



Model: NT6215Z
Code: 211AC06

embraco POWER IN.
CHANGE ON

Type:	On-off
Voltage [V] / Frequency [Hz] / Phases	220 V 50 Hz 1 ~
Refrigerant:	R-134a
Application:	HBP

Motor type:	CSIR
Starting torque:	HST
HP:	1/2+
Displacement:	17.39 cm ³

OPERATING CONDITION : ARI HBP

Evaporation Temp.	7.2 °C	Return Temp.	18.3 °C	Superheating	11.1 K
Condensing Temp.	54.4 °C	Liquid Temp.	54.4 °C	Subcooling	0.0 K

Cooling capacity	Power consumption	Mass flow rate	Efficiency
1,434.62 W	741.88 W	38.41 kg/h	1.93 W/W

APPLICATION

Evaporating temperature range:	-15 to 10 °C	Cooling type:	Fan Cooling
Permanent operating temperature (peak) :	60 (70) °C	Air Flow	--
Expansion device:	Capillary tube or Expansion valve	Maximum motor temperature:	130 °C

ELECTRICAL DATA

Start winding resistance at 25°C (77°F):	19.25 Ω +/- 8%	Run winding resistance at 25°C (77°F):	3 Ω +/- 8%
FLA - full load amperage L/MBP [A] 50 Hz / 60 Hz:	- / -	LRA (A) 50 Hz / 60 Hz:	20.7 / -
		FLA - full load amperage HBP [A] 50 Hz / 60 Hz:	- / -

MECHANICAL DATA

Bore:	34.12 mm	Stroke:	9.52 mm
		Displacement:	17.39 cm ³

OTHER INFORMATION

Weight:	17 kg	Oil charge:	450 ml
Lubricant type:	Polyolester ISO22	Nitrogen charge:	Yes

EXTERNAL SETTINGS

	Shape	Material	Diameter [mm]
Suction connector	Slanted 42°	Copper	9.60
Discharge connector	Straight	Copper	6.42
Process connector	Vertical	Copper	6.42
Base plate:	Universal	Tray holder:	No

PERFORMANCES AT STANDARD CHECK-POINTS

Checkpoint	Cooling capacity	Power consumption	Gas flow rate	Cooling Efficiency	Heating capacity +/-	Heating Efficiency
	+/-5% W	+/-5% W	+/-5% kg/h	+/- 7% W/W	5%* W	+/- 7% W/W
EN12900 HBP	1,421.01	685.84	35.64	2.07	1,716.94	2.50
EN12900 MBP	793.89	505.77	18.51	1.57	1,011.06	2.00

* Calculations performed considering isentropic compression and a housing loss of 10%. This is an estimated heat amount discarded in the discharge pipe and the condenser combined.

CONDENSING TEMP. 35 °C**(SUBCOOLING : 0 K, RETURN TEMP.: 32 °C)**

Evaporating temperature °C	Cooling capacity	Power consumption	Gas flow rate	Cooling Efficiency	Heating capacity +/-	Heating Efficiency
	+/-5%	+/-5%	+/-5%	+/- 7%	5% *	+/- 7%
	W	W	kg/h	W/W	W	W/W
-15.00	745.84	427.26	14.88	1.75	924.16	2.16
-10.00	943.63	462.58	18.90	2.04	1,139.57	2.46
-5.00	1,179.60	496.13	23.72	2.38	1,389.80	2.80
0.00	1,464.34	526.77	29.60	2.78	1,684.88	3.20
5.00	1,806.50	551.55	36.74	3.28	2,031.81	3.68
10.00	2,214.28	566.00	45.35	3.91	2,436.67	4.31

CONDENSING TEMP. 45 °C**(SUBCOOLING : 0 K, RETURN TEMP.: 32 °C)**

Evaporating temperature °C	Cooling capacity	Power consumption	Gas flow rate	Cooling Efficiency	Heating capacity +/-	Heating Efficiency
	+/-5%	+/-5%	+/-5%	+/- 7%	5% *	+/- 7%
	W	W	kg/h	W/W	W	W/W
-15.00	619.55	438.90	13.48	1.41	807.97	1.84
-10.00	814.66	492.38	17.79	1.65	1,033.79	2.10
-5.00	1,027.76	540.15	22.55	1.90	1,270.37	2.35
0.00	1,276.83	586.05	28.17	2.18	1,538.81	2.63
5.00	1,574.21	630.09	34.96	2.50	1,851.56	2.94
10.00	1,929.63	669.91	43.19	2.88	2,217.05	3.31

CONDENSING TEMP. 55 °C**(SUBCOOLING : 0 K, RETURN TEMP.: 32 °C)**

Evaporating temperature °C	Cooling capacity	Power consumption	Gas flow rate	Cooling Efficiency	Heating capacity +/-	Heating Efficiency
	+/-5%	+/-5%	+/-5%	+/- 7%	5% *	+/- 7%
	W	W	kg/h	W/W	W	W/W
-15.00	413.31	396.65	9.92	1.04	570.69	1.44
-10.00	648.99	493.29	15.65	1.32	870.38	1.76
-5.00	863.19	565.61	20.92	1.53	1,125.56	1.99
0.00	1,089.11	629.09	26.56	1.73	1,382.15	2.20
5.00	1,347.36	690.25	33.09	1.95	1,665.72	2.41
10.00	1,651.90	750.66	40.93	2.20	1,991.31	2.65

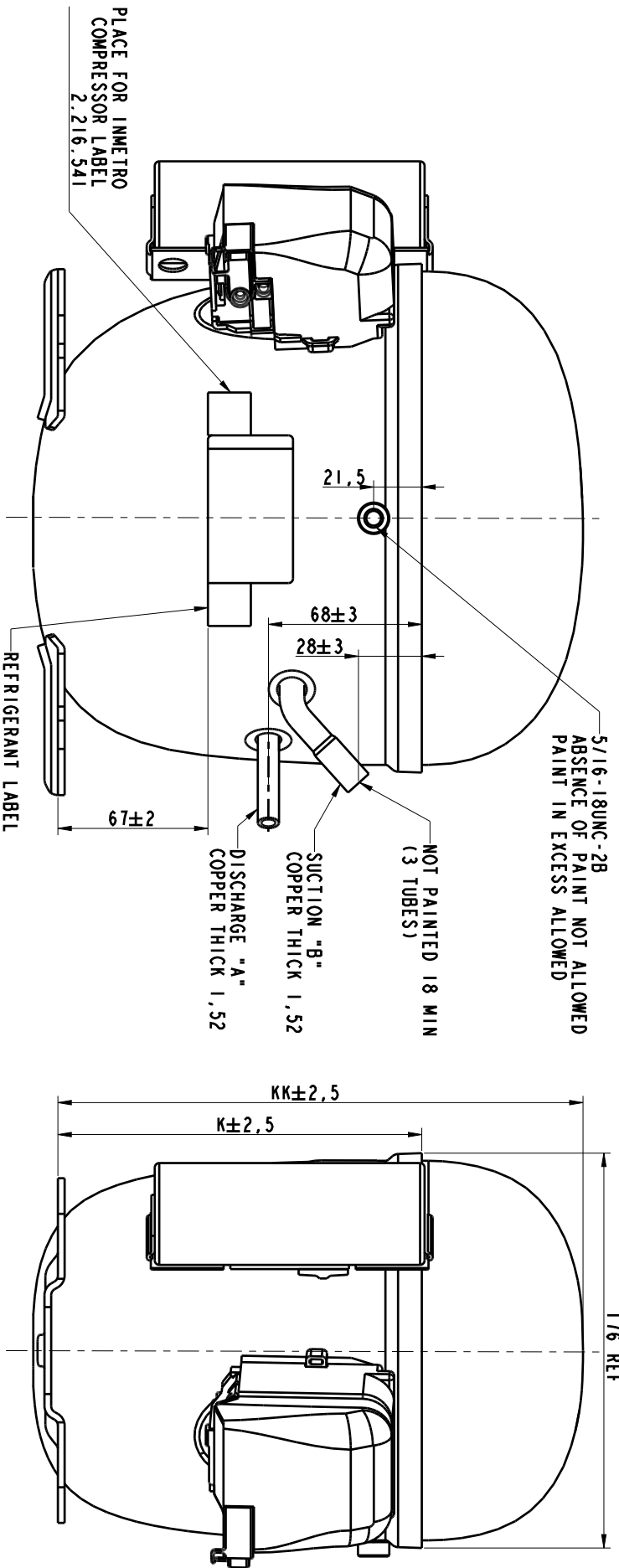
ELECTRICAL ACCESSORIES

Kit:	1
Starter device:	CURRENT RELAY
Engineering code:	MTRP-0048
Run capacitor:	--
Starting capacitor:	64-77

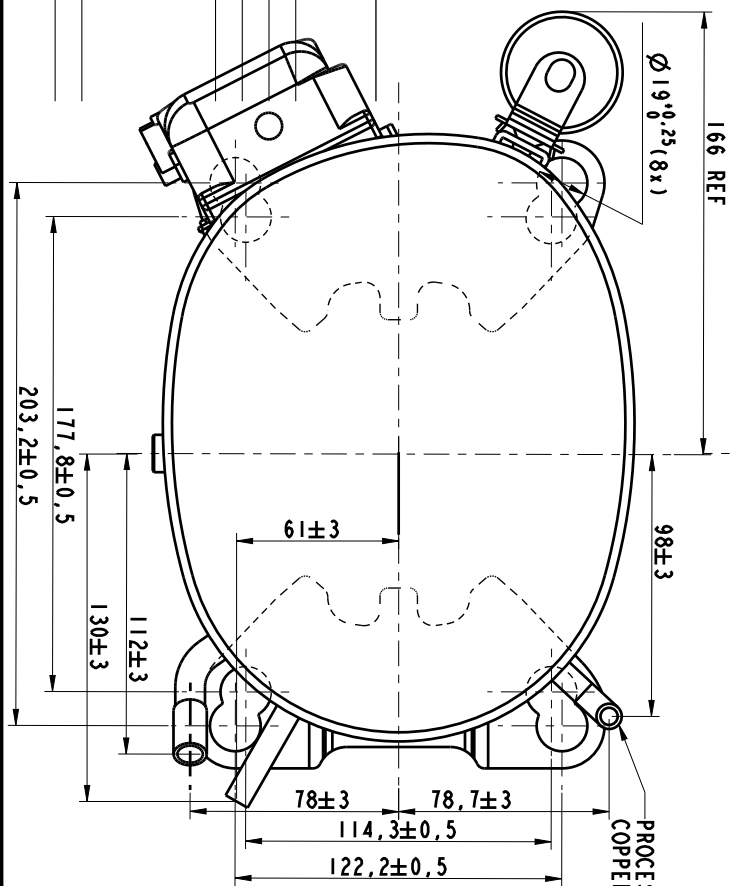
Thermal protector: T0634/G6**Institutes approved for this electric kit:**

If purchased without electricals consult Embraco to verify the supplier of electricals approved for this compressor

MECHANICAL ACCESSORIES**Rubber damper:** Yes**Metal bushing:** Optional



ECM	REVISION	LO	BY	APP	DATE
..	ADDED HANGER TAB	..	..	..	21.11.2005
507590	1	..	..	PV VP	16.03.2006
511948	2	..	..	MR RR	24.6.2008
513311	3	..	..	AP RR	12.03.2009
517385	4	..	..	LF JK	13.05.2011
305537	5	..	..	C6 DG MG	31.07.2013



KK	K	A	B	C	SHELLTYPE	MODELS
234	162.5					213.06
220	148.5	6.42-6.5 X23 DEEP	9.6-9.67 X22 DEEP	6.42-6.5 X23 DEEP	212.06	NT6215Z (N) NT6217Z (N)
207	135.5				211.06	NT6215Z (G/C)

MATERIAL :		NAME		GEN. TOL. :	
CODE :		NT EXTERNAL VIEW		ANG. TOL. :	
DRAWN : P. VALERO 01.04.2005		CSIR PIN FUSITE		SCALE : 1:2	
APP. : VALERO 01.04.2005		REPLACE		No.	
ECM : ECM, NUMBER		1.960.884			

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