

### COMPRESSOR DEFINITION

Designation	NE U6217U
Nominal Voltage/Frequency	220-240 V 50 Hz
Engineering Number	863SA51

### A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-290		
3 Nominal voltage and frequency	220-240 / 50	[ V / Hz ]	
4 Application type	Medium Back Pressure (Commercial Compressors)		
4.1 Evaporating temperature range	-20°C to 10°C	(-4°F to 50°F)	
5 Motor type	CSIR		
6 Starting torque	HST - Hight starting torque		
7 Expansion device	Capillary tube or Expansion valve		
8 Compressor cooling	Operating voltage range		
		50 Hz	60 Hz
8.1 LBP (32°C Ambient temperature)	-	-	-
8.2 LBP (43°C Ambient temperature)	-	-	-
8.3 HBP (32°C Ambient temperature)	-	-	-
8.4 HBP (43°C Ambient temperature)	-	-	-
9 Maximum condensing temperature			
9.1 Operating	18.4	[kgf/cm <sup>2</sup> ] (262 psig)	/ °C - °F
9.2 Peak	20.6	[kgf/cm <sup>2</sup> ] (293 psig)	/ °C - °F
10 Maximum winding temperature	130	[ °C ]	

### B - MECHANICAL DATA

1 Commercial designation	3/4	[hp]
2 Displacement	14.28	[cm <sup>3</sup> ] (0.871 cu.in)
2.1 Bore [mm]	30.157	
2.2 Stroke [mm]	20.000	
3 Lubricant charge	350	[ml] (11.84 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	AB / ISO32	
4 Weight (with oil charge)	10.6	[kg] (23.37 lb.)
5 Nitrogen charge	-	[kgf/cm <sup>2</sup> ]

### C - ELETRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	220-240 V 50 Hz 1 ~ (Single phase)	
2 Starting device type	Current Relay	
2.1 Starting device	MTRPH-0071-65	
3 Start capacitor	88-108(330)	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	MRA38173-3259	
6 Start winding resistance	14.95	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	5.35	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (50 Hz)	21.00	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (50 Hz)	-	[A] - Measured according to UL 984
10 FLA - Full Load Amperage HBP (50 Hz)	-	[A] - Measured according to UL 984
11 Approval boards certification	CCC - VDE	

### D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @220V50Hz			EN12900MBP Fan		Evaporating temperature (Condensing temperature		-10°C (14°F) 45°C (113°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]
3523	888	1032	564	3.29	12.68	6.25	1.58	1.83

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V50Hz		EN12900 Fan				(Condensing temperature 35°C (+95°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]
-20	(- 4)	2688	677	788	432	2.74	8.71	6.21	1.57	1.82
-15	(+ 5)	3307	833	969	469	2.88	10.78	7.05	1.78	2.07
-10	(+14)	4045	1019	1185	504	3.01	13.27	8.04	2.03	2.35
-5	(+23)	4904	1236	1437	536	3.15	16.19	9.15	2.31	2.68
0	(+32)	5882	1482	1724	566	3.28	19.59	10.40	2.62	3.05
+5	(+41)	6981	1759	2046	593	3.42	23.48	11.77	2.97	3.45
+10	(+50)	8201	2067	2403	619	3.56	27.89	13.24	3.34	3.88

TEST CONDITIONS: @220V50Hz		EN12900 Fan				(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]
-20	(- 4)	2362	595	692	470	2.95	8.39	5.03	1.27	1.47
-15	(+ 5)	2889	728	847	517	3.12	10.33	5.59	1.41	1.64
-10	(+14)	3518	886	1031	563	3.29	12.66	6.25	1.57	1.83
-5	(+23)	4247	1070	1245	606	3.44	15.40	7.00	1.76	2.05
0	(+32)	5078	1280	1488	647	3.59	18.59	7.84	1.98	2.30
+5	(+41)	6011	1515	1761	686	3.74	22.24	8.77	2.21	2.57
+10	(+50)	7045	1775	2064	723	3.88	26.39	9.76	2.46	2.86

TEST CONDITIONS: @220V50Hz		EN12900 Fan				(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]
-20	(- 4)	1973	497	578	500	3.01	7.80	3.94	0.99	1.15
-15	(+ 5)	2440	615	715	563	3.28	9.71	4.34	1.09	1.27
-10	(+14)	2989	753	876	623	3.53	11.98	4.80	1.21	1.41
-5	(+23)	3621	912	1061	681	3.78	14.64	5.32	1.34	1.56
0	(+32)	4335	1092	1270	738	4.01	17.71	5.88	1.48	1.72
+5	(+41)	5131	1293	1504	792	4.23	21.23	6.48	1.63	1.90
+10	(+50)	6011	1515	1761	844	4.44	25.21	7.12	1.79	2.09

### F - EXTERNAL CHARACTERISTICS

1 Base plate	European Standard		
2 Tray holder	No		
3 Connectors			
3.1 SUCTION	8.1 +0.10/+0.00	[mm]	(0.319" +0.004"/+0.000")
3.1.1 Material	Copper		
3.1.2 Shape	Slanted 42°		
3.2 DISCHARGE	6.1 +0.10/+0.00	[mm]	(0.240" +0.004"/+0.000")
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		