COMPRESSOR DEFINITION

Designation	**EM C26CLT**
Nominal Voltage/Frequency	**220-240 V 50 Hz**
Engineering Number	**700SA89**

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 Back Pressure		
4.1 Evaporating temperature range	-35°C to -10°C	(-31°F to 14°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	187 to 255 V	-
8.2 LBP (43ºC Ambient temperature)	Static	187 to 255 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	1/10	[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	150	[ml] (5.07 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ALQUILB / ISO5	
4 Weight (with oil charge)	7.45	[kg] (16.42 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	MI2021/V230	
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	2.5(350)/2(350)	[µF(VAC minimum)]
5 Motor protection	AX24BNXX	
6 Start winding resistance	25.00	[Ω at 25ºC (77ºF)] +/- 8%
7 Run winding resistance	59.15	[Ω at 25ºC (77ºF)] +/- 8%
8 LRA - Locked rotor amperage (50 Hz)	2.32	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (50 Hz)	0.36	[A] - Measured according to UL 984
10 FLA - Full Load Amperage HBP (50 Hz)	0.48	[A] - Measured according to UL 984
11 Approval boards certification	VDE	

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: **@220V50Hz**			**CECOMAFLBP-NOFAN** **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]
206	52	60	46	0.20	0.79	4.53	1.14	1.33

E - PERFORMANCE - CURVES

TEST CONDITIONS: **CECOMAF-NOFAN** (Condensing temperature **35ºC (+95ºF))**
@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)**	168	42	49	29	0.12	0.54	5.71	1.44	1.67
-30	**(-22)**	224	56	66	34	0.14	0.72	6.54	1.65	1.92
-25	**(-13)**	295	74	86	40	0.16	0.94	7.50	1.89	2.20
-20	**(- 4)**	381	96	112	45	0.18	1.22	8.58	2.16	2.51
-15	**(+ 5)**	484	122	142	50	0.21	1.56	9.78	2.46	2.87
-10	**(+14)**	603	152	177	54	0.24	1.95	11.09	2.79	3.25

TEST CONDITIONS: **CECOMAF-NOFAN** (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)**	135	34	40	29	0.14	0.47	4.64	1.17	1.36
-30	**(-22)**	186	47	55	35	0.16	0.65	5.33	1.34	1.56
-25	**(-13)**	250	63	73	41	0.19	0.87	6.10	1.54	1.79
-20	**(- 4)**	328	83	96	47	0.22	1.14	6.93	1.75	2.03
-15	**(+ 5)**	421	106	123	53	0.25	1.47	7.83	1.97	2.29
-10	**(+14)**	529	133	155	60	0.28	1.85	8.78	2.21	2.57

TEST CONDITIONS: **CECOMAF-NOFAN** (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)**	101	25	29	29	0.15	0.38	3.57	0.90	1.05
-30	**(-22)**	146	37	43	35	0.17	0.56	4.18	1.05	1.23
-25	**(-13)**	203	51	59	42	0.20	0.77	4.82	1.21	1.41
-20	**(- 4)**	272	69	80	49	0.24	1.04	5.47	1.38	1.60
-15	**(+ 5)**	354	89	104	57	0.27	1.36	6.13	1.54	1.80
-10	**(+14)**	450	113	132	66	0.31	1.73	6.80	1.71	1.99

E - PERFORMANCE - CURVES

TEST CONDITIONS: **CECOMAF-NOFAN** (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)**	72	18	21	26	0.13	0.30	2.68	0.67	0.78
-30	**(-22)**	111	28	32	33	0.16	0.46	3.28	0.83	0.96
-25	**(-13)**	159	40	47	41	0.20	0.67	3.86	0.97	1.13
-20	**(- 4)**	219	55	64	50	0.24	0.93	4.39	1.11	1.29
-15	**(+ 5)**	289	73	85	60	0.28	1.23	4.88	1.23	1.43
-10	**(+14)**	372	94	109	70	0.33	1.59	5.32	1.34	1.56

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 42º up + 45° to Back		
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	Slanted 42º up + 45° to Back		
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 43° up + 45° to Back		
3.4 Oil cooler (Copper)	No	[mm]	
3.5 Connector sealing	Rubber Plugs		