

SLVE18CN Variable Speed Drive Compressor R290, 208-240V 50/60Hz - with 105N473x Series Controllers



General

Code number (without electronic unit)	104H8841
Electronic unit - Standard, 700±20 mm cable length	105N4730, 8 pcs: 105N4731 (with PFC)
Approvals: EN 60335-2-34 with Annex AA, CCC, UL 60335-2-34 with Annex AA	
Compressors on pallet	80
Remarks: PFC = power factor correction according to EN 61000-3-2:2014	

Application

Application	Hz	LBP/MBP	
		50	60
Frequency	Hz	50	60
Evaporating temperature	°C	-45 to 10	-45 to 10
Voltage range / frequency	V/Hz	180 - 270	180 - 270
Max. condensing temperature continuous (short)	°C	60 (65)	60 (65)
Max. winding temperature continuous (short)	°C	125 (135)	125 (135)

Cooling requirements

Frequency	Hz	50			60		
		LBP	MBP	HBP	LBP	MBP	HBP
32°C		F ₂	F ₂	-	F ₂	F ₂	-
38°C		F ₂	F ₂	-	F ₂	F ₂	-
43°C		F ₂	F ₂	-	F ₂	F ₂	-

Features

Speed range	rpm	2200 - 4500
Speed control		AEO, frequency, serial com.
Protections		current, speed, temperature
Protection class (electronic unit)		IP54

Motor

Motor type		permanent magnet
LRA (rated after 4 sec. UL984)	A	electronic cut off
Maximum current	A	7.0
Resistance, all 3 windings (25°C)	Ω	3.9

Design

Displacement	cm ³	17.70
Oil quantity (type)	cm ³	550 (polyolester)
Maximum refrigerant charge (tech. limit)	g	550
Free gas volume in compressor	cm ³	1460
Weight - Compressor/Electronic unit	kg	14.2 / 1.2

Dimensions

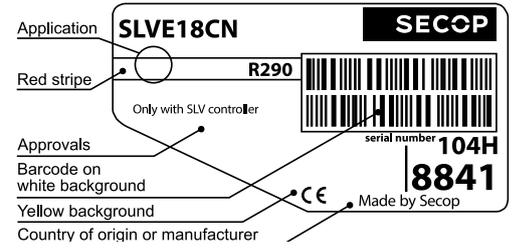
Height	mm	A	219
		B	213
		B1	193
		B2	110
Suction connector	location/I.D. mm angle	C	10.2 37°
	material comment		Copper Rubber plug
Process connector	location/I.D. mm angle	D	6.2 37°
	material comment		Copper Rubber plug
Discharge connector	location/I.D. mm angle	E	6.2 37°
	material comment		Copper Rubber plug
Connector tolerance	I.D. mm		±0.09

Accessories

Cover	Code number	103N2008
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Mounting accessories

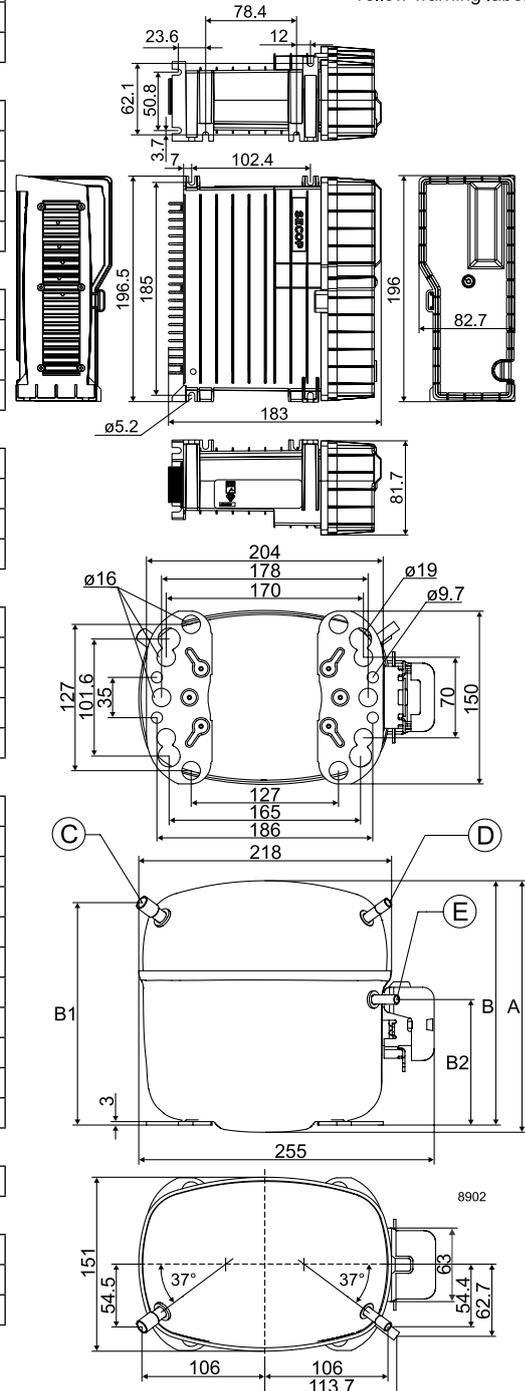
Bolt joint for one compressor	Ø: 16 mm	118-1958
Bolt joint in quantities	Ø: 16 mm	118-1961
Snap-on in quantities	Ø: 16 mm	118-1962



- S = Static cooling normally sufficient
- O = Oil cooling
- F₁ = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
- F₂ = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficient
- = not applicable in this area



Yellow warning label



LBP: ASHRAE 230V, 50/60Hz, fan cooling F₂

Speed (rpm)	2200	2400	2600	2800	3000	3500	4000	4500
Capacity [W]	663	720	772	820	868	955	1043	1130
Capacity [BTU/h]	2263	2458	2637	2801	2964	3262	3561	3859
Power cons. [W]	389	417	445	473	501	562	623	684
Current cons. [A]	1.81	1.98	2.13	2.25	2.36	2.61	2.85	3.09
COP [W/W]	1.70	1.73	1.74	1.73	1.73	1.70	1.67	1.65
EER [BTU/Wh]	5.81	5.89	5.93	5.92	5.92	5.81	5.72	5.64

Test conditions

Evaporation pressure	-23.3°C	-10°F
Condensing pressure	54.4°C	130°F
Liquid temperature	32.2°C	90°F
Return gas temperature	32.2°C	90°F

LBP: CECOMAF 230V, 50/60Hz, fan cooling F₂

Speed (rpm)	2200	2400	2600	2800	3000	3500	4000	4500
Capacity [W]	494	537	576	611	647	711	774	837
Capacity [BTU/h]	1687	1832	1966	2088	2210	2427	2643	2859
Power cons. [W]	375	401	428	455	482	539	597	655
Current cons. [A]	1.74	1.91	2.06	2.17	2.29	2.51	2.74	2.96
COP [W/W]	1.32	1.34	1.34	1.34	1.34	1.32	1.30	1.28
EER [BTU/Wh]	4.50	4.56	4.59	4.59	4.59	4.50	4.43	4.37

Test conditions

Evaporation pressure	-25°C	-13°F
Condensing pressure	55°C	131°F
Liquid temperature	55°C	131°F
Return gas temperature	32°C	90°F

LBP: EN12900

Speed (rpm)	2200	2400	2600	2800	3000	3500	4000	4500
Capacity [W]	350	387	417	440	462	504	546	
Capacity [BTU/h]	1196	1323	1425	1501	1578	1720	1863	
Power cons. [W]	265	283	302	321	340	376	411	
Current cons. [A]	1.25	1.39	1.51	1.62	1.72	1.83	1.94	
COP [W/W]	1.32	1.37	1.38	1.37	1.36	1.34	1.33	
EER [BTU/Wh]	4.52	4.67	4.71	4.67	4.64	4.58	4.53	

Test conditions

Evaporation pressure	-35°C	-31°F
Condensing pressure	40°C	104°F
Liquid temperature	40°C	104°F
Return gas temperature	20°C	68°F

MBP: ASHRAE 230V, 50/60Hz, fan cooling F₂

Speed (rpm)	2200	2400	2600	2800	3000	3500	4000	4500
Capacity [W]	1194	1296	1390	1477	1563	1737	1911	2085
Capacity [BTU/h]	4079	4426	4747	5043	5339	5933	6526	7120
Power cons. [W]	547	586	625	664	703	797	891	985
Current cons. [A]	2.52	2.73	2.90	3.04	3.17	3.59	4.00	4.42
COP [W/W]	2.18	2.21	2.22	2.22	2.22	2.18	2.14	2.12
EER [BTU/Wh]	7.46	7.55	7.60	7.59	7.59	7.44	7.32	7.23

Test conditions

Evaporation pressure	-6.7°C	20°F
Condensing pressure	54.4°C	130°F
Liquid temperature	46.1°C	115°F
Return gas temperature	35°C	95°F

MBP: CECOMAF 230V, 50/60Hz, fan cooling F₂

Speed (rpm)	2200	2400	2600	2800	3000	3500	4000	4500
Capacity [W]	950	1031	1106	1175	1244	1380	1516	1652
Capacity [BTU/h]	3245	3521	3777	4013	4248	4713	5178	5644
Power cons. [W]	521	558	596	633	670	758	847	935
Current cons. [A]	2.40	2.61	2.78	2.91	3.04	3.43	3.81	4.20
COP [W/W]	1.82	1.85	1.86	1.86	1.86	1.82	1.79	1.77
EER [BTU/Wh]	6.23	6.31	6.34	6.34	6.34	6.21	6.12	6.04

Test conditions

Evaporation pressure	-10°C	14°F
Condensing pressure	55°C	131°F
Liquid temperature	55°C	131°F
Return gas temperature	32°C	90°F

MBP: EN12900 230V, 50/60Hz, fan cooling F₂

Speed (rpm)	2200	2400	2600	2800	3000	3500	4000	4500
Capacity [W]	1037	1127	1209	1283	1357	1508	1659	1810
Capacity [BTU/h]	3540	3849	4130	4381	4633	5150	5666	6183
Power cons. [W]	468	501	535	568	602	682	761	841
Current cons. [A]	2.16	2.36	2.52	2.64	2.77	3.11	3.45	3.79
COP [W/W]	2.22	2.25	2.26	2.26	2.25	2.21	2.18	2.15
EER [BTU/Wh]	7.56	7.68	7.72	7.71	7.70	7.56	7.44	7.35

Test conditions

Evaporation pressure	-10°C	14°F
Condensing pressure	45°C	113°F
Liquid temperature	45°C	113°F
Return gas temperature	20°C	68°F

Optimization Point 230V, 50/60Hz, fan cooling F₂

Speed (rpm)	2200	2400	2600	2800	3000	3500	4000	4500
Capacity [W]	640	701	755	802	848	930	1012	1094
Capacity [BTU/h]	2186	2394	2578	2737	2897	3177	3457	3737
Power cons. [W]	323	346	369	393	416	465	514	563
Current cons. [A]	1.51	1.67	1.80	1.91	2.02	2.20	2.38	2.56
COP [W/W]	1.98	2.03	2.04	2.04	2.04	2.00	1.97	1.94
EER [BTU/Wh]	6.76	6.91	6.98	6.97	6.97	6.83	6.73	6.64

Test conditions

Evaporation pressure	-25°C	-13°F
Condensing pressure	35°C	95°F
Liquid temperature	35°C	95°F
Return gas temperature	32°C	90°F

Optimization Point 230V, 50/60Hz, fan cooling F₂

Speed (rpm)	2200	2400	2600	2800	3000	3500	4000	4500
Capacity [W]	1079	1173	1259	1336	1412	1570	1727	1885
Capacity [BTU/h]	3686	4007	4299	4561	4823	5361	5899	6437
Power cons. [W]	468	501	535	568	602	682	761	841
Current cons. [A]	2.16	2.36	2.52	2.64	2.77	3.11	3.45	3.79
COP [W/W]	2.31	2.34	2.35	2.35	2.35	2.30	2.27	2.24
EER [BTU/Wh]	7.88	7.99	8.04	8.02	8.01	7.87	7.75	7.65

Test conditions

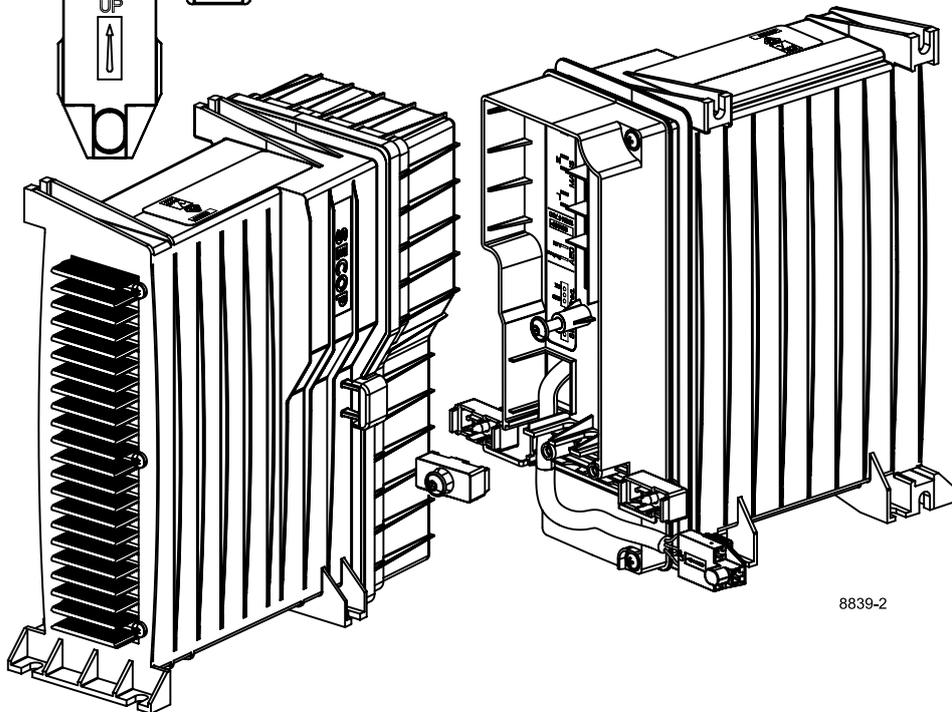
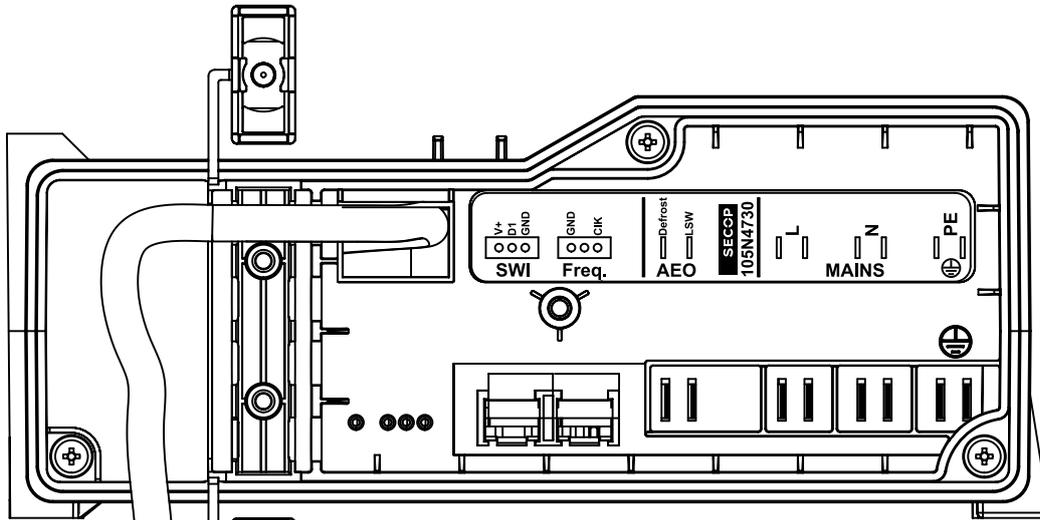
Evaporation pressure	-10°C	14°F
Condensing pressure	45°C	113°F
Liquid temperature	45°C	113°F
Return gas temperature	32°C	90°F

Optimization Point 230V, 50/60Hz, fan cooling F₂

Speed (rpm)	2200	2400	2600	2800	3000	3500	4000	4500
Capacity [W]		1990	2134	2266	2398	2672	2946	3220
Capacity [BTU/h]		6795	7287	7739	8191	9127	10063	10998
Power cons. [W]		571	609	648	686	780	875	969
Current cons. [A]		2.67	2.84	2.97	3.10	3.52	3.93	4.35
COP [W/W]		3.48	3.50	3.50	3.50	3.43	3.37	3.32
EER [BTU/Wh]		11.89	11.96	11.95	11.94	11.7	11.51	11.35

Test conditions

Evaporation pressure	5°C	41°F
Condensing pressure	45°C	113°F
Liquid temperature	45°C	113°F
Return gas temperature	32°C	90°F

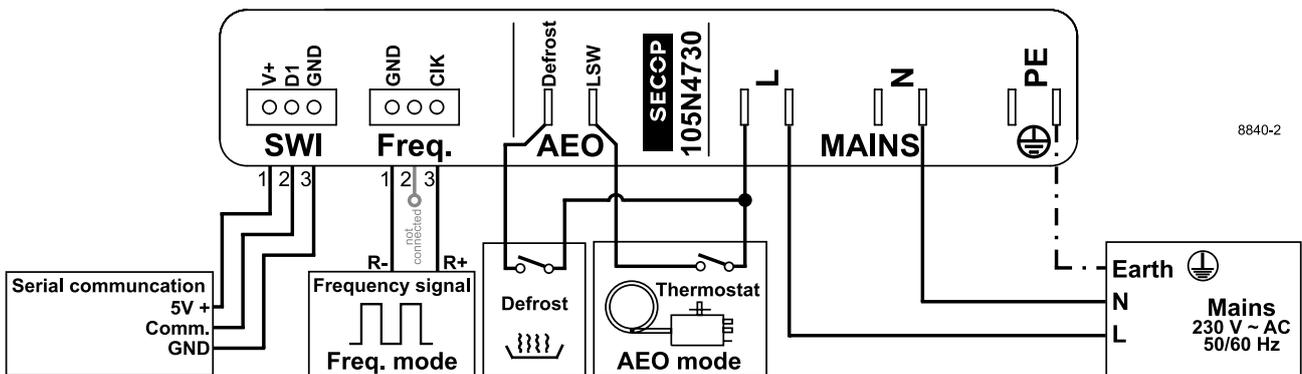


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RAST 2.5

Spade connectors 6.3 x 0.8



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