

## TL4CNX.2 LBP/MBP Compressor R290 115V 60Hz

### General

Code number	102H3490
Approvals	UL984
Compressors on pallet	125

### 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

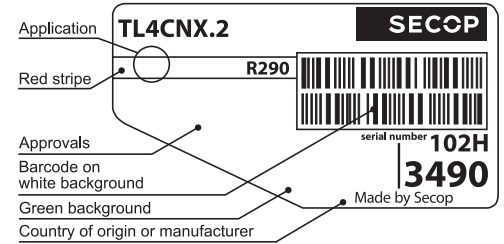
Motor type	CSIR		
LRA (rated after 4 sec. UL984), HST   LST	A	18.5	-
Cut in Current, HST   LST	A	18.5	-
Resistance, main   start winding (77°F)	Ω	2.7	6.1

### Design

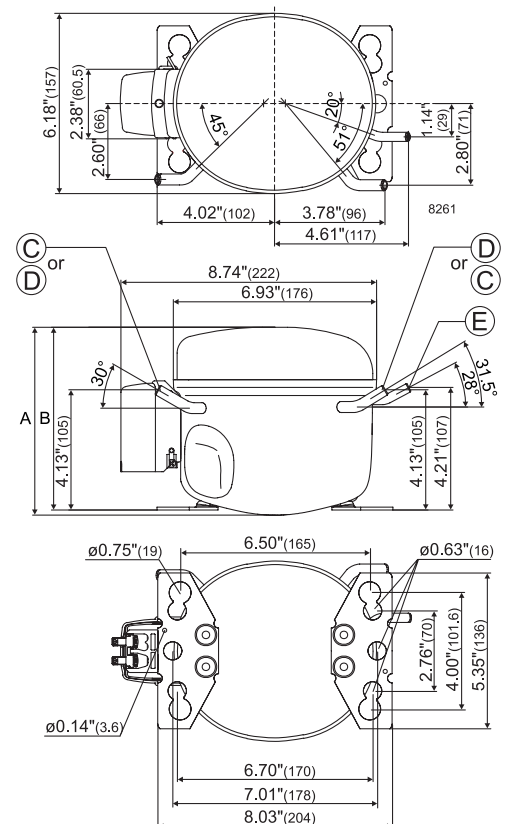
Displacement	cu.in	0.29
Oil quantity (type)	fl.oz.	9.5 (polyolester)
Maximum refrigerant charge	oz.	5.3
Free gas volume in compressor	fl.oz.	54.1
Weight without electrical equipment	lbs.	16.5

### Dimensions

Height	inch	A	6.81
		B	6.65
		B1	-
		B2	-
Suction connector	location, I.D. in.   angle	C	0.252-0.259   30°
	material   comment		Copper   Rubber plug
Process connector	location, I.D. in.   angle	D	0.252-0.259   31.5°
	material   comment		Copper   Rubber plug
Discharge connector	location, I.D. in.   angle	E	0.189-0.193   28°
	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		237	380	539	664	722	936	1190	1305	1492	1850	1928	2271	2086	2509		
Power cons. in W		114	132	150	162	168	185	202	209	218	233	236	247	248	253		
Current cons. in A		2.06	2.13	2.22	2.29	2.32	2.43	2.55	2.59	2.66	2.77	2.79	2.87	2.88	2.92		
EER in BTU/Wh		2.07	2.88	3.60	4.09	4.31	5.05	5.89	6.25	6.83	7.93	8.17	9.21	8.42	9.93		

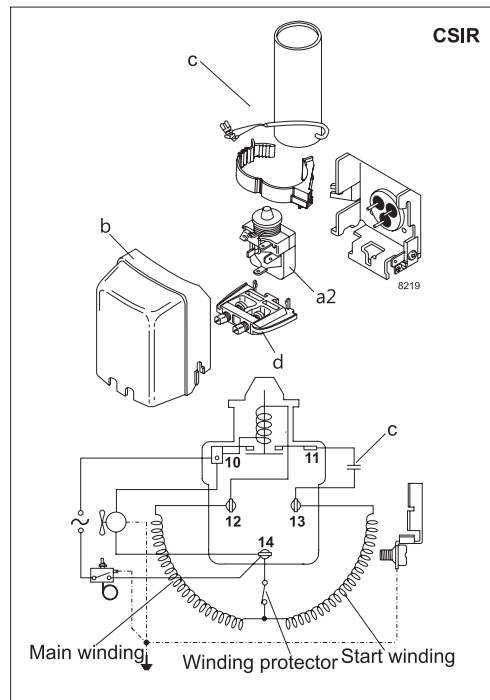
**ASHRAE MBP/HBP**

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		214	343	486	599	651	845	1074	1177	1345	1666	1737	2045	2086	2258		
Power cons. in W		114	132	150	162	168	185	202	209	218	233	236	247	248	253		
Current cons. in A		2.06	2.13	2.22	2.29	2.32	2.43	2.55	2.59	2.66	2.77	2.79	2.87	2.88	2.92		
EER in BTU/Wh		1.87	2.60	3.25	3.69	3.89	4.56	5.31	5.63	6.16	7.14	7.36	8.29	8.42	8.94		

**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		82	114	153	185	200	257	325	356	407	504	526	618	631	682		
Power cons. in W		118	132	147	157	161	175	189	194	201	213	215	223	223	227		
Current cons. in A		2.08	2.14	2.20	2.26	2.28	2.37	2.46	2.49	2.54	2.63	2.64	2.70	2.71	2.73		
COP in W/W		0.69	0.87	1.05	1.18	1.24	1.47	1.72	1.84	2.02	2.37	2.45	2.78	2.82	3.01		



Accessories for	TL4CNX.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	117U7005
Cover		b	103N2011
Start. capacitor 240 µF	1/4 in. spade connect.	c	117U5023
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

Nidec GA Compressors accepts no responsibility for possible errors in catalogs, brochures, and other printed material. Nidec GA Compressors reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without consequential changes being necessary to specifications already agreed. All trademarks in this material are the property of the respective companies. Secop and the Secop logotype are trademarks of Nidec Global Appliance Germany GmbH. All rights reserved. [www.secop.com](http://www.secop.com)