	0.61	2.83	0.71	0.83
-25	(-13)	217	55	64	65	0.44	0.83	3.33	0.84	0.98
-20	(- 4)	283	71	83	74	0.47	1.08	3.82	0.96	1.12
-15	(+ 5)	360	91	106	84	0.50	1.38	4.31	1.09	1.26
-10	(+14)	450	113	132	93	0.53	1.73	4.85	1.22	1.42
-5	(+23)	555	140	163	102	0.56	2.14	5.47	1.38	1.60

TEST CONDITIONS: @220V50Hz		CECOMAF Static			(Condensing temperature 65°C (+149°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)	84	21	25	49	0.41	0.36	1.72	0.43	0.51
-30	(-22)	129	33	38	58	0.42	0.54	2.21	0.56	0.65
-25	(-13)	180	45	53	68	0.44	0.76	2.63	0.66	0.77
-20	(- 4)	238	60	70	79	0.47	1.01	3.03	0.76	0.89
-15	(+ 5)	306	77	90	89	0.51	1.30	3.42	0.86	1.00
-10	(+14)	386	97	113	100	0.55	1.64	3.85	0.97	1.13
-5	(+23)	479	121	140	110	0.60	2.05	4.34	1.09	1.27

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	5.02 +0.02/-0.02	[mm]	(0.198" +0.001"/-0.001")
3.2.1 Material	Copper		
3.2.2 Shape	Straight		
3.3 PROCESS	4.95 +0.05/+0.05	[mm]	(0.195" +0.002"/+0.002")
3.3.1 Material	Copper		
3.3.2 Shape	Vertical		
3.4 Oil cooler (Copper)	No	[mm]	
3.5 Connector sealing	Rubber Plugs		