

COMPRESSOR DEFINITION

Designation	NT2192GK
Nominal Voltage/Frequency	220-240 V 50 Hz
Engineering Number	923EA04


A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-404A		
3 Nominal voltage and frequency	220-240 / 50	[V / Hz]	
4 Application type	Low Back Pressure		
4.1 Evaporating temperature range	-40°C to -10°C		
5 Motor type	CSR		
6 Starting torque	HST - High starting torque		
7 Expansion device	Capillary tube or Expansion valve		
8 Compressor cooling	Fan cooled	Operating voltage range	
		50 Hz	60 Hz
8.1 LBP (32°C Ambient temperature)	-	-	-
8.2 LBP (43°C Ambient temperature)	-	-	-
	-	-	-
	-	-	-
9 Maximum condensing pressures/temperature			
9.1 Operating (gauge)	24.7	[bar]	
9.2 Peak (gauge)	27.7	[bar]	
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	1+	[hp]
2 Displacement	22.37	[cm ³]
2.1 Bore	36.990	
2.2 Stroke	20.83	
3 Lubricant charge	450	[ml]
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ESTER / ISO22	
4 Weight(with oil charge)	17.5	[kg]
5 Nitrogen charge	0.2 to 0.3	[bar]

C - ELETRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	220-240 V 50 Hz 1 ~ (Single phase)	
2 Starting device type	Voltage Relay	
2.1 Starting device	3ARR3B10AB3	
3 Start capacitor	130-156(250)	[µF(VAC minimum)]
4 Run capacitor	15(440)	[µF(VAC minimum)]
5 Motor protection (external)	T0883/G9	
6 Start winding resistance	[ohm at 25°C] +/- 8%	
7 Run winding resistance	[ohm at 25°C] +/- 8%	
8 LRA - Locked rotor amperage (50 Hz)	35	[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	IMQ	

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @220V50Hz		EN12900LBP Fan		Evaporating temperature	-35°C (-31°F)	Condensing temperature	40°C (104°F)
Cooling capacity +/- 5%		Power consumption +/- 5%	Current consumption +/- 5%	Gas flow rate +/- 5%	EFFICIENCY RATE +/- 7%		
	[W]	[W]	[A]	[Kg/h]		[W/W]	
	568	534	2.73	15.38		1.06	

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		[W]	[W]	[A]	[Kg/h]		[W/W]
-40		469	450	2.37	11.92		1.04
-35		632	529	2.67	16.13		1.20
-30		828	602	2.98	21.24		1.38
-25		1061	672	3.28	27.35		1.58
-20		1334	742	3.59	34.58		1.80
-15		1647	815	3.90	43.03		2.02
-10		2004	894	4.22	52.82		2.24

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		[W]	[W]	[A]	[Kg/h]		[W/W]
-40		367	449	2.35	10.60		0.82
-35		505	539	2.71	14.63		0.94
-30		672	624	3.09	19.54		1.07
-25		869	708	3.47	25.43		1.22
-20		1100	794	3.85	32.42		1.38
-15		1366	883	4.25	40.62		1.55
-10		1669	980	4.66	50.14		1.71

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		[W]	[W]	[A]	[Kg/h]		[W/W]
-40		-	-	-	-		-
-35		384	535	2.73	13.19		0.72
-30		522	641	3.17	17.83		0.81
-25		681	744	3.61	23.42		0.92
-20		867	849	4.07	30.10		1.02
-15		1083	960	4.55	37.97		1.13
-10		1330	1079	5.05	47.14		1.23

F - EXTERNAL CHARACTERISTICS

1 Base plate	Universal		
2 Tray holder	No		
3 Connectors			
3.1 SUCTION	9.6 +0.07/+0.00	[mm]	(0.378" +0.003"/+0.000")
3.1.1 Material	Copper		
3.1.2 Shape	Vertical		
3.2 DISCHARGE	6.42 +0.08/+0.00	[mm]	(0.253" +0.003"/+0.000")
3.2.1 Material	Copper		
3.2.2 Shape	Vertical		
3.3 PROCESS	9.6 +0.07/+0.00	[mm]	(0.378" +0.003"/+0.000")
3.3.1 Material	Copper		
3.3.2 Shape	Vertical		
3.4 Oil cooler (Copper)	No	[mm]	
3.5 Connector sealing	Rubber Plugs		