

## NL8.4CNX.2 LBP/MBP Compressor R290 115V 60Hz

### General

Code number	105H6090
Approvals	UL984
Compressors on pallet	80

### Application

Application	LBP/MBP			
	Hz	50	60	
Frequency	Hz	50	60	
Evaporating temperature	°F	-	-40 to 45	
Voltage range	V	-	95 - 135	
Max. condensing temperature continuous (short)	°F	-	131 (149)	
Max. winding temperature continuous (short)	°F	-	257 (275)	

### Cooling requirements

Frequency	Hz	50			60		
		LBP	MBP	HBP	LBP	MBP	HBP
90°F		-	-	-	F <sub>2</sub>	F <sub>2</sub>	-
100°F		-	-	-	F <sub>2</sub>	F <sub>2</sub>	-
110°F		-	-	-	F <sub>2</sub>	F <sub>2</sub>	-
Remarks on application:							

### Motor

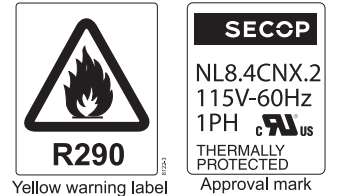
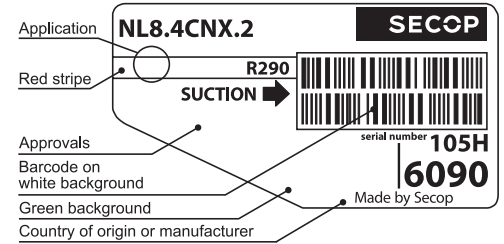
Motor type	CSIR		
LRA (rated after 4 sec. UL984), HST   LST	A	26.4	-
Cut in Current, HST   LST	A	26.4	-
Resistance, main   start winding (77°F)	Ω	1.3	7.0

### Design

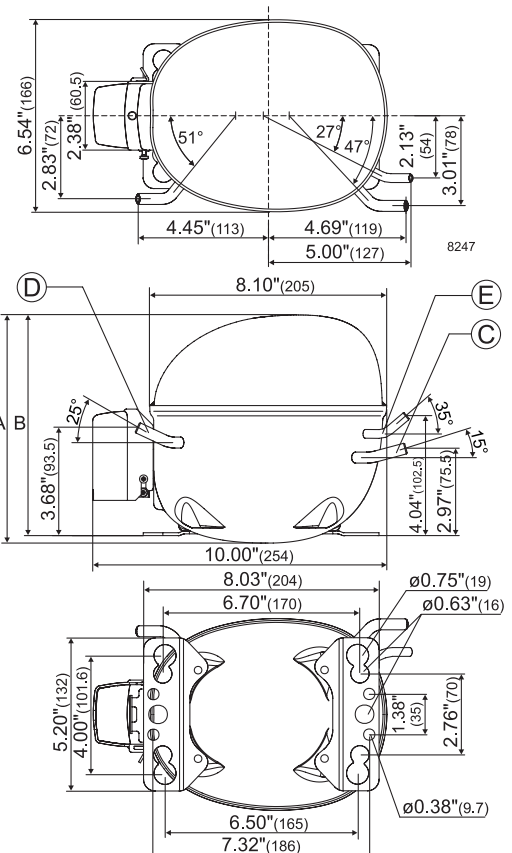
Displacement	cu.in	0.51
Oil quantity (type)	fl.oz.	9.13 (polyolester)
Maximum refrigerant charge	oz.	5.3
Free gas volume in compressor	fl.oz.	78.1
Weight without electrical equipment	lbs.	23.1

### Dimensions

Height	inch	A	7.99
		B	7.76
		B1	-
		B2	-
Suction connector	location, I.D. in.   angle	C	0.320-0.327   15°
		material   comment	Copper   Rubber plug
Process connector	location, I.D. in.   angle	D	0.252-0.259   25°
		material   comment	Copper   Rubber plug
Discharge connector	location, I.D. in.   angle	E	0.252-0.259   35°
		material   comment	Copper   Rubber plug
Oil cooler connector	location, I.D. in.   angle	F	-
		material   comment	-
Remarks:			



- S = Static cooling normally sufficient
- O = Oil cooling
- F<sub>1</sub> = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
- F<sub>2</sub> = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficient
- = not applicable in this area



**ASHRAE LBP**

115V, 60Hz, fan cooling F<sub>2</sub>

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	32	40	41	45	50	59
Capacity in BTU/h		656	939	1268	1534	1657	2120	2670	2918	3322	4089	4258	4258	4987	5489		
Power cons. in W		217	253	291	319	331	372	414	430	454	493	501	501	530	547		
Current cons. in A		3.38	3.57	3.80	3.98	4.06	4.35	4.66	4.79	4.98	5.29	5.36	5.36	5.60	5.75		
EER in BTU/Wh		3.02	3.72	4.36	4.81	5.01	5.70	6.46	6.79	7.31	8.29	8.50	8.50	9.41	10.04		

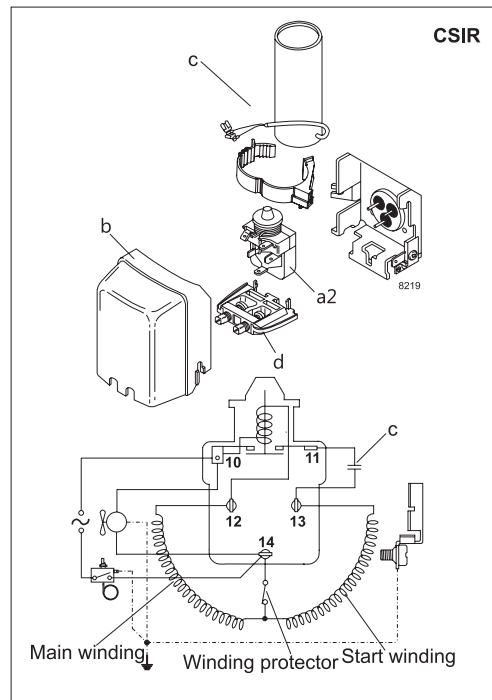
**ASHRAE MBP/HBP**

115V, 60Hz, fan cooling F<sub>2</sub>

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	32	40	41	45	50	59
Capacity in BTU/h		593	848	1145	1384	1496	1913	2408	2631	2995	3684	3836	4490	4577	4940		
Power cons. in W		217	253	291	319	331	372	414	430	454	493	501	530	533	547		
Current cons. in A		3.38	3.57	3.80	3.98	4.06	4.35	4.66	4.79	4.98	5.29	5.36	5.60	5.63	5.75		
EER in BTU/Wh		2.73	3.36	3.94	4.34	4.52	5.14	5.82	6.12	6.59	7.47	7.66	8.47	8.58	9.03		

**EN 12900 Household (CECOMAF)\*** 115V, 60Hz, fan cooling F<sub>2</sub>

Evap. temp. in °F	-49	-40	-30	-20	-13	-10	0	10	14	20	30	32	40	41	45	50	59
Capacity in W		193	268	357	429	462	587	735	801	909	1112	1157	1348	1373	1478		
Power cons. in W		220	251	284	307	318	352	386	399	418	448	454	475	478	487		
Current cons. in A		3.40	3.56	3.75	3.90	3.97	4.21	4.45	4.55	4.70	4.94	4.98	5.16	5.18	5.26		
COP in W/W		0.88	1.07	1.26	1.40	1.46	1.67	1.90	2.01	2.17	2.48	2.55	2.83	2.87	3.03		



Accessories for	NL8.4CNX.2	Figure	Code number
PTC starting device	1/4 in. spade connect.	a1	—
	3/16 in. spade connect.		—
Starting relay	1/4 in. spade connect.	a2	117U7013
Cover		b	103N2011
Start. capacitor 125 µF	1/4 in. spade connect.	c	117U5035
Cord relief		d	103N1010

Test conditions	ASHRAE LBP	ASHRAE MBP/HBP	EN 12900/CECOMAF*
Condensing temp.	130°F	130°F	113°F
Ambient temp.	90°F	90°F	90°F
Suction gas temp.	90°F	95°F	90°F
Liquid temperature	90°F	115°F	no subcooling

Mounting accessories		Code number
Bolt joint for one comp.	Ø: 5/8 in.	118-1917
Bolt joint in quantities	Ø: 5/8 in.	118-1918
Snap-on in quantities	Ø: 5/8 in.	118-1919

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