



Model: NJ9238GK
Code: 943RV11

embraco POWER IN.
CHANGE ON

Type:	On-off
Voltage [V] / Frequency [Hz] / Phases	230 V 50 Hz 1 ~
Refrigerant:	R-404A
Application:	MBP

Motor type:	CSCR
Starting torque:	HST
HP:	1 1/2
Displacement:	32.67 cm ³

OPERATING CONDITION

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
3,832.50 W	2,177.54 W	145.35 kg/h	1.76 W/W

APPLICATION

Evaporating temperature range:	-20 to 0 °C	Cooling type:	Fan Cooling
Permanent operating temperature (peak) :	55 (60) °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):	5.4 Ω +/- 8%	Run winding resistance at 25°C (77°F):	1.75 Ω +/- 8%
FLA - full load amperage L/MBP [A] 50 Hz / 60 Hz:	- / -	LRA (A) 50 Hz / 60 Hz:	43 / -
		FLA - full load amperage HBP [A] 50 Hz / 60 Hz:	- / -

MECHANICAL DATA

Bore:	41.77 mm	Stroke:	11.93 mm
		Displacement:	32.67 cm ³

OTHER INFORMATION

Weight:	22.1 kg	Oil charge:	750 ml
Lubricant type:	Polyolester ISO22	Nitrogen charge:	Yes

EXTERNAL SETTINGS

	Shape	Material	Diameter [mm]
-			
Suction connector	Vertical	Copper	12.77
Discharge connector	Slanted J	Copper	8.00
Process connector	Vertical	Copper	6.42
Base plate:	American Standard	Tray holder:	No

PERFORMANCES AT STANDARD CHECK-POINTS

Checkpoint	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
EN12900 MBP	2,416.44	1,511.32	72.57	1.60	3,156.49	2.09

* 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
-20.00	1,951.02	1,179.57	46.90	1.65	2,518.24	2.13
-15.00	2,450.81	1,307.86	59.28	1.87	3,076.23	2.35
-10.00	3,046.98	1,439.35	74.23	2.12	3,723.02	2.59
-5.00	3,752.53	1,568.39	92.20	2.39	4,467.77	2.85
0.00	4,580.83	1,688.13	113.68	2.71	5,319.39	3.15

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
-20.00	1,602.15	1,218.31	43.35	1.32	2,204.19	1.81
-15.00	2,027.49	1,360.34	55.24	1.49	2,706.63	1.99
-10.00	2,531.30	1,512.21	69.53	1.67	3,282.34	2.17
-5.00	3,128.15	1,668.43	86.75	1.87	3,943.86	2.36
0.00	3,830.98	1,822.91	107.44	2.10	4,700.53	2.58

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
-20.00	1,232.72	1,257.10	38.67	0.98	1,835.37	1.46
-15.00	1,596.20	1,405.33	50.48	1.14	2,299.92	1.64
-10.00	2,011.73	1,572.61	64.22	1.28	2,808.01	1.79
-5.00	2,498.19	1,751.45	80.65	1.43	3,381.31	1.93
0.00	3,069.65	1,936.27	100.41	1.59	4,032.59	2.08

ELECTRICAL ACCESSORIES

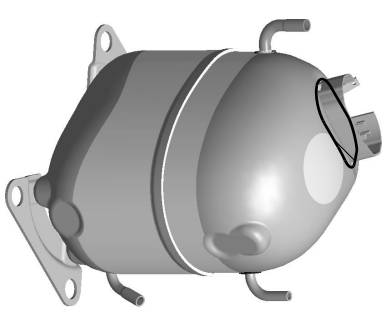
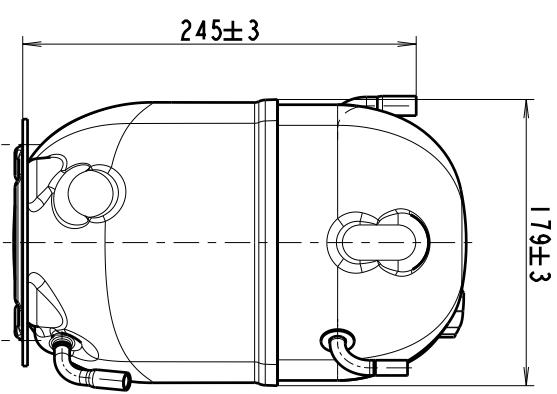
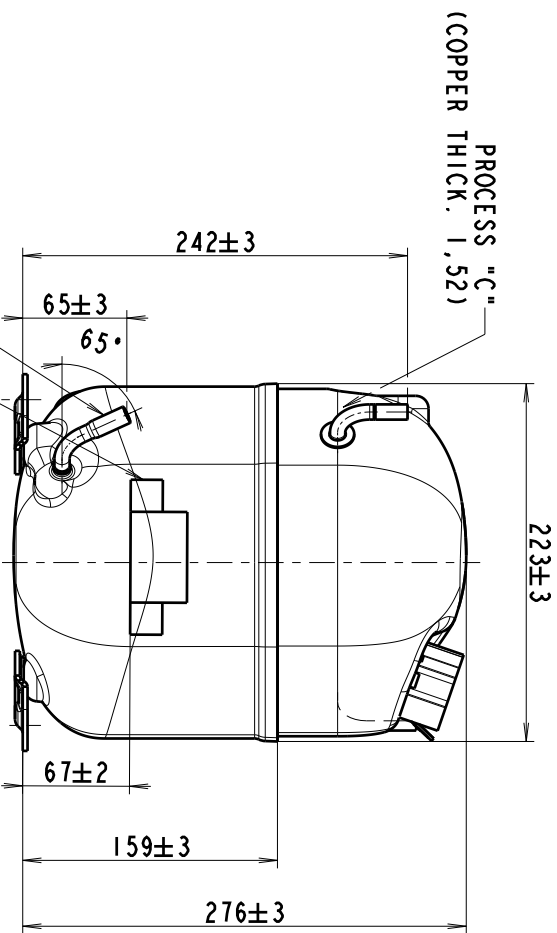
Kit:	1
Starter device:	VOLTAGE RELAY
Engineering code:	RVA3H3C-108
Run capacitor:	25
Starting capacitor:	130-156

Thermal protector: T0878/C9 OR MRA3764-**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
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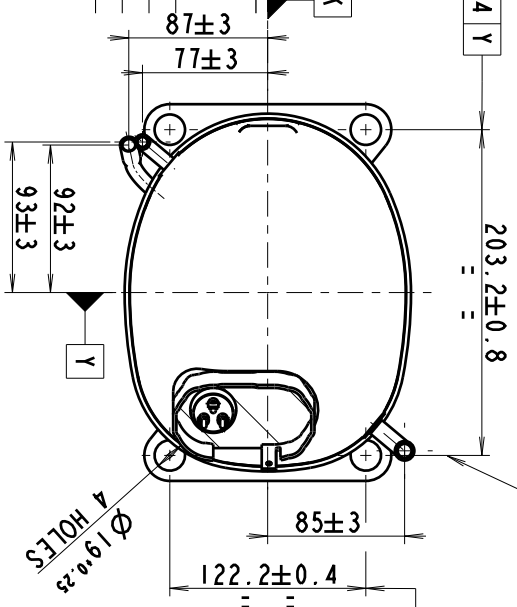


PROCESS "C"
(COPPER THICK. 1,52)

DISCHARGE "A"
(COPPER THICK. 1,52)

PLACE FOR INMETRO
COMPRESSOR LABEL
2.216.541

SUCTION "B"
(COPPER THICK. 1,52)



4 HOLES
Ø 19±0.25

ECM	REVISION	LO	BY	APP	DATE	
517908	1	CHANGED PROCESS TUBE	TAB	LF	JK	15.06.2012
519422	2	STANDARDISATION OF N.J. BOTTOM SHELL.	VIEWS	PT	JK	04.07.2012
28918	3	ALL BOMS CORRECTION. F. E. FROM 94301 TO 94311.	TAB	PT	JK	06.05.2013
30537	4	ADDED INMETRO LABEL	C6	DG	MG	01.08.2013

MATERIAL :		A		B		C		SHELL TYPE		MODELS	
CODE :		1. D. 8,0-8,08 X 23 DEEP		1. D. 12,77-12,85 X 22 DEEP		1. D. 6,42-6,5 X 22 DEEP		943.01 143.01 947.01 147.01		NJ2192GK NJ2212GK NJ9233GK NJ9238GK NJ17238E NJ17240F NJ92332E NJ9238E NJ92332G NJ2192GJ	
DRAWN : PETER TEPLICA 16.12.2009		A		B		C		SHELL TYPE		MODELS	
APP. : JAN KAKALEJCIN		1. D. 8,0-8,08 X 23 DEEP		1. D. 12,77-12,85 X 22 DEEP		1. D. 6,42-6,5 X 22 DEEP		943.01 143.01 947.01 147.01		NJ2192GK NJ2212GK NJ9233GK NJ9238GK NJ17238E NJ17240F NJ92332E NJ9238E NJ92332G NJ2192GJ	
ECM : 514846		A		B		C		SHELL TYPE		MODELS	
NAME		A		B		C		SHELL TYPE		MODELS	
NJ EXTERNAL VIEW		A		B		C		SHELL TYPE		MODELS	
HIGH		A		B		C		SHELL TYPE		MODELS	
GEN. TOL. :		A		B		C		SHELL TYPE		MODELS	
ANG. TOL. :		A		B		C		SHELL TYPE		MODELS	
SCALE : 1:3		A		B		C		SHELL TYPE		MODELS	
REPLACE		A		B		C		SHELL TYPE		MODELS	
No.		A		B		C		SHELL TYPE		MODELS	
1.960.838 REV.6		A		B		C		SHELL TYPE		MODELS	
1.960.838		A		B		C		SHELL TYPE		MODELS	

embraco

NJ EXTERNAL VIEW

HIGH

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