Secop is the first choice for partners looking for leading-edge refrigeration solutions and a premium customer experience.

Secop delivers advanced refrigeration compressors and controls, providing customers tailored sustainable solutions for light commercial, battery-driven, and special cooling applications.

HERMETIC COMPRESSORS

SECOP

AC VOLTAGE

Energy Optimized

Wide Application Range

Stationary Cooling

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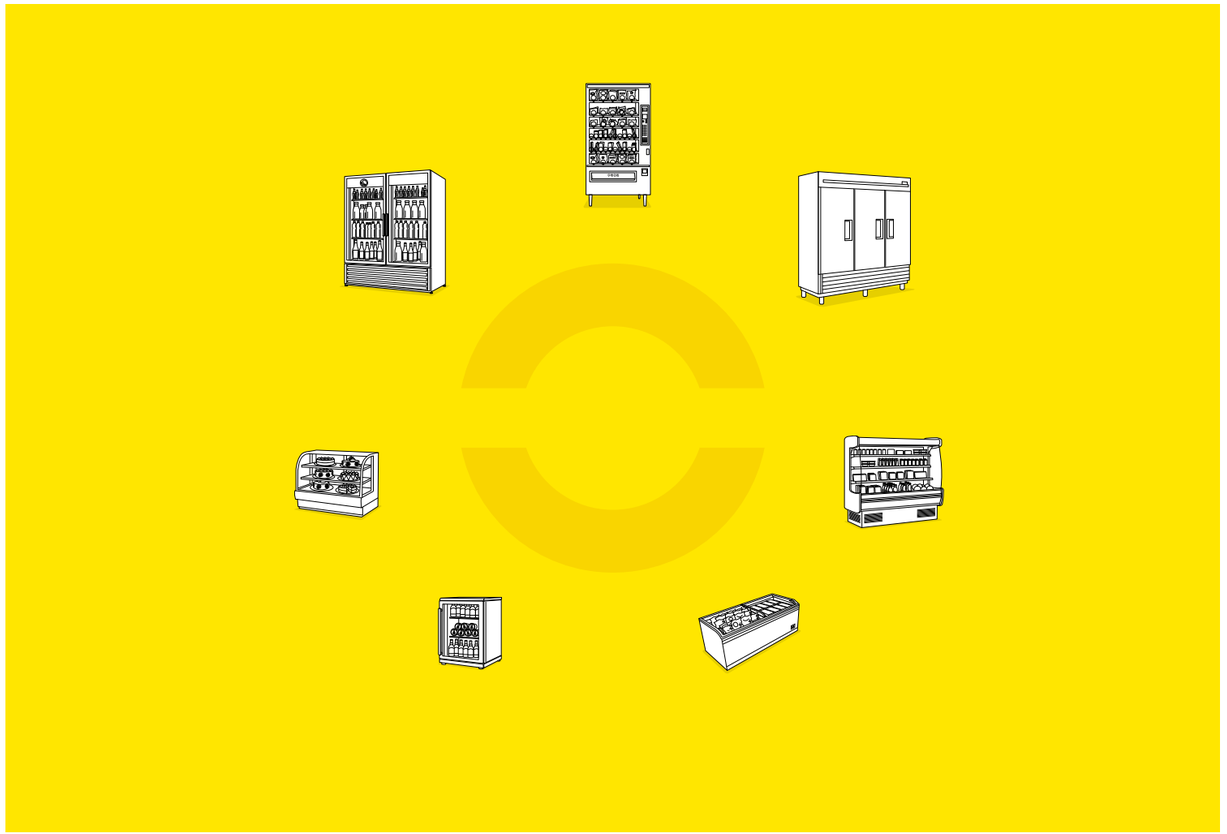
VARIABLE-SPEED DRIVE COMPRESSORS



R290

100–127 V
208 / 220–240 V
50 / 60 Hz

NLV-Series · R290 · 100-240 V · 220-240 V · 50/60 Hz

Compressor	Code number	Application	ASHRAE Capacity [W] Tc=54.4°C, Tliq=32.2°C, Tsuc=32.2°C Evaporating temperature [°C]						ASHRAE LBP rating point -23.3°C / 54.4°C		ASHRAE MBP rating point -6.7°C / 54.4°C		ASHRAE HBP rating point 7.2°C / 54.4°C		Displacement	Voltage and frequencies (dual frequency type with 50/60 Hz)
			-35	-15	-5	0	10	15	Cooling capacity	COP	Cooling capacity	COP	Cooling capacity	COP		
									[W]	[W/W]	[W]	[W/W]	[W]	[W/W]	[cm³]	
NLV8.0CN 2000 rpm	105H7808	L/MBP	150	388	584	703	–	–	265	1.73	489	2.26	804	3.23	7.96	90-270 V, 50/60 Hz
NLV8.0CN 4500 rpm	105H7808	L/MBP	–	826	1252	1510	–	–	558	1.72	1049	2.29	1731	3.14	7.96	90-270 V, 50/60 Hz
NLV10CN 2000 rpm	105H7003	L/MBP	203	509	758	907	–	–	352	1.74	636	2.20	1031	3.08	10.09	90-270 V, 50/60 Hz
NLV10CN 4500 rpm	105H7003	L/MBP	–	1085	1617	1941	–	–	749	1.76	1357	2.22	2217	2.93	10.09	90-270 V, 50/60 Hz
NLV12.6CN 2000 rpm	105H6365	L/MBP	246	605	897	1076	–	–	422	1.68	753	2.17	1230	2.86	12.55	180-270 V, 50/60 Hz
NLV12.6CN 4500 rpm	105H6365	L/MBP	–	1344	1995	2393	–	–	938	1.66	1675	2.05	2736	2.62	12.55	180-270 V, 50/60 Hz
NLV15CN 2000 rpm ●	105H7520	L/MBP					–	–	521	1.68	886	2.07				180-270 V, 50/60 Hz
NLV15CN 5000 rpm ●	105H7520	L/MBP	–				–	–	1320	1.66	1927	2.01				180-270 V, 50/60 Hz
NLV8.0CN 2000 rpm	105H7809	L/MBP	150	388	584	703	–	–	265	1.73	489	2.26	804	3.23	7.96	90-270 V, 50/60 Hz
NLV8.0CN 4500 rpm	105H7809	L/MBP	–	826	1252	1510	–	–	558	1.72	1049	2.29	1731	3.14	7.96	90-270 V, 50/60 Hz
NLV10CN 2000 rpm	105H7004	L/MBP	203	509	758	907	–	–	352	1.74	636	2.20	1031	3.08	10.09	90-270 V, 50/60 Hz
NLV10CN 4500 rpm	105H7004	L/MBP	–	1085	1617	1941	–	–	749	1.76	1357	2.22	2217	2.93	10.09	90-270 V, 50/60 Hz
NLV12.6CN 2000 rpm	105H6366	L/MBP	246	605	897	1076	–	–	422	1.68	753	2.17	1230	2.86	12.55	180-270 V, 50/60 Hz
NLV12.6CN 4500 rpm	105H6366	L/MBP	–	1344	1995	2393	–	–	938	1.66	1675	2.05	2736	2.62	12.55	180-270 V, 50/60 Hz

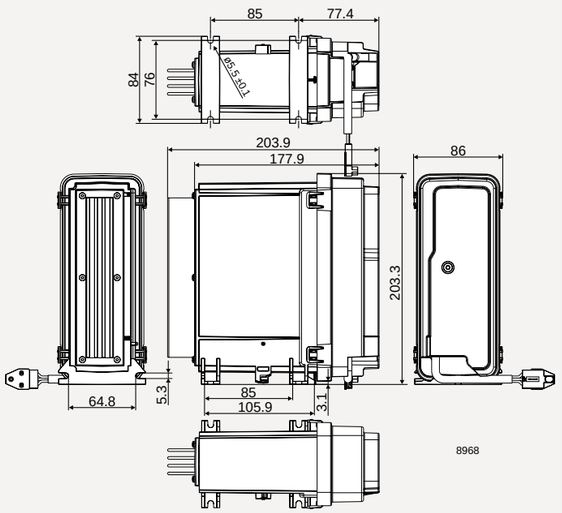
● Preliminary data, NLV15CN will be introduced in 2025

Power	Compressor Cooling (refer to data sheet)	CECOMAF Capacity [W] Tc=55°C, Tliq=55°C, Tsuc=32°C Evaporating temperature [°C]						CECOMAF LBP rating point -25°C / 55°C		CECOMAF MBP rating point -10°C / 55°C		CECOMAF HBP rating point 5°C / 55°C		Dimensions Height [mm]		Dimensions Connectors location/I.D. [mm]			Connection	
		-35	-15	-5	0	10	15	Cooling capacity	COP	Cooling capacity	COP	Cooling capacity	COP			Suction	Process	Dis-charge	Cord relief	Cover
[HP]								[W]	[W/W]	[W]	[W/W]	[W]	[W/W]	A (I.D.)	B (I.D.)	C (I.D.)	D (I.D.)	E (I.D.)		
1/4	F2	122	314	471	566	–	–	198	1.34	387	1.88	673	2.71	203	197	8.20	6.20	6.20	–	103N2008
1/2	F2	–	667	1010	1216	–	–	415	1.33	827	1.91	1446	2.67	203	197	8.20	6.20	6.20	–	103N2008
1/3	F2	165	412	612	732	–	–	264	1.35	505	1.84	865	2.59	203	197	8.20	6.20	6.20	–	103N2008
3/4	F2	–	878	1306	1565	–	–	560	1.37	1077	1.87	1856	2.51	203	197	8.20	6.20	6.20	–	103N2008
3/8	F2	199	489	723	867	–	–	316	1.30	598	1.81	1028	2.44	203	197	8.20	6.20	6.20	–	103N2008
5/6	F2	–	1086	1609	1927	–	–	703	1.29	1329	1.73	2287	2.25	203	197	8.20	6.20	6.20	–	103N2008
	F2					–	–							203	197	8.20	6.20	6.20	–	103N2008
	F2					–	–							203	197	8.20	6.20	6.20	–	103N2008
1/4	F2	122	314	471	566	–	–	198	1.34	387	1.88	673	2.71	203	197	8.20	6.50	6.50	–	103N2008
1/2	F2	–	667	1010	1216	–	–	415	1.33	827	1.91	1446	2.67	203	197	8.20	6.50	6.50	–	103N2008
1/3	F2	165	412	612	732	–	–	264	1.35	505	1.84	865	2.59	203	197	8.20	6.50	6.50	–	103N2008
3/4	F2	–	878	1306	1565	–	–	560	1.37	1077	1.87	1856	2.51	203	197	8.20	6.50	6.50	–	103N2008
3/8	F2	199	489	723	867	–	–	316	1.30	598	1.81	1028	2.44	203	197	8.20	6.50	6.50	–	103N2008
5/6	F2	–	1086	1609	1927	–	–	703	1.29	1329	1.73	2287	2.25	203	197	8.20	6.50	6.50	–	103N2008

NLV-Series Multi Purpose (MP) Controllers

Compressor	Code number	NLV 105N4910 Standard, PFC	NLV 105N4960 Multi Voltage, PFC	NLV 105N4962 Multi Voltage, PFC, US GFCI-Conformity
		Voltage range: 180-270 V, 50/60 Hz	**Voltage range:** 90-270 V, 50/60 Hz	**Voltage range:** 90-270 V, 50/60 Hz
		Inputs: Thermostat, defrost, frequency signal, serial, 2 relays	**Inputs:** Thermostat, defrost, frequency signal, serial, 2 relays	**Inputs:** Thermostat, defrost, frequency signal, serial, 2 relays
NLV8.0CN	105H7808	✓	✓	✓
NLV10CN	105H7003	✓	✓	✓
NLV12.6CN	105H6365	✓	✓	✓
NLV15CN	105H7520	–	–	–
NLV8.0CN	105H7809	✓	✓	✓
NLV10CN	105H7004	✓	✓	✓
NLV12.6CN	105H6366	✓	✓	✓

Compressor	Code number	NLV 105N4914 Standard, PFC	NLV 105N4964 Multi Voltage, PFC	NLV 105N4966 Multi Voltage, PFC, US GFCI-Conformity
		Voltage range: 180-270 V, 50/60 Hz	**Voltage range:** 90-270 V, 50/60 Hz	**Voltage range:** 90-270 V, 50/60 Hz
		Inputs: Thermostat, defrost, frequency signal, serial, 2 relays	**Inputs:** Thermostat, defrost, frequency signal, serial, 2 relays	**Inputs:** Thermostat, defrost, frequency signal, serial, 2 relays
NLV8.0CN	105H7808	–	–	–
NLV10CN	105H7003	–	–	–
NLV12.6CN	105H6365	–	–	–
NLV15CN	105H7520	✓	✓	✓
NLV8.0CN	105H7809	–	–	–
NLV10CN	105H7004	–	–	–
NLV12.6CN	105H6366	–	–	–



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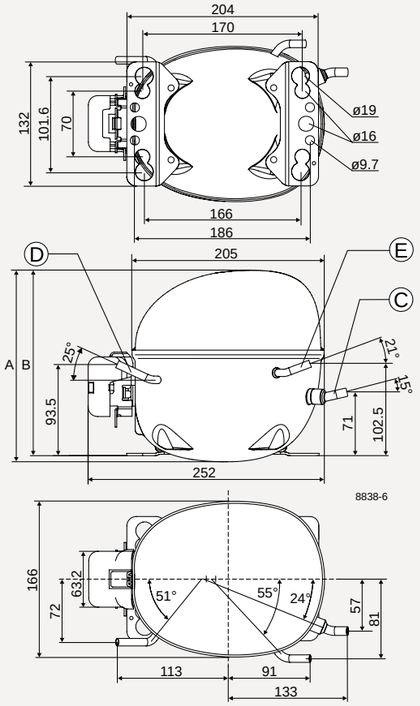


Natural Refrigerant

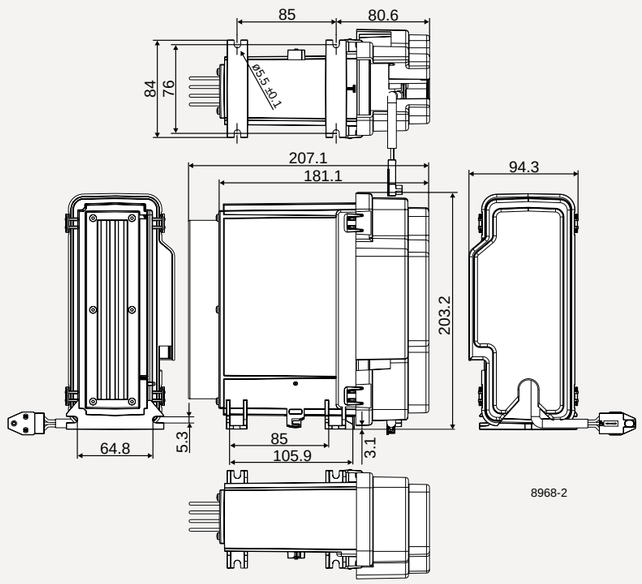
NLV-Series · R290 · 100-240 V · 50/60 Hz

Compressor	Code number	Application	ASHRAE Capacity [W] Tc=54.4°C, Tliq=32.2°C, Tsuc=32.2°C Evaporating temperature [°C]						ASHRAE LBP rating point -23.3°C / 54.4°C		ASHRAE MBP rating point -6.7°C / 54.4°C		ASHRAE HBP rating point 7.2°C / 54.4°C		Displacement	Voltage and frequencies (dual frequency type with 50/60 Hz)
			-35	-15	-5	0	10	15	Cooling capacity	COP	Cooling capacity	COP	Cooling capacity	COP		
									[W]	[W/W]	[W]	[W/W]	[W]	[W/W]	[cm³]	
NLV8.0CN 2000 rpm	105H7808	L/MBP	150	388	584	703	–	–	265	1.73	489	2.26	804	3.23	7.96	90-270 V, 50/60 Hz
NLV8.0CN 4500 rpm	105H7808	L/MBP	–	826	1252	1510	–	–	558	1.72	1049	2.29	1731	3.14	7.96	90-270 V, 50/60 Hz
NLV10CN 2000 rpm	105H7003	L/MBP	203	509	758	907	–	–	352	1.74	636	2.20	1031	3.08	10.09	90-270 V, 50/60 Hz
NLV10CN 4500 rpm	105H7003	L/MBP	–	1085	1617	1941	–	–	749	1.76	1357	2.22	2217	2.93	10.09	90-270 V, 50/60 Hz
NLV12.6CN 2000 rpm	105H6365	L/MBP	246	605	897	1076	–	–	422	1.68	753	2.17	1230	2.86	12.55	180-270 V, 50/60 Hz
NLV12.6CN 4500 rpm	105H6365	L/MBP	–	1344	1995	2393	–	–	938	1.66	1675	2.05	2736	2.62	12.55	180-270 V, 50/60 Hz
NLV8.0CN 2000 rpm	105H7809	L/MBP	150	388	584	703	–	–	265	1.73	489	2.26	804	3.23	7.96	90-270 V, 50/60 Hz
NLV8.0CN 4500 rpm	105H7809	L/MBP	–	826	1252	1510	–	–	558	1.72	1049	2.29	1731	3.14	7.96	90-270 V, 50/60 Hz
NLV10CN 2000 rpm	105H7004	L/MBP	203	509	758	907	–	–	352	1.74	636	2.20	1031	3.08	10.09	90-270 V, 50/60 Hz
NLV10CN 4500 rpm	105H7004	L/MBP	–	1085	1617	1941	–	–	749	1.76	1357	2.22	2217	2.93	10.09	90-270 V, 50/60 Hz
NLV12.6CN 2000 rpm	105H6366	L/MBP	246	605	897	1076	–	–	422	1.68	753	2.17	1230	2.86	12.55	180-270 V, 50/60 Hz
NLV12.6CN 4500 rpm	105H6366	L/MBP	–	1344	1995	2393	–	–	938	1.66	1675	2.05	2736	2.62	12.55	180-270 V, 50/60 Hz

Power	Compressor Cooling (refer to data sheet)	CECOMAF Capacity [W] Tc=55°C, Tliq=55°C, Tsuc=32°C Evaporating temperature [°C]						CECOMAF LBP rating point -25°C / 55°C		CECOMAF MBP rating point -10°C / 55°C		CECOMAF HBP rating point 5°C / 55°C		Dimensions Height [mm]		Dimensions Connectors location/I.D. [mm]			Connection	
		-35	-15	-5	0	10	15	Cooling capacity	COP	Cooling capacity	COP	Cooling capacity	COP			Suction	Process	Dis-charge	Cord relief	Cover
[HP]								[W]	[W/W]	[W]	[W/W]	[W]	[W/W]	A (I.D.)	B (I.D.)	C (I.D.)	D (I.D.)	E (I.D.)		
1/4	F2	122	314	471	566	–	–	198	1.34	387	1.88	673	2.71	203	197	8.20	6.20	6.20	–	103N2008
1/2	F2	–	667	1010	1216	–	–	415	1.33	827	1.91	1446	2.67	203	197	8.20	6.20	6.20	–	103N2008
1/3	F2	165	412	612	732	–	–	264	1.35	505	1.84	865	2.59	203	197	8.20	6.20	6.20	–	103N2008
3/4	F2	–	878	1306	1565	–	–	560	1.37	1077	1.87	1856	2.51	203	197	8.20	6.20	6.20	–	103N2008
3/8	F2	199	489	723	867	–	–	316	1.30	598	1.81	1028	2.44	203	197	8.20	6.20	6.20	–	103N2008
5/6	F2	–	1086	1609	1927	–	–	703	1.29	1329	1.73	2287	2.25	203	197	8.20	6.20	6.20	–	103N2008
1/4	F2	122	314	471	566	–	–	198	1.34	387	1.88	673	2.71	203	197	8.20	6.50	6.50	–	103N2008
1/2	F2	–	667	1010	1216	–	–	415	1.33	827	1.91	1446	2.67	203	197	8.20	6.50	6.50	–	103N2008
1/3	F2	165	412	612	732	–	–	264	1.35	505	1.84	865	2.59	203	197	8.20	6.50	6.50	–	103N2008
3/4	F2	–	878	1306	1565	–	–	560	1.37	1077	1.87	1856	2.51	203	197	8.20	6.50	6.50	–	103N2008
3/8	F2	199	489	723	867	–	–	316	1.30	598	1.81	1028	2.44	203	197	8.20	6.50	6.50	–	103N2008
5/6	F2	–	1086	1609	1927	–	–	703	1.29	1329	1.73	2287	2.25	203	197	8.20	6.50	6.50	–	103N2008

NLV-Series Extended (XT) Controllers

Compressor	Code number	NLV **105N4866** Multi Voltage, PFC **Voltage range:** 90-270 V, 50/60 Hz **Inputs:** Serial, integrated temp. controller, 4 digital/analog I/O, 8 relays
NLV8.0CN	105H7808	✓
NLV10CN	105H7003	✓
NLV12.6CN	105H6365	✓
NLV8.0CN	105H7809	✓
NLV10CN	105H7004	✓
NLV12.6CN	105H6366	✓



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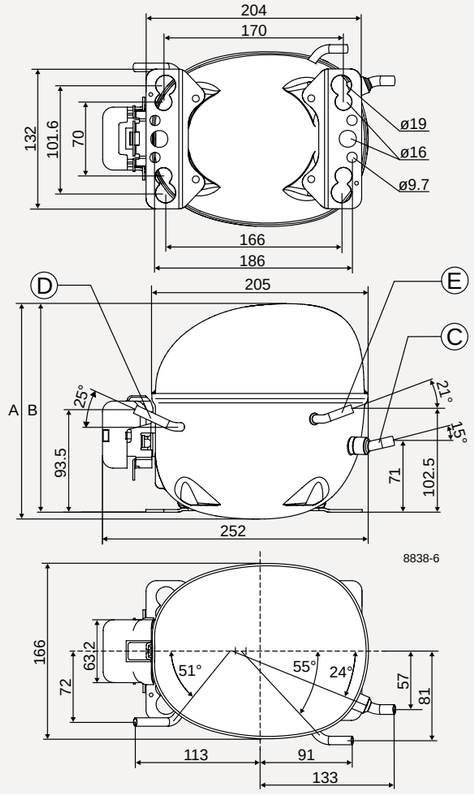


SLV- / SLVE-Series · R290 · 110-120 V · 220-240 V · 208-240 Hz

Compressor	Code number	Application	ASHRAE Capacity [W] Tc=54.4°C, Tliq=32.2°C, Tsuc=32.2°C Evaporating temperature [°C]						ASHRAE LBP rating point -23.3°C / 54.4°C		ASHRAE MBP rating point -6.7°C / 54.4°C		ASHRAE HBP rating point 7.2°C / 54.4°C		Displacement	Voltage and frequencies (dual frequency type with 50/60 Hz)
			-35	-15	-5	0	10	15	Cooling capacity	COP	Cooling capacity	COP	Cooling capacity	COP		
									[W]	[W/W]	[W]	[W/W]	[W]	[W/W]	[cm³]	
SLV15CNK 2000 rpm	104H8578	LBP	232	665	–	–	–	–	446	1.31	–	–	–	–	15.28	95-135 V, 50/60 Hz
SLV15CNK 4000 rpm	104H8578	LBP	438	1297	–	–	–	–	888	1.42	–	–	–	–	15.28	95-135 V, 50/60 Hz
SLV15CNK.2 2000 rpm	104H8541	LBP	232	665	–	–	–	–	446	1.32	–	–	–	–	15.28	180-254 V, 50/60 Hz
SLV15CNK.2 4000 rpm	104H8541	LBP	438	1297	–	–	–	–	888	1.42	–	–	–	–	15.28	180-254 V, 50/60 Hz
SLVE18CN 2200 rpm	104H8841	L/MBP	353	964	1427	1708	–	–	666	1.73	1199	2.21	–	–	17.69	180-270 V, 50/60 Hz
SLVE18CN 4500 rpm	104H8841	L/MBP	–	1726	2554	3057	4268	–	1192	1.67	2146	2.14	3485	2.98	17.69	180-270 V, 50/60 Hz

Power	Compressor Cooling (refer to data sheet)	CECOMAF Capacity [W] Tc=55°C, Tliq=55°C, Tsuc=32°C Evaporating temperature [°C]						CECOMAF LBP rating point -25°C / 55°C		CECOMAF MBP rating point -10°C / 55°C		CECOMAF HBP rating point 5°C / 55°C		Dimensions Height [mm]		Dimensions Connectors location/I.D. [mm]			Connection	
		-35	-15	-5	0	10	15	Cooling capacity	COP	Cooling capacity	COP	Cooling capacity	COP	A (I.D.)	B (I.D.)	Suction C (I.D.)	Process D (I.D.)	Discharge E (I.D.)	Cord relief	Cover
[HP]								[W]	[W/W]	[W]	[W/W]	[W]	[W/W]							
2/5	F2	187	536	–	–	–	–	329	1.01	668	1.46	–	–	199	193	10.20	6.20	6.20	–	103N2008
5/6	F2	352	1048	–	–	–	–	657	1.10	1284	1.54	–	–	199	193	10.20	6.20	6.20	–	103N2008
2/5	F2	187	536	–	–	–	–	329	1.01	668	1.46	–	–	199	193	10.20	6.20	6.20	–	103N2008
5/6	F2	352	1048	–	–	–	–	657	1.10	1284	1.54	–	–	199	193	10.20	6.20	6.20	–	103N2008
3/5	F2	285	780	1152	1377	–	–	497	1.34	954	1.85	–	–	219	213	10.20	6.20	6.20	–	103N2008
1 1/4	F2	–	1396	2063	2466	3430	–	889	1.29	1708	1.79	2920	2.51	219	213	10.20	6.20	6.20	–	103N2008

SLV- / SLVE-Series Controllers

Compressor	Code number	SLV 105N467x Series General Purpose, PFC Voltage range: 95-135 V, 50/60 Hz Inputs: Modbus, integrated temp. controller	SLV 105N46xx Series General Purpose, PFC Voltage range: 180-254 V, 50/60 Hz Inputs: Modbus, integrated temp. controller	SLVE 105N47xx Series Standard, PFC Voltage range: 180- 270 V, 50/60 Hz Inputs: Thermostat, defrost, communication, frequency signal
SLV15CNK	104H8578	✓	–	–
SLV15CNK.2	104H8541	–	✓	–
SLVE18CN	104H8841	–	–	✓

SLV

SLVE

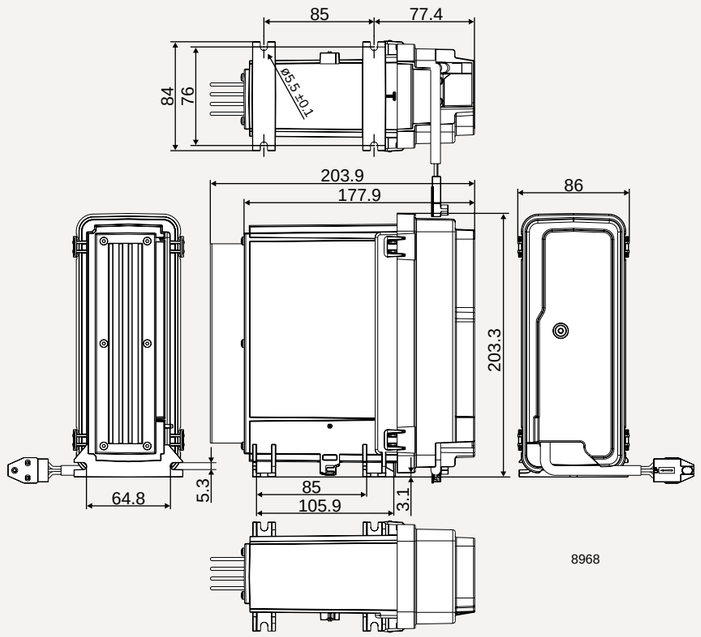
SLVE-Series · R290 · 100-240 V · 50/60 Hz

Compressor	Code number	Application	ASHRAE Capacity [W] Tc=54.4°C, Tliq=32.2°C, Tsuc=32.2°C Evaporating temperature [°C]						ASHRAE LBP rating point -23.3°C / 54.4°C		ASHRAE MBP rating point -6.7°C / 54.4°C		ASHRAE HBP rating point 7.2°C / 54.4°C		Displacement	Voltage and frequencies (dual frequency type with 50/60 Hz)
			-35	-15	-5	0	10	15	Cooling capacity	COP	Cooling capacity	COP	Cooling capacity	COP		
									[W]	[W/W]	[W]	[W/W]	[W]	[W/W]	[cm³]	
SLVE18CN 2200 rpm	104H8841	L/MBP	353	964	1427	1708	–	–	666	1.73	1199	2.21	–	–	17.69	100-240 V, 50/60 Hz
SLVE18CN 4500 rpm	104H8841	L/MBP	–	1726	2554	3057	4268	–	1192	1.67	2146	2.14	3485	2.98	17.69	100-240 V, 50/60 Hz

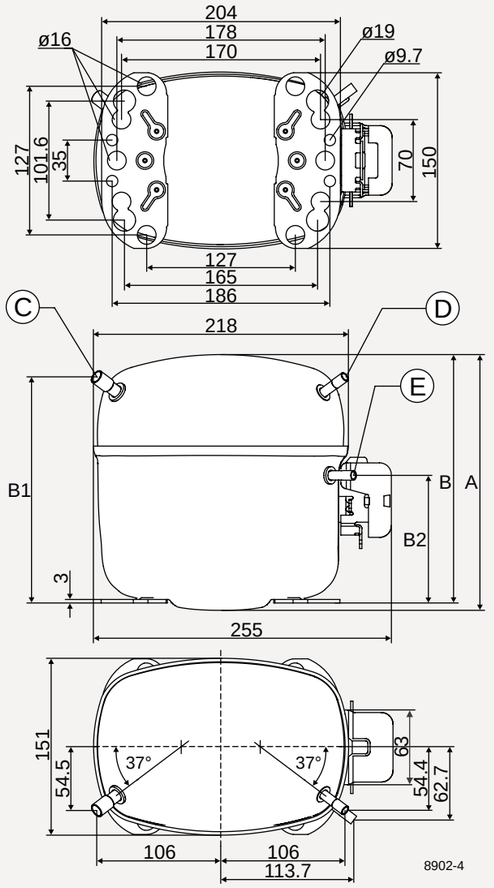
Power	Compressor Cooling (refer to data sheet)	CECOMAF Capacity [W] Tc=55°C, Tliq=55°C, Tsuc=32°C Evaporating temperature [°C]						CECOMAF LBP rating point -25°C / 55°C		CECOMAF MBP rating point -10°C / 55°C		CECOMAF HBP rating point 5°C / 55°C		Dimensions Height [mm]		Dimensions Connectors location/I.D. [mm]			Connection	
		-35	-15	-5	0	10	15	Cooling capacity	COP	Cooling capacity	COP	Cooling capacity	COP			Suction	Process	Dis-charge	Cord relief	Cover
[HP]								[W]	[W/W]	[W]	[W/W]	[W]	[W/W]	**A** (I.D.)	**B** (I.D.)	**C** (I.D.)	**D** (I.D.)	**E** (I.D.)		
3/5	F2	285	780	1152	1377	–	–	497	1.34	954	1.85	–	–	219	213	10.20	6.20	6.20	–	103N2008
1 1/4	F2	–	1396	2063	2466	3430	–	889	1.29	1708	1.79	2920	2.51	219	213	10.20	6.20	6.20	–	103N2008

SLVE-Series Multi Purpose (MP) Controllers (available in 2025)

Compressor	Code number	SLVE **105N4930** Multi Voltage, PFC	SLVE **105N4932** Multi Voltage, PFC, US GFCI-Conformity
		Voltage range: 90-270 V, 50/60 Hz	**Voltage range:** 90-270 V, 50/60 Hz
		Inputs: Thermostat, defrost, frequency signal, serial, 2 relays	**Inputs:** Thermostat, defrost, frequency signal, serial, 2 relays
SLVE18CN	104H8841	–	✓



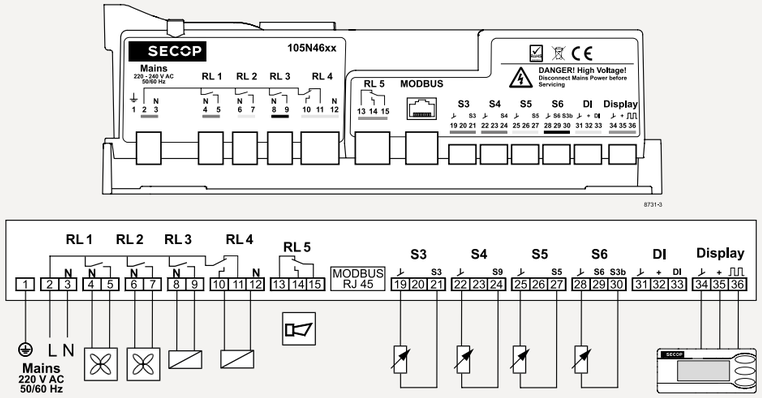
SLVE



LST - 105N46xx Series Controller, 220-240 V, 50/60 Hz, with PFC

SLV

PFC = power factor correction according to EN 61000-3-2:201

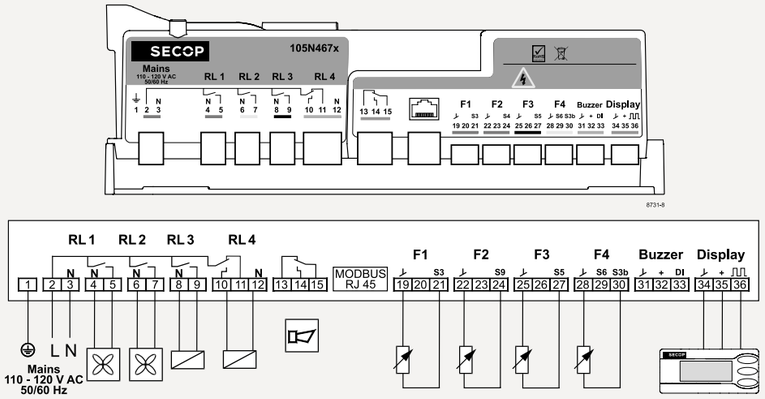


Mains	red
R L 1	blue
R L 2	yellow
R L 3	black
R L 4	grey
R L 5	green
S3	red
S4	blue
S5	yellow
S6	black
DI	grey
Display	green

LST - 105N46xx Series Controller, 110-120 V, 50/60 Hz, with PFC

SLV

PFC = power factor correction according to EN 61000-3-2:2014



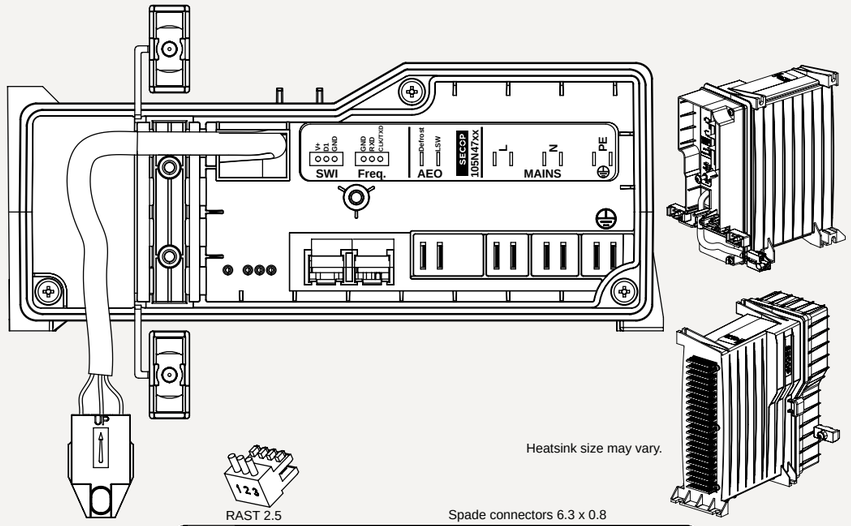
Mains	red
R L 1	blue
R L 2	yellow
R L 3	black
R L 4	grey
–	green
F1	red
F2	blue
F3	black
F4	yellow
Buzzer	grey
Display	green

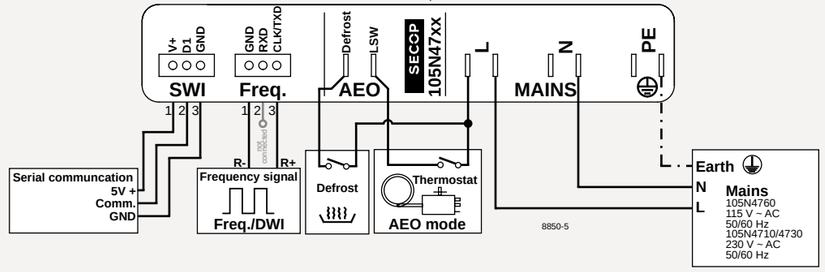
upper part of label: orange

HST - 105N47xx Series Controllers

SLVE – electronic units 105N47xx (208-230 V, 50/60 Hz, with PFC)

PFC = power factor correction according to EN 61000-3-2:2014





HST - 105N49xx Series Multipurpose (MP) Controllers

NLV – electronic unit 105N4910, 105N4914 (220-240 V, 50/60 Hz, with PFC)

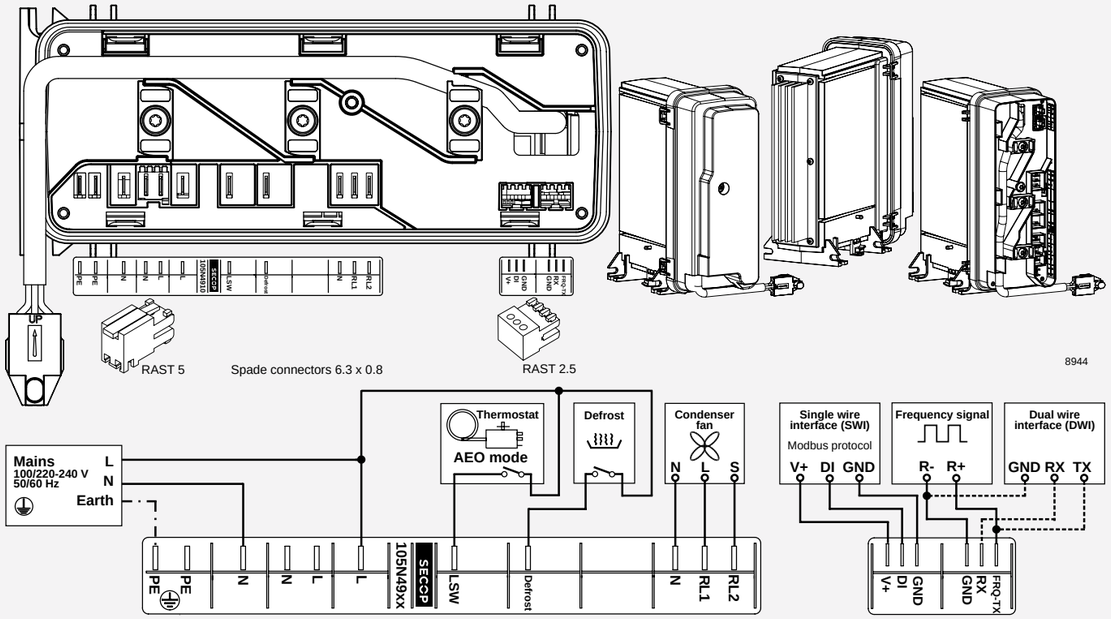
NLV – electronic unit 105N4960, 105N4964 (100-240 V, 50/60 Hz, with PFC)

NLV – electronic unit 105N4962, 105N4966 (100-240 V, 50/60 Hz, with PFC, US GFCI-Conformity)

SLVE – electronic unit 105N4930 (100-240 V, 50/60 Hz, with PFC) available in 2025

SLVE – electronic unit 105N4932 (100-240 V, 50/60 Hz, with PFC, US GFCI-Conformity) available in 2025

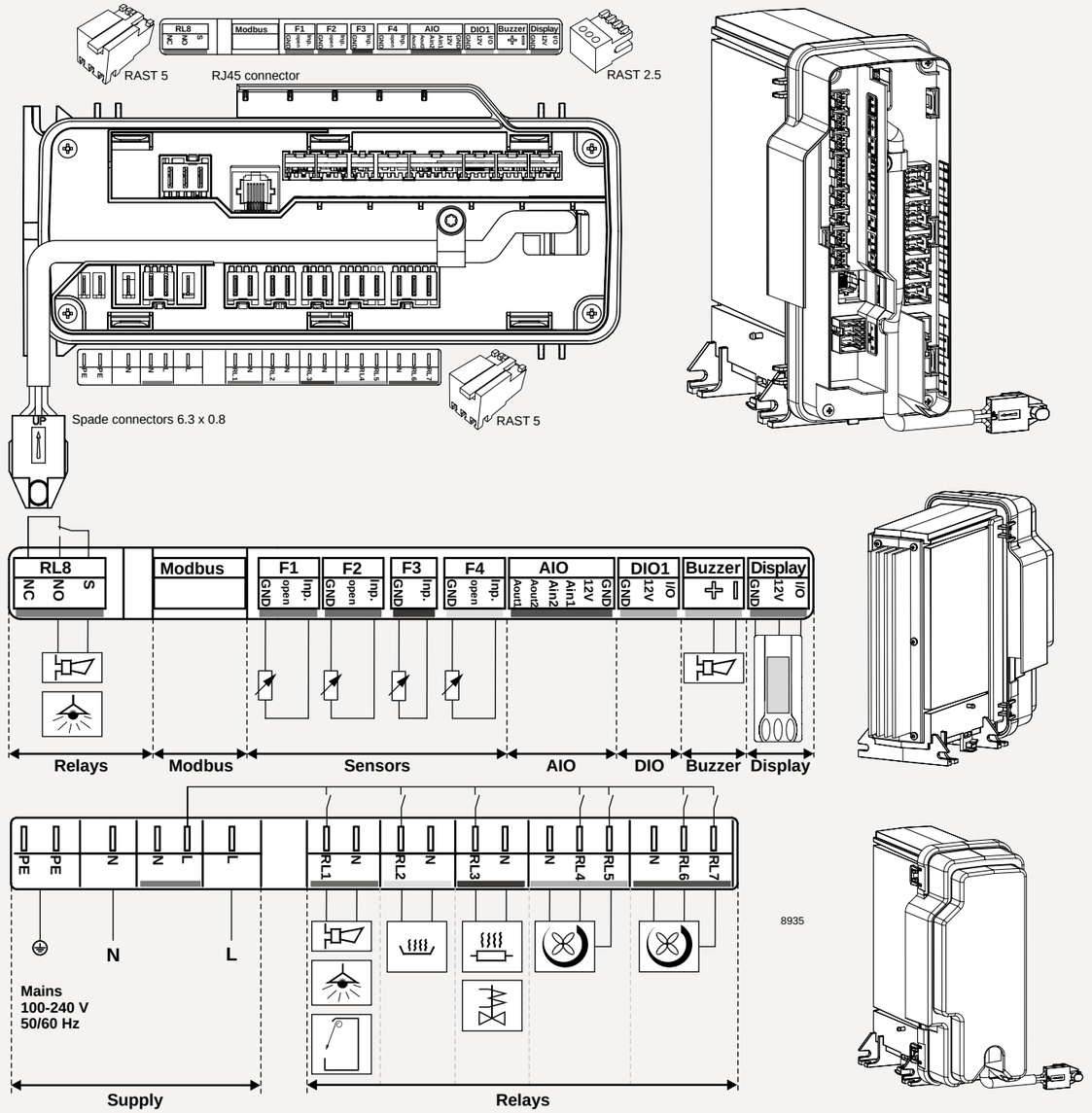
PFC = power factor correction according to EN 61000-3-2:2014



HST - 105N48xx Series Extended (XT) Controllers

NLV – electronic unit 105N4866 (100-240 V, 50/60 Hz, with PFC)

PFC = power factor correction according to EN 61000-3-2:2014



VARIABLE-SPEED °CCD CONTROLLERS (ELECTRONIC UNITS)

Operating at full capacity is extremely rare in most cooling applications, restricted to a just few days per year. That is why Secop has built variable-speed control into the DLV, NLV, SLV, and SLVE-Series. This unique technology makes capacity automatically adapt to your current requirement. The compressor runs at low speed most of the time, thus minimizing energy consumption. System efficiency is also greatly improved thanks to reduced loss when less heat is transferred via the evaporator and condenser. Overall, this equates to substantial energy savings.

Tool4Cool® is a unique PC software tool that enables you to precisely configure your Secop's Cool Capacity Drive (°CCD) variable-speed compressors to your cooling systems.

The variable-speed compressor motors are electronically controlled. Starting the compressor without a complete electronic unit is not necessary, as specified in the data sheet for the compressor type in use. The °CCD electronic unit has built-in overload and thermal protection. When activated, the electronic unit protects the compressor motor and itself. The electronic unit also automatically restarts the compressor after a specified time. It provides the compressor with high starting torque (HST) so that system pressure does not need to be equalized before start. The compressors are equipped with permanent magnet rotors (PM motor) and three identical stator windings. The electronic unit (attached or detached) controls the PM motor.

Connecting the motor to AC power, by fault, will damage the magnets and lead to a system that runs either at drastically reduced efficiency or even not at all.

For more information on which starting device to use on individual compressors, please refer to the respective data sheets (some compressors have limitations for either LST or HST). and to our "Operating Instructions" and "Instructions". The compressor application must factor in power supply from an electrical circuit with the appropriate fuse or circuit breaker. In addition, the use of a GFCI (Ground Fault Circuit Interrupter) or RCD (Residual Current Device) is recommended.

FLAMMABLE REFRIGERANT R290 (PROPANE)

R290 (propane) is a hydrocarbon. Hydrocarbon refrigerants are flammable and are only allowed for use in appliances that meet the requirements set out in the latest revision of EN/IEC 60335-2-34.

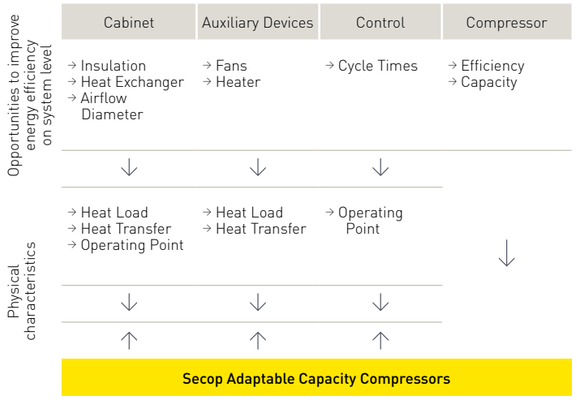
Do not use the refrigerant R290 near an open fire near. The refrigeration systems must be opened with a tube cutter.

To properly perform maintenance and repair work on R290 systems, service staff must be properly trained in handling flammable refrigerants. This includes knowledge of tools, transportation of the compressor and refrigerant, and the relevant regulations and safety precautions when carrying out service and repair work.

Secop compressors that use flammable refrigerant R290 are equipped with a yellow warning label as shown.

WHY CHOOSE VARIABLE-SPEED COMPRESSORS?

In general, a variable-speed drive compressor offers engineers far more options when it comes to building electronic systems and products. Altering the settings for each individual device built will result in efficiency gains that benefit both the business and customer, i.e. the initial investment might be slightly higher when using a compressor with an inverter, but the operating costs and therefore the total cost of ownership will be significantly lower. The return on investment is extremely quick especially in high priced energy markets.



Advantages of adaptable capacity

- → Improved system efficiency thanks to higher t_0 and lower t_C — up to 40% energy savings
- → Dynamic speed range from 1:4
- → Adjustable cooling capacity for actual system demand
- → Smaller compressor in terms of displacement and size
- → Lower noise emission thanks to low speed — up to 5 dB(A)
- → Released for rough applications, unstable power supply, and tropical regions
- → Bi-frequency at 220-240 V 50/60 Hz and 100-127 V 50/60 Hz
- → R290 models for commercial applications (LBP/MBP)
- → High starting torque (HST) features — no pressure equalization required to start compressor

Same compressor type for different markets!

Conclusion: The most important advantage of adaptable capacity is reduced energy consumption, which can be achieved in different ways.

The easiest, most efficient, and cheapest way to reach this target is to use adaptable capacity compressors.

General: Secop adaptable capacity compressors enable users to adjust the refrigeration capacity according to the desired need by controlling the motor speed of the compressor and therefore the cycle times of the piston. The compressors have been highly optimized to offer excellent motor and mechanical efficiency. Tests have shown improvements in energy consumption of up to 40%, depending on the system design. The average noise level can be reduced by up to 5 dB(A). The compressors are small in volume which allows space for greater net volume for usage.

Targets: The aim of all refrigeration appliance design is to define and optimize the essential functions such as: minimal cost, high performance, and high efficiency, minimized compressor size to enable larger internal cabinet volume, low noise levels and stabilized cabinet temperature at different operation capacities.

TOOL4COOL® FLEXIBLE CONTROL SETTINGS

Optimum control and monitoring

Tool4Cool® is a unique PC software tool that enables you to precisely configure Secop variable-speed drive compressors (inverter) to your cooling systems. In addition to using Tool4Cool® to customise and optimize settings during development, it can also be used for remote control and monitoring of refrigeration circuit during operation.

Tool4Cool® retrieves and sends information to all controllers in the refrigeration system, including settings, temperature, and speed. This lets operators control and monitor their systems from a central station. With Tool4Cool®, service departments have a constant overview of cooling systems and can perform any trouble-shooting remotely. Technicians only need to visit the site if a component needs to be replaced, for example.

Designed for easy operation

Tool4Cool® is a unique PC software tool that enables you to precisely configure your Secop compressors to your cooling systems.

Thanks to microprocessor-based controllers, Tool4Cool® gives you easy access to all parameters. These can be changed, monitored, downloaded, or uploaded to get optimum performance from your cooling system. Designed to be used with our automotive and light commercial range of compressors and controllers, Tool4Cool® covers a wide range of applications within parking cooling, light commercial cooling, and transport cooling.

The Tool4Cool® lets users determine the basic specifications of their products, giving operators the ability to clearly set themselves apart on the market.

Software installation

Visit and download our Tool4Cool® page
www.secop.com/tool4cool

Standalone system

- → Optimize operation during development
- → Alarm and event log readout
- → Logging during development
- → Download settings on the production line

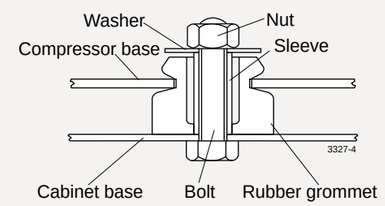
Network system

- → Easy monitoring and optimization
- → Alarm log and event log
- → Easy service

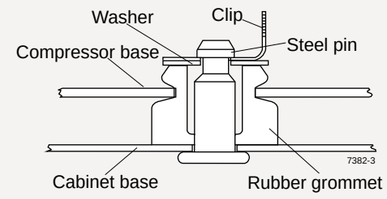
Mounting Accessories

Mounting	Code number	Bolt / pin dimension	Comp. base hole	Type of packaging	Compressor series	Parts list
Bolt joint	118-1917	M6 metric	16 mm	Single pack for one compressor	NLV- / SLV-Series	I
Bolt joint	118-1918	M6 metric	16 mm	Industrial pack in any quantity	NLV- / SLV-Series	I
Bolt joint	118-1958	M6 metric	16 mm	Single pack for one compressor	SLVE-Series	II
Bolt joint	118-1961	M6 metric	16 mm	Industrial pack in any quantity	SLVE-Series	II
Bolt joint	**118-1946**	1/4 inch	16 mm	Single pack for one compressor	NLV- / SLV-Series	III
Bolt joint	**118-1949**	1/4 inch	19 mm	Single pack for one compressor	all with 19 mm base holes	IV
Snap-on	118-1947	Ø 7.3 mm	16 mm	Single pack for one compressor	NLV- / SLV-Series	V
Snap-on	118-1919	Ø 7.3 mm	16 mm	Industrial pack in any quantity	NLV- / SLV-Series	V
Snap-on	118-1962	Ø 7.3 mm	16 mm	Industrial pack in any quantity	SLVE-Series	VI

Parts list (4 pcs. per compressor needed)			Symbol drawings
I	Sleeve Ø 8 mm x 6.4 mm x 0.8 mm	112-2052	
	Washer Ø 20 mm x Ø 6.7 mm x 1 mm	112-2053	
	Bolt M6 x 25 mm	681X1130	
	Nut M6	118-3659	
	Rubber grommet 16 mm	118-3661	
II	Sleeve Ø 8 mm x 6.4 mm x 0.8 mm	112-2052	
	Washer Ø 20 mm x Ø 6.7 mm x 1 mm	112-2053	
	Bolt M6 x 25 mm	681X1130	
	Nut M6	118-3659	
	Rubber grommet 16 mm	118-3670	
III	Sleeve Ø 8.3 mm x 6.7 mm x 0,8 mm	112-2088	
	Washer Ø 20 mm x Ø 6.7 mm x 1 mm	112-2053	
	Bolt 1/4 x 1 inch, 20 UNC	119-3002	
	Nut 1/4 inch, 20 UNC	119-3031	
	Rubber grommet 16 mm	118-3661	
IV	Sleeve Ø 9.5 mm x 7.9 mm x 0,8 mm	112-2085	
	Washer Ø 20 mm x Ø 6.7 mm x 1 mm	112-2053	
	Bolt 1/4 x 1 1/4 inch, 20 UNC	119-3002	
	Nut 1/4 inch, 20 UNC	119-3031	
	Rubber grommet 19 mm	118-3666	
V	Steel pin	118-3586	
	Washer Ø 21 x Ø 8.1 mm x 0.9 mm	118-3588	
	Clip	118-3585	
	Rubber Grommet 16 mm	118-3661	
VI	Steel pin	118-3586	
	Washer Ø 21 x Ø 8.1 mm x 0.9 mm	118-3588	
	Clip	118-3585	
	Rubber Grommet 16 mm	118-3670	

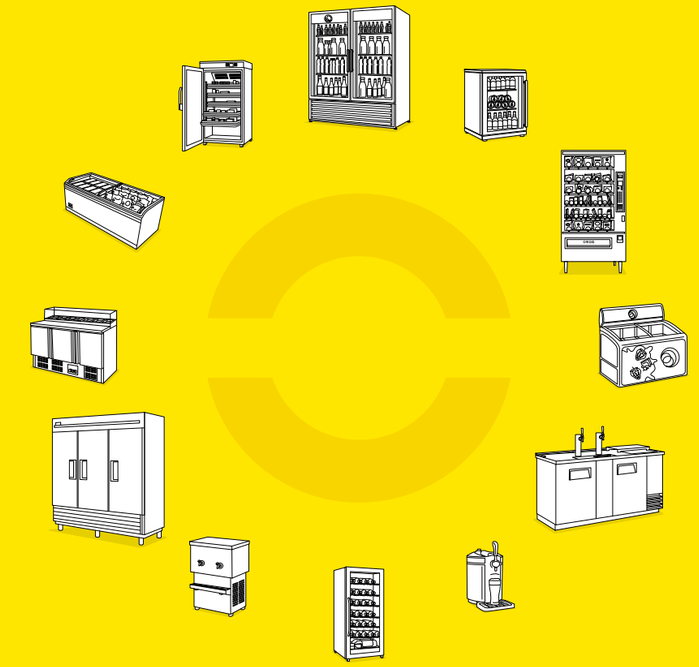


Bolt joint mounting



Snap-on mounting

HERMETIC COMPRESSORS
HC REFRIGERANTS



International System of Units

R290
R600a

208–230 V · 60 Hz
220–240 V · 50 / 60 Hz
220–240 V · 50 Hz
200–240 V · 50 / 60 Hz

R600a · 220-240 V · 50 Hz

Electrical Equipment

Compressor	Code number	Application	ASHRAE Capacity [W] Tc=54.4°C, Tliq=32.2°C, Tsuc=32.2°C Evaporating temperature [°C]						ASHRAE						Displacement	Voltage and frequencies (*dual frequency type with 50/60 Hz)	Compressor cooling (refer to data sheet)
									LBP rating point -23.3°C / 54.4°C		MBP rating point -6.7°C / 54.4°C		HBP rating point 7.2°C / 54.4°C				
			-35	-15	-5	0	10	15	Cooling capacity	COP	Cooling capacity	COP	Cooling capacity	COP			
									[W]	[W/W]	[W]	[W/W]	[W]	[W/W]	[cm³]		
PLE35K	101H0360	MBP	–	63	106	133	–	–	38	0.91	88	1.56	–	–	2.50	198-254 V, 50 Hz	S
TLES4KK.3	102H4438	LBP	23	91	–	–	–	–	57	1.18	–	–	–	–	4.01	198-254 V, 50 Hz	S
TLES4.8KK.3	102H4579	LBP	34	115	–	–	–	–	74	1.30	–	–	–	–	4.78	198-254 V, 50 Hz	S
TLES4.8KK.3	102H4596	LBP	34	115	–	–	–	–	74	1.30	–	–	–	–	4.78	198-254 V, 50 Hz	S
TLES5.7KK.3	102H4694	LBP	45	139	–	–	–	–	91	1.32	–	–	–	–	5.70	198-254 V, 50 Hz	S
TLES6.5KK.3	102H4783	LBP	55	163	–	–	–	–	108	1.31	–	–	–	–	6.49	198-254 V, 50 Hz	S
TLES7.5KK.3	102H4838	LBP	64	189	–	–	–	–	125	1.31	–	–	–	–	7.48	198-254 V, 50 Hz	S
TLES8.7KK.3	102H4939	LBP	75	221	–	–	–	–	147	1.33	–	–	–	–	8.67	198-254 V, 50 Hz	S
TLES5KTK	102H4536	LBP	34	121	194	240	–	–	77	1.22	162	1.78	–	–	5.08	187-254 V, 50 Hz	S
TLES6KTK	102H4636	LBP	38	136	–	–	–	–	89	1.23	–	–	–	–	5.70	187-254 V, 50 Hz	S
NLE11KK.4	105H6952	LBP	100	283	–	–	–	–	190	1.56	–	–	–	–	11.15	198-254 V, 50 Hz	S
NLE13KK.4	105H6939	LBP	121	334	–	–	–	–	226	1.56	–	–	–	–	13.25	198-254 V, 50 Hz	S
NLE9KTK	105H6071	LBP	66	202	–	–	–	–	131	1.33	–	–	–	–	8.35	187-254 V, 50 Hz *	S
NLE15KTK.2	105H6966	LBP	129	383	–	–	–	–	254	1.52	–	–	–	–	14.65	187-254 V, 50 Hz	S
NLX10KK.2	105H6101	LBP													10.09	198-254 V, 50 Hz	S
NLX13KK.3	105H6306	LBP													13.25	198-254 V, 50 Hz	S
NLX15KK.2	105H6977	LBP	135	377	–	–	–	–	255	1.87	–	–	–	–	14.65	198-254 V, 50 Hz	S
NLX15KK.3	105H6506	LBP	132	388	–	–	–	–	254	1.85	–	–	–	–	14.65	198-254 V, 50 Hz	S
NLU10KK.1	105H6193	LBP	86	267	–	–	–	–	176	1.98	–	–	–	–	10.09	198-254 V, 50 Hz	S
NLU11KK.1	105H6198	LBP	99	301	–	–	–	–	200	1.97	–	–	–	–	11.15	198-254 V, 50 Hz	S
NLU13KK.1	105H6372	LBP	114	348	–	–	–	–	230	1.98	–	–	–	–	13.25	198-254 V, 50 Hz	S

Dimensions						LST (RSIR & RSCR) refer to data sheet for more info					Run capacitor (RC)		HST (CSIR & CSCR) *alt. cable lengths avail.			LST/HST	
Height [mm]		Connectors location/I.D. [mm]			alt. connectors available	PTC starting device		PTC starting device with RC connector		ePTC	→ optional → compulsory*		Starting relay	Starting capacitor	Starting device*	Cord relief	Cover
		Suction	Process	Dis-charge		Spades		Spades		Spades	Spades		Spades		Spades		
A	B	C (I.D.)	D (I.D.)	E (I.D.)		6.3 mm	4.8 mm	6.3 mm	4.8 mm	4.8 mm	6.3 mm	4.8 mm	6.3 mm	6.3 mm	6.3 mm		
137	135	6.2	6.2	5	–	–	–	103N0016	103N0021	–	117-7117 *	117-7119 *	–	–	–	103N1010	103N0491
163	159	6.2	6.2	5	X	103N0011	103N0018	103N0016	103N0021	103N0050	117-7117	117-7119	–	–	–	103N1010	103N2010
163	159	6.2	6.2	5	X	103N0011	103N0018	103N0016	103N0021	103N0050	117-7117	117-7119	–	–	–	103N1010	103N2010
163	159	6.2	4.5	5	X	103N0011	103N0018	103N0016	103N0021	103N0050	117-7117	117-7119	–	–	–	103N1010	103N2010
163	159	6.2	6.2	5	X	103N0011	103N0018	103N0016	103N0021	103N0050	117-7117	117-7119	–	–	–	103N1010	103N2010
163	159	6.2	6.2	5	X	103N0011	103N0018	103N0016	103N0021	103N0050	117-7117	117-7119	–	–	–	103N1010	103N2010
163	159	6.2	6.2	5	X	103N0011	103N0018	103N0016	103N0021	103N0050	117-7131	117-7132	–	–	–	103N1010	103N2010
163	159	6.2	6.2	5	X	103N0011	103N0018	103N0016	103N0021	103N0050	117-7117	117-7119	–	–	–	103N1010	103N2010
173	169	6.2	6.2	5	–	103N0011	103N0018	103N0016	103N0021	103N0050	117-7117	117-7119	–	–	–	103N1010	103N2010
173	169	6.2	6.2	5	–	103N0011	103N0018	103N0016	103N0021	103N0050	117-7117	117-7119	–	–	–	103N1010	103N2010
190	183	6.2	6.2	5	–	103N0011	103N0018	103N0016	103N0021	103N0050	117-7117	117-7119	–	–	–	103N1010	103N2010
190	183	6.2	6.2	5	X	103N0011	103N0018	103N0016	103N0021	103N0050	117-7117	117-7119	–	–	–	103N1010	103N2010
197	190	6.2	6.2	5	X	103N0011	103N0018	103N0016	103N0021	–	117-7117	117-7119	–	–	–	103N1010	103N2010
203	197	6.2	6.2	5	–	103N0011	103N0018	103N0016	103N0021	–	117-7117	117-7119	–	–	–	103N1010	103N2010
203	197	6.2	6.2	5	–	–	–	103N0016	103N0021	103N0050	117-7131 *	117-7132 *	–	–	–	103N1010	103N2010
203	197	6.2	6.2	5	–	–	–	103N0016	103N0021	103N0050	117-7117 *	117-7119 *	–	–	–	103N1010	103N2010
203	197	8.2	6.2	6.2	X	–	–	103N0016	103N0021	103N0050	117-7117 *	117-7119 *	–	–	–	103N1010	103N2010
203	197	6.2	6.2	5		–	–	–	103N0021	103N0050	–	117-7140 *	–	–	–	103N1010	103N2010
203	197	6.2	6.2	5	X	–	–	–	103N0021	103N0055	–	117-7139 *	–	–	–	103N1010	103N2010
203	197	6.2	6.2	5	X	–	–	–	103N0021	103N0055	–	117-7139 *	–	–	–	103N1010	103N2010
203	197	6.2	6.2	5	–	–	–	–	103N0021	103N0055	117-7131 *	117-7132 *	–	–	–	103N1010	103N2010

Note: T-Series compressors will be phased out in 2025

Natural Refrigerant

K-Series AA · R600a · 220-240 V · 50 Hz

Electrical Equipment · Spare Parts · Accessories

Compressor	Code number	Application	ASHRAE Capacity [W] Tc=54.4°C, Tliq=32.2°C, Tsuc=32.2°C Evaporating temperature [°C]						ASHRAE LBP rating point -23.3°C / 54.4°C		ASHRAE MBP rating point -6.7°C / 54.4°C		ASHRAE HBP rating point 7.2°C / 54.4°C		Displacement	Voltage and frequencies (*dual frequency type with 50/60 Hz)	Compressor cooling (refer to data sheet)
			-35	-15	-5	0	10	15	Cooling capacity	COP	Cooling capacity	COP	Cooling capacity	COP			
									[W]	[W/W]	[W]	[W/W]	[W]	[W/W]	[cm³]		
HKK55AA	CDO00039	LBP	39	145	224	–	–	–	93	1.71	188	2.29	–	–	5.60	187-264 V, 50 Hz	S
HKK70AA	CDO00040	LBP	54	180	276	–	–	–	117	1.74	233	2.26	–	–	6.60	187-264 V, 50 Hz	S
HKK80AA	CDO00041	LBP	67	207	316	–	–	–	136	1.77	266	2.29	–	–	8.10	187-264 V, 50 Hz	S
HKK95AA	CDO00042	LBP	84	251	376	–	–	–	168	1.80	318	2.28	–	–	9.60	187-264 V, 50 Hz	S
HKK12AA	CDO00043	LBP	100	291	428	–	–	–	199	1.80	363	2.25	–	–	11.20	187-264 V, 50 Hz	S
HMK80AA	CDO00165	LBP	67	206	314	–	–	–	136	1.50	265	1.99	–	–	8.10	187-264 V, 50 Hz	S
HMK95AA	CDO00164	LBP	81	252	381	–	–	–	167	1.53	322	2.01	–	–	9.60	187-264 V, 50 Hz	S
HMK12AA	CDO00163	LBP	99	291	425	–	–	–	198	1.53	361	1.93	–	–	11.20	187-264 V, 50 Hz	S
HTK55AA	CDO00034	LBP	39	146	225	–	–	–	93	1.55	190	2.12	–	–	5.60	187-264 V, 50 Hz	S
HTK70AA	CDO00035	LBP	53	181	267	–	–	–	117	1.61	227	2.29	–	–	6.60	187-264 V, 50 Hz	S
HTK80AA	CDO00036	LBP	67	207	316	–	–	–	136	1.61	266	2.19	–	–	8.10	187-264 V, 50 Hz	S
HTK95AA	CDO00037	LBP	86	251	382	–	–	–	167	1.64	322	2.14	–	–	9.60	187-264 V, 50 Hz	S
HTK12AA	CDO00038	LBP	99	290	426	–	–	–	198	1.64	361	2.06	–	–	11.20	187-264 V, 50 Hz	S
HXK55AA	CDO00045	LBP	44	148	224	–	–	–	97	1.83	189	2.32	–	–	5.60	187-264 V, 50 Hz	S
HXK70AA	CDO00110	LBP	57	181	277	–	–	–	118	1.86	233	2.35	–	–	6.64	187-264 V, 50 Hz	S
HXK80AA	CDO00096	LBP	71	210	316	–	–	–	140	1.90	267	2.38	–	–	8.10	187-264 V, 50 Hz	S
HXK87AA	CDO00103	LBP	79	230	349	–	–	–	154	1.90	294	2.52	–	–	8.80	187-264 V, 50 Hz	S
HXK95AA	CDO00085	LBP	89	254	380	–	–	–	171	1.91	321	2.39	–	–	9.60	187-264 V, 50 Hz	S
HXK12AA	CDO00095	LBP	100	295	434	–	–	–	200	1.90	368	2.37	–	–	11.10	187-264 V, 50 Hz	S
HZK80AA	CDO00094	LBP	71	210	316	–	–	–	140	1.97	267	2.48	–	–	8.10	187-264 V, 50 Hz	S
HZK95AA	CDO00078	LBP	85	254	376	–	–	–	171	1.99	319	2.54	–	–	9.60	187-264 V, 50 Hz	S
HZK12AA	CDO00077	LBP	102	293	430	–	–	–	200	1.98	365	2.50	–	–	11.10	187-264 V, 50 Hz	S

Dimensions						Run capacitor	Terminal board		Terminal board	Cable clamp	Cover	Evaporation tray	All-in-one equipment
Height [mm]		Connectors location [mm]			alt. connectors available	→ optional → compulsory*	→ PTC → external protector		→ ePTC → external protector	screws not included	V0 material optional	plastic	→ cover → cable clamp + screws → earthing screw
		Suction	Process	Discharge		Spades	Spades		Spades				
A	B	C (I.D.)	D (O.D.)	E (I.D.)		4.8 | 6.3 mm	4.8 mm	6.3 mm	4.8 mm				
159	–	6.15	6.00	5.15	X	2.5 µF *	ZHFF	DHFF	–	113410_	196364_	162991_	161680_
159	–	6.15	6.00	5.15	X	3 µF *	ZHF6	DHF6	–	113410_	196364_	162991_	161680_
159	–	6.15	6.00	5.15	X	3 µF *	ZHF4	DHF4	–	113410_	196364_	162991_	161680_
167	–	6.15	6.00	5.15	X	4 µF *	ZAFC	DAFC	–	113410_	196364_	162991_	161680_
167	–	6.15	6.00	5.15	X	4 µF *	ZAFP	DAFP	–	113410_	196364_	162991_	161680_
159	–	6.15	6.00	5.15	X	–	ZAF5	DAF5	–	113410_	196364_	162991_	161680_
159	–	6.15	6.00	5.15	X	–	ZAF5	DAF5	–	113410_	196364_	162991_	161680_
167	–	6.15	6.00	5.15	X	–	ZAFP	DAFP	–	113410_	196364_	162991_	161680_
159	–	6.15	6.00	5.15	X	2 µF	ZHF0	DHF0	–	113410_	196364_	162991_	161680_
159	–	6.15	6.00	5.15	X	3 µF	ZAF7	DAF7	–	113410_	196364_	162991_	161680_
159	–	6.15	6.00	5.15	X	3 µF	ZAFC	DAFC	–	113410_	196364_	162991_	161680_
167	–	6.15	6.00	5.15	X	4 µF	ZAFC	DAFC	–	113410_	196364_	162991_	161680_
167	–	6.15	6.00	5.15	X	4 µF	ZAF9	DAF9	–	113410_	196364_	162991_	161680_
159	–	6.15	6.00	5.15	X	3 µF *	ZAF6	DAF6	ZXF6	113410_	196364_	162991_	161680_
167	–	6.15	6.00	5.15	X	3 µF *	ZAF6	DAF6	ZXF6	113410_	196364_	162991_	161680_
167	–	6.15	6.00	5.15	X	3 µF *	ZAF4	DAF4	ZXF4	113410_	196364_	162991_	161680_
167	–	6.15	6.00	5.15	X	4 µF *	ZAF5	DAF5	ZXF5	113410_	196364_	162991_	161680_
167	–	6.15	6.00	5.15	X	4 µF *	ZAF5	DAF5	ZXF5	113410_	196364_	162991_	161680_
167	–	6.15	6.00	5.15	X	4 µF *	ZAFP	DAFP	ZXFP	113410_	196364_	162991_	161680_
167	–	6.15	6.00	5.15	X	3 µF *	–	–	ZXF4	113410_	196364_	162991_	161680_
170	–	6.15	6.00	5.15	X	4 µF *	–	–	ZXF5	113410_	196364_	162991_	161680_
170	–	6.15	6.00	5.15	X	4 µF *	–	–	ZXFP	113410_	196364_	162991_	161680_

K-Series AT · R600a · 200-240 V · 50/60 Hz

Electrical Equipment · Spare Parts · Accessories

Compressor	Code number	Application	ASHRAE Capacity [W] Tc=54.4°C, Tliq=32.2°C, Tsuc=32.2°C Evaporating temperature [°C]						ASHRAE LBP rating point -23.3°C / 54.4°C		ASHRAE MBP rating point -6.7°C / 54.4°C		ASHRAE HBP rating point 7.2°C / 54.4°C		Displacement	Voltage and frequencies (*dual frequency type with 50/60 Hz)	Compressor cooling (refer to data sheet)
			-35	-15	-5	0	10	15	Cooling capacity	COP	Cooling capacity	COP	Cooling capacity	COP			
									[W]	[W/W]	[W]	[W/W]	[W]	[W/W]	[cm³]		
HXK70AT	CDO00124	LBP	60	178	–	–	–	–	119	1.72	–	–	–	–	6.64	170-264 V, 50 Hz	S
HXK80AT	CDO00135	LBP	70	208	–	–	–	–	140	1.75	–	–	–	–	8.10	170-264 V, 50 Hz *	S
HXK87AT	CDO00136	LBP	89	229	–	–	–	–	154	1.75	–	–	–	–	8.80	170-264 V, 50 Hz *	S
HXK95AT	CDO00137	LBP	76	254	–	–	–	–	174	1.75	–	–	–	–	9.60	170-264 V, 50 Hz *	S
HXK12AT	CDO00219	LBP	115	295	–	–	–	–	198	1.73	–	–	–	–	11.12	170-264 V, 50 Hz *	S
HXK13AT	CDO00222	LBP	131	335	–	–	–	–	226	1.65	–	–	–	–	12.50	170-264 V, 50 Hz	S

Dimensions						Run capacitor	Terminal board		Terminal board	Cable clamp	Cover	Evaporation tray	All-in-one equipment
Height [mm]		Connectors location [mm]			alt. connectors available	→ optional → compulsory*	→ PTC → external protector		→ ePTC → external protector	screws not included	V0 material optional	plastic	→ cover → cable clamp + screws → earthing screw
		Suction	Process	Discharge		Spades	Spades		Spades				
A	B	C (I.D.)	D (O.D.)	E (I.D.)		4.8 | 6.3 mm	4.8 mm	6.3 mm	4.8 mm				
167	–	6.15	6.00	5.15	X	4 µF	ZAF5	DAF5	–	113410_	196364_	162991_	161680_
167	–	6.15	6.00	5.15	X	4 µF	ZCF5	DCF5	–	113410_	196364_	162991_	161680_
167	–	6.15	6.00	5.15	X	4 µF	ZCFC	DCFC	–	113410_	196364_	162991_	161680_
167	–	6.15	6.00	5.15	X	4 µF	ZCFP	DCFP	–	113410_	196364_	162991_	161680_
167	–	6.15	6.00	5.15	X	4 µF	ZCF9	DCF9	–	113410_	196364_	162991_	161680_
167	–	6.15	6.00	5.15	X	4 µF *	ZCF9	DCF9	–	113410_	196364_	162991_	161680_

R290 · 220-240 V · 50 Hz

Electrical Equipment

Compressor	Code number	Application	ASHRAE Capacity [W] Tc=54.4°C, Tliq=32.2°C, Tsuc=32.2°C Evaporating temperature [°C]						ASHRAE						Displacement	Voltage and frequencies (*dual frequency type with 50/60 Hz)	Compressor cooling (refer to data sheet)
									LBP rating point -23.3°C / 54.4°C		MBP rating point -6.7°C / 54.4°C		HBP rating point 7.2°C / 54.4°C				
			-35	-15	-5	0	10	15	Cooling capacity	COP	Cooling capacity	COP	Cooling capacity	COP			
									[W]	[W/W]	[W]	[W/W]	[W]	[W/W]	[cm³]		
TL3CN	102H4380	L/MBP	49	161	249	303	–	–	105	0.91	208	1.38	–	–	3.13	198-254 V, 50 Hz	F1
TL4CN	102H4490	L/MBP	76	212	316	379	–	–	146	1.07	265	1.46	–	–	3.86	198-254 V, 50 Hz	F1
TL5CN	102H4590	L/MBP	109	296	436	521	–	–	205	1.18	367	1.53	–	–	5.08	198-254 V, 50 Hz	F1
KLF4.0CND	106H2401	L/MBP	93	268	401	483	–	–	184	1.50	336	2.14	–	–	4.00	198-254 V, 50 Hz	F2
KLF4.0CNDS	106H2403	L/MBP	89	258	386	465	–	–	177	1.44	323	2.03	–	–	4.00	198-254 V, 50 Hz	F2
KLF4.8CND	106H2500	L/MBP	113	332	489	586	–	–	231	1.55	411	2.17	–	–	4.80	198-254 V, 50 Hz	F2
KLF4.8CNDS	106H2503	L/MBP	109	320	471	564	–	–	222	1.46	395	2.01	–	–	4.80	198-254 V, 50 Hz	F2
KLF5.6CND	106H2600	L/MBP	144	401	596	716	–	–	277	1.62	500	2.17	–	–	5.60	198-254 V, 50 Hz	F2
KLF5.6CNDS	106H2603	L/MBP	138	383	568	682	–	–	265	1.51	477	2.02	–	–	5.60	198-254 V, 50 Hz	F2
KLF6.6CND	106H2700	L/MBP	174	485	709	846	–	–	338	1.58	597	2.12	–	–	6.60	198-254 V, 50 Hz	F2
KLF6.6CNDS	106H2703	L/MBP	168	467	682	813	–	–	326	1.47	574	1.96	–	–	6.60	198-254 V, 50 Hz	F2
KLF7.7CND	106H2800	L/MBP	213	559	824	983	–	–	388	1.60	693	2.12	–	–	7.70	198-254 V, 50 Hz	F2
KLF7.7CNDS	106H2803	L/MBP	204	535	788	939	–	–	372	1.48	663	1.95	–	–	7.70	198-254 V, 50 Hz	F2
KLF7.7LNDK	106H2801	LBP	216	556	–	–	–	–	390	1.57	–	–	–	–	7.70	198-254 V, 50 Hz	F2
NL7CN	105H6756	L/MBP	174	474	712	859	–	–	325	1.35	597	1.81	–	–	7.27	198-254 V, 50 Hz	F1
NL9CN	105H6856	L/MBP	205	548	815	979	–	–	380	1.39	684	1.80	–	–	8.35	198-254 V, 50 Hz	F1
NLE8.8CN	105H6880	L/MBP	236	611	893	1068	1497	–	431	1.57	751	1.98	1220	2.68	8.76	198-254 V, 50 Hz	F2
NLE10CN	105H6175	L/MBP	267	702	1038	1240	1722	–	486	1.47	872	1.89	1409	2.53	10.09	198-254 V, 50 Hz	F2
NLE11CNL	105H6174	LBP	300	778	1143	–	–	–	540	1.52	962	1.92	–	–	11.15	198-254 V, 50 Hz	F2
NLE12.6CNL	105H6378	LBP	355	861	1274	–	–	–	611	1.63	1069	2.00	–	–	12.55	198-254 V, 50 Hz	F2
NLE11MN	105H6177	MBP	–	795	1166	1391	1929	–	562	1.58	981	2.01	1579	2.70	11.15	198-254 V, 50 Hz	F2
NLE12.6MN	105H6377	MBP	–	855	1261	1510	2114	–	602	1.56	1060	1.97	1725	2.56	12.55	198-254 V, 50 Hz	F2
NLU8.8DN	105H6085	M/HBP	–	569	862	1045	1488	1751	392	1.60	721	2.17	1210	3.09	8.76	187-254 V, 50 Hz	F2
SC10CNX	104H8065	L/MBP	175	547	853	1042	–	–	358	1.27	711	1.79	–	–	10.29	198-254 V, 50 Hz	F2
SC12CNX	104H8265	L/MBP	227	711	1110	1372	–	–	475	1.31	923	1.79	–	–	12.87	198-254 V, 50 Hz	F2
SC15CNX	104H8565	L/MBP	251	918	1415	1717	–	–	597	1.35	1183	1.83	–	–	15.28	198-254 V, 50 Hz	F2
SC18CNX	104H8865	L/MBP	315	1106	1684	2032	–	–	727	1.36	1410	1.74	–	–	17.69	198-254 V, 50 Hz	F2
SC12CNX.2	104H8266	LBP	230	742	–	–	–	–	491	1.20	–	–	–	–	12.87	198-254 V, 50 Hz	F2
SC15CNX.2	104H8566	LBP	345	928	–	–	–	–	624	1.32	–	–	–	–	15.28	198-254 V, 50 Hz	F2
SC18CNX.2	104H8866	LBP	342	1194	–	–	–	–	797	1.31	–	–	–	–	17.69	198-254 V, 50 Hz	F2
SC21CNX.2	104H8166	LBP	462	1399	–	–	–	–	962	1.45	–	–	–	–	20.95	198-254 V, 50 Hz	F2
SC10MNX	104H8075	MBP	–	575	921	1132	–	–	351	1.19	766	1.70	1329	2.57	10.29	198-254 V, 50 Hz	F2
SC12MNX	104H8275	MBP	–	757	1195	1461	–	–	474	1.13	995	1.77	1707	2.61	12.87	198-254 V, 50 Hz	F2
SC15MNX	104H8575	MBP	–	967	1409	1679	–	–	680	1.51	1187	1.75	1907	2.40	15.28	198-254 V, 50 Hz	F2
SC18MNX	104H8875	MBP	–	1109	1622	1943	–	–	777	1.31	1364	1.71	2237	2.33	17.69	198-254 V, 50 Hz	F2
SCE15CNLX	104H8548	LBP	319	1004	1522	–	–	–	667	1.52	1276	2.05	–	–	15.28	198-254 V, 50 Hz	F2
SCE18CNLX	104H8848	LBP	404	1179	1775	–	–	–	793	1.51	1489	2.03	–	–	17.69	198-254 V, 50 Hz	F2
SCE21CNLX	104H8163	LBP	512	1397	2081	–	–	–	956	1.61	1748	2.08	–	–	20.95	198-254 V, 50 Hz	F2
SCE21CNLX	104H8164	LBP	497	1381	2062	–	–	–	939	1.49	1732	1.87	–	–	20.95	207-242 V, 50 Hz	F2
SCE15CNX	104H8540	L/MBP	319	1002	1524	1836	–	–	664	1.62	1277	2.23	2100	3.13	15.28	198-254 V, 50 Hz	F2
SCE18CNX	104H8840	L/MBP	400	1206	1818	2183	–	–	809	1.63	1525	2.24	2488	3.14	17.69	198-254 V, 50 Hz	F2
SCE15MNX	104H8549	MBP	–	995	1513	1822	2550	–	659	1.49	1267	2.04	2083	2.84	15.28	198-254 V, 50 Hz	F2
SCE18MNX	104H8849	MBP	–	1193	1789	2144	–	–	809	1.46	1501	1.97	2437	2.75	17.69	198-254 V, 50 Hz	F2
SCE21MNX	104H8160	MBP	–	1443	2091	2492	–	–	1002	1.64	1762	2.11	2852	2.91	20.95	198-254 V, 50 Hz	F2
SCE23LNDX ●	104H8320	LBP	578	1571	2331	–	–	–	1077	1.62	–	–	–	–	23.00	207-254 V, 50 Hz	F2
SCE25LNDX ●	104H8420	MBP	635	1704	2514	–	–	–	1175	1.61	2115	1.97	–	–	25.00	207-254 V, 50 Hz	F2
SCE23MNDX ●	104H8300	LBP	–	1560	2260	2694	3800	–	1086	1.60	–	–	–	–	23.00	207-254 V, 50 Hz	F2
SCE25MNDX ●	104H8400	MBP	–	1702	2459	2933	4160	–	1188	1.63	2072	2.04	–	–	25.00	207-254 V, 50 Hz	F2

Dimensions						LST (RSIR & RSCR) refer to data sheet for more info					Run capacitor (RC)		HST (CSIR & CSCR) *alt. cable lengths avail.			LST/HST	
Height [mm]		Connectors location/I.D. [mm]			alt. connectors available	PTC starting device		PTC starting device with RC connector		ePTC	→ optional → compulsory*		Starting relay	Starting capacitor	Starting device*	Cord relief	Cover
		Suction	Process	Discharge		Spades		Spades		Spades	Spades		Spades		Spades		
A	B	C (I.D.)	D (I.D.)	E (I.D.)		6.3 mm	4.8 mm	6.3 mm	4.8 mm	4.8 mm	6.3 mm	4.8 mm	6.3 mm	6.3 mm	6.3 mm		
163	159	6.2	6.2	5	X	103N0011	103N0018	–	–	–	–	–	117U7004	117U5014	–	103N1010	103N2010
173	169	6.2	6.2	5	–	103N0011	103N0018	–	–	–	–	–	117U7004	117U5014	–	103N1010	103N2010
173	169	6.2	6.2	5	X	103N0011	103N0018	103N0016	103N0021	–	117-7117	117-7119	117U7000	117U5014	–	103N1010	103N2010
182	175	8.2	6.2	6.2	X	–	–	103N0254	103N0255	–	117-7191	117-7190	117U7073	117U5001	–	16058100	10636401
182	175	8.2	6.2	6.2	–	–	–	–	–	–	–	–	117U7073	117U5001	–	16058100	10636401
182	175	8.2	6.2	6.2	X	–	–	103N0254	103N0255	–	117-7191	117-7190	117U7073	117U5001	–	16058100	10636401
182	175	8.2	6.2	6.2	–	–	–	–	–	–	–	–	117U7073	117U5001	–	16058100	10636401
182	175	8.2	6.2	6.2	X	–	–	103N0251	103N0253	–	117-7191	117-7190	117U7070	117U5001	–	16058100	10636401
182	175	8.2	6.2	6.2	–	–	–	–	–	–	–	–	117U7070	117U5001	–	16058100	10636401
182	175	8.2	6.2	6.2	X	–	–	103N0250	103N0252	–	117-7191	117-7190	117U7071	117U5001	–	16058100	10636401
182	175	8.2	6.2	6.2	–	–	–	–	–	–	–	–	117U7071	117U5001	–	16058100	10636401
182	175	8.2	6.2	6.2	X	–	–	103N0250	103N0252	–	117-7191	117-7190	117U7071	117U5001	–	16058100	10636401
182	175	8.2	6.2	6.2	–	–	–	–	–	–	–	–	117U7071	117U5001	–	16058100	10636401
182	175	8.2	6.2	6.2		103N0251	103N0253	103N0251	103N0253	–	117-7191	117-7190	–	–	–	16058100	10636401
203	197	8.2	6.2	6.2	–	103N0011	103N0018	103N0016	103N0021	–	117-7117	117-7119	117U7002	117U5015	–	103N1010	103N2010
203	197	8.2	6.2	6.2	X	103N0011	103N0018	103N0016	103N0021	–	117-7117	117-7119	117U7002	117U5015	–	103N1010	103N2010
203	197	8.2	6.2	6.2	X	–	–	–	–	103N0050	–	117-7119	117U7002	117U5015	–	103N1010	103N2010
203	197	8.2	6.2	6.2	X	–	–	–	–	103N0050	–	117-7119	117U7002	117U5015	–	103N1010	103N2010
203	197	8.2	6.2	6.2	X	–	–	–	–	103N0050	–	–	117U7003	117U5015	–	103N1010	103N2010
203	197	8.2	6.2	6.2	–	–	–	–	–	103N0050	–	117-7119	117U7003	117U5015	–	103N1010	103N2010
203	197	8.2	6.2	6.2	X	–	–	–	–	103N0050	–	117-7119	117U7005	117U5015	–	103N1010	103N2010
203	197	8.2	6.2	6.2	X	–	–	–	–	103N0050	–	117-7119	117U7011	117U5015	–	103N1010	103N2010
203	197	8.2	6.2	6.2	–	–	–	–	–	–	117-7111 *	–	117-7425	117U5389	–	103N1010	103N2010
209	203	8.2	6.2	6.2	–	–	–	–	–	–	–	–	–	117U5372	117-7025	103N1004	103N2009
209	203	8.2	6.2	6.2	–	–	–	–	–	–	–	–	–	117U5372	117-7025	103N1004	103N2009
209	203	10.2	6.2	6.2	X	–	–	–	–	–	–	–	–	117U5373	117-7031	103N1004	103N2009
209	203	10.2	6.2	6.2	X	–	–	–	–	–	–	–	–	117U5373	117-7052	103N1004	103N2009
209	203	8.2	6.2	6.2	X	–	–	–	–	–	–	–	117U7003	117U5017	–	103N1004	103N2009
209	203	8.2	6.2	6.2	–	–	–	–	–	–	–	–	117U7005	117U5017	–	103N1004	103N2009
219	213	10.2	6.2	6.2	–	–	–	–	–	–	–	–	117U7011	117U5017	–	103N1004	103N2009
219	213	10.2	6.2	6.2	X	–	–	–	–	–	–	–	117U7013	117U5012	–	103N1004	103N2009
209	203	8.2	6.2	6.2	–	–	–	–	–	–	–	–	117U7005	117U5017	–	103N1004	103N2008
219	213	8.2	6.2	6.2	–	–	–	–	–	–	–	–	117U7019	117U5017	–	103N1004	103N2008
219	213	8.2	6.2	6.2	–	–	–	–	–	–	–	–	117U7019	117U5017	–	103N1004	103N2008
219	213	8.2	6.2	6.2	–	–	–	–	–	–	–	–	117U7011	117U5017	–	103N1004	103N2008
219	213	10.2	6.2	6.2	–	–	–	–	–	–	–	–	117U7403	117U5017	–	103N1004	117U1033
219	213	10.2	6.2	6.2	X	–	–	–	–	–	–	–	117U7405	117U5017	–	103N1004	117U1033
219	213	10.2	6.2	6.2	–	–	–	–	–	–	117-7112 *	–	117-7600	117U5373	117-7806	–	117U1028
219	213	10.2	6.2	6.2	–	–	–	–	–	–	–	–	117U7400	117U5017	–	–	117U1033
219	213	10.2	6.2	6.2	–	–	–	–	–	–	117-7112 *	–	117-7429	117U5373	117-7810	103N1004	117U1033
219	213	10.2	6.2	6.2	–	–	–	–	–	–	117-7112 *	–	117-7600	117U5373	117-7806	103N1004	117U1033
219	213	10.2	6.2	6.2	–	–	–	–	–	–	–	–	117U7405	117U5017	–	103N1004	117U1033
219	213	10.2	6.2	6.2	X	–	–	–	–	–	–	–	117U7406	117U5017	–	103N1004	117U1033
219	213	10.2	6.2	6.2	–	–	–	–	–	–	117-7112 *	–	117-7425	117U5373	117-7800	–	117U1028
236.4	230.6	10.2	6.2	6.2	–	–	–	–	–	–	117-7112 *	–	117-7600	117U5373	117-7806	–	117U1028
236.4	230.6	10.2	6.2	6.2	–	–	–	–	–	–	117-7112 *	–	117-7425	117U5373	117-7800	–	117U1028
236.4	230.6	10.2	6.2	6.2	–	–	–	–	–	–	117-7112 *	–	117-7425	117U5373	117-7800	–	117U1028
236.4	230.6	10.2	6.2	6.2	–	–	–	–	–	–	117-0313 *	–	117-7425	117U5373	117-8102	–	117U1028

Note: T-Series compressors will be phased out in 2025

● Preliminary data, SCE Plus compressors use a terminal board instead of a starting device

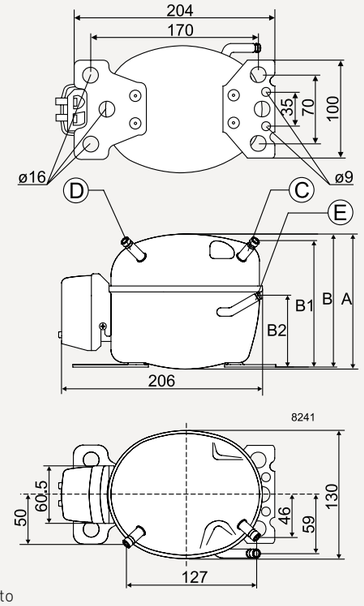
R290 · 220-240 V · 50/60 Hz | 208-230 V · 60 Hz

Electrical Equipment

Compressor	Code number	Application	ASHRAE Capacity [W] Tc=54.4°C, Tliq=32.2°C, Tsuc=32.2°C Evaporating temperature [°C]						ASHRAE LBP rating point -23.3°C / 54.4°C		ASHRAE MBP rating point -6.7°C / 54.4°C		ASHRAE HBP rating point 7.2°C / 54.4°C		Displacement	Voltage and frequencies (*dual frequency type with 50/60 Hz)	Compressor cooling (refer to data sheet)
			-35	-15	-5	0	10	15	Cooling capacity	COP	Cooling capacity	COP	Cooling capacity	COP			
									[W]	[W/W]	[W]	[W/W]	[W]	[W/W]	[cm³]		
KLF4.8CNT	106H2502	L/MBP	113	338	500	601	–	–	233	1.54	420	2.17	–	–	4.80	187-254 V, 50 Hz *	F2
KLF5.6CNT	106H2602	L/MBP	144	400	594	714	–	–	277	1.61	499	2.16	–	–	5.60	187-254 V, 50 Hz *	F2
NLE8.0CNT	105H6073	L/MBP	–	553	824	991	–	–	377	1.45	692	2.02	1137	2.92	7.96	187-242 V, 50 Hz *	F2
NLE8.8CNT	105H6088	L/MBP	276	738	1086	1296	–	–	511	1.56	914	2.05	1469	2.80	8.76	187-253 V, 60 Hz	F2
NLE10CNT	105H6179	L/MBP	–	735	1076	1278	–	–	511	1.49	906	1.92	1440	2.59	10.09	187-242 V, 50 Hz *	F2
NLE11CNLT	105H6109	LBP	416	979	–	–	–	–	669	1.65	–	–	–	–	11.15	187-253 V, 60 Hz	F2
NLE11MNT	105H6199	MBP	–	965	1395	1654	–	–	–	–	1176	2.02	1866	2.73	11.15	187-253 V, 60 Hz	F2
SC18CNLX.2	104H8877	LBP	457	1268	1823	–	–	–	922	1.45	1533	1.92	–	–	17.69	198-254 V, 60 Hz	F2
SC21CNLX.2	104H8177	LBP	570	1552	2201	–	–	–	1138	1.45	1856	1.78	–	–	20.95	198-254 V, 60 Hz	F2
SCE15CNLX	104H8577	LBP	249	1210	1857	–	–	–	769	1.64	1555	2.27	–	–	15.28	187-253 V, 60 Hz	F2
SCE15CNLX	104H8588	LBP	250	1205	1848	–	–	–	764	1.47	1548	2.02	–	–	15.28	187-253 V, 60 Hz	F2
SCE18CNLX	104H8878	LBP	298	1434	2198	–	–	–	910	1.67	1841	2.30	–	–	17.69	187-253 V, 60 Hz	F2
SCE18CNLX	104H8888	LBP	440	1385	2066	–	–	–	940	1.50	1734	1.93	–	–	17.69	187-253 V, 60 Hz	F2
SCE21CNLX	104H8173	LBP	526	1646	2484	–	–	–	1102	1.65	2082	2.14	–	–	20.95	187-253 V, 60 Hz	F2
SCE21CNLX	104H8174	LBP	452	1582	2409	–	–	–	1042	1.43	2017	1.89	–	–	20.95	198-253 V, 60 Hz	F2
SCE15MNX	104H8579	MBP	–	1221	1852	2226	–	–	792	1.64	1552	2.25	2546	3.19	15.28	187-253 V, 60 Hz	F2
SCE15MNX	104H8589	MBP	–	1208	1828	2196	–	–	786	1.52	1533	2.03	2511	2.85	15.28	187-253 V, 60 Hz	F2
SCE18MNX	104H8879	MBP	–	1431	2146	2569	–	–	942	1.62	1802	2.21	2924	3.11	17.69	187-253 V, 60 Hz	F2
SCE18MNX	104H8889	MBP	–	1427	2137	2557	–	–	941	1.46	1794	1.96	2910	2.76	17.69	187-253 V, 60 Hz	F2

Dimensions						LST (RSIR & RSCR) refer to data sheet for more info					Run capacitor (RC)		HST (CSIR & CSCR) *alt. cable lengths avail.			LST/HST	
Height [mm]		Connectors location/I.D. [mm]			alt. connectors available	PTC starting device		PTC starting device with RC connector		ePTC	→ optional → compulsory*		Starting relay	Starting capacitor	Starting device*	Cord relief	Cover
		Suction	Process	Discharge		Spades		Spades		Spades	Spades		Spades		Spades		
A	B	C (I.D.)	D (I.D.)	E (I.D.)		6.3 mm	4.8 mm	6.3 mm	4.8 mm	4.8 mm	6.3 mm	4.8 mm	6.3 mm	6.3 mm	6.3 mm		
181	175.5	8.2	6.2	6.2	X	–	–	103N0251		–	117-7155	–	117U7070	117U5003	–	16058100	10636401
181	175.5	8.2	6.2	6.2	X	–	–	103N0256		–	117-7155	–	117U7077	117U5003	–	16058100	10636401
203	197	8.2	6.5	6.5	–	–	–	–	–	103N0050	–	117-7119	117U7003	117U5014	–	103N1010	103N2011
203	197	8.2	6.5	6.5	–	–	–	–	–	103N0050	–	117-7119	117U7022	117U5381	–	103N1010	103N2011
203	197	8.2	6.5	6.5	–	–	–	–	–	103N0050	–	117-7119	117U7050	117U5014	–	103N1010	103N2011
203	197	8.2	6.5	6.5	–	–	–	–	–	103N0050	–	117-7165	117U7005	117U5014	–	103N1010	103N2011
203	197	8.2	6.5	6.5	–	–	–	–	–	103N0050	–	117-7119	117U7050	117U5014	–	103N1010	103N2011
219	213	9.63	6.5	6.5	–	–	–	–	–	–	–	–	–	117U5373	117-7039	103N1004	103N2008
219	213	9.63	6.5	6.5	–	–	–	–	–	–	–	–	–	117U5373	117-7066	103N1004	103N2008
219	213	9.63	6.5	6.5	–	–	–	–	–	–	117U7121 *	–	117-7602	117U5373	117-7809	–	117U1021
219	213	9.63	6.5	6.5	–	–	–	–	–	–	–	–	117U7413	117U5076	–	–	117U1021
219	213	9.63	6.5	6.5	X	–	–	–	–	–	117U7121 *	–	117-7602	117U5373	117-7809	–	117U1021
219	213	9.63	6.5	6.5	X	–	–	–	–	–	–	–	117U7413	117U5076	–	–	117U1021
219	213	9.63	6.5	6.5	–	–	–	–	–	–	117U7121 *	–	117-7603	117U5373	117-7811	–	117U1021
219	213	9.63	6.5	6.5	–	–	–	–	–	–	–	–	117U7407	117U5076	–	–	117U1021
219	213	9.63	6.5	6.5	–	–	–	–	–	–	117U7121 *	–	117-7601	117U5373	117-7808	–	117U1021
219	213	9.63	6.5	6.5	–	–	–	–	–	–	–	–	117U7401	117U5076	–	–	117U1021
219	213	9.63	6.5	6.5	X	–	–	–	–	–	117U7121 *	–	117-7445	117U5373	117-7807	–	117U1021
219	213	9.63	6.5	6.5	X	–	–	–	–	–	–	–	117U7412	117U5076	–	–	117U1021

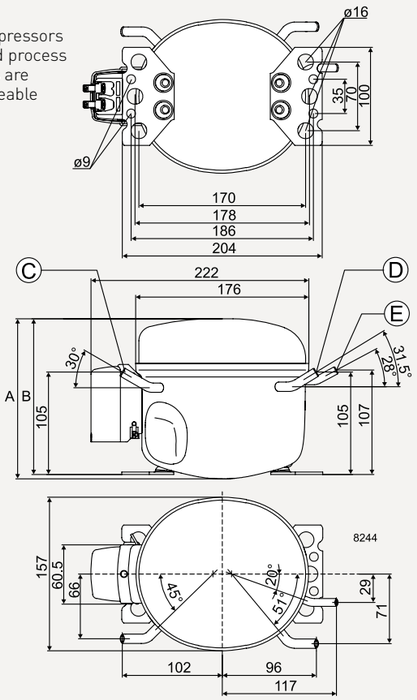
PLE



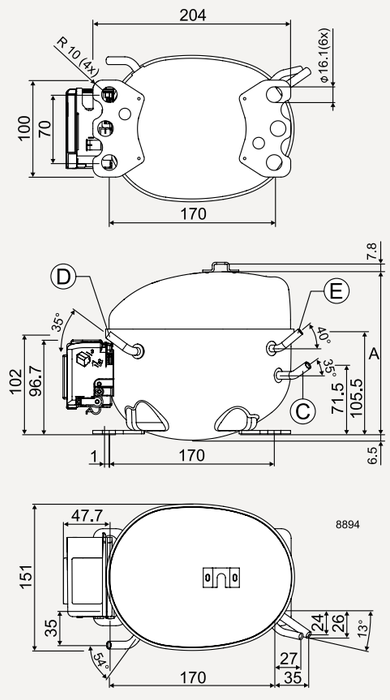
Note:
Please refer to data sheets for heights B1 and B2

TL/TLES

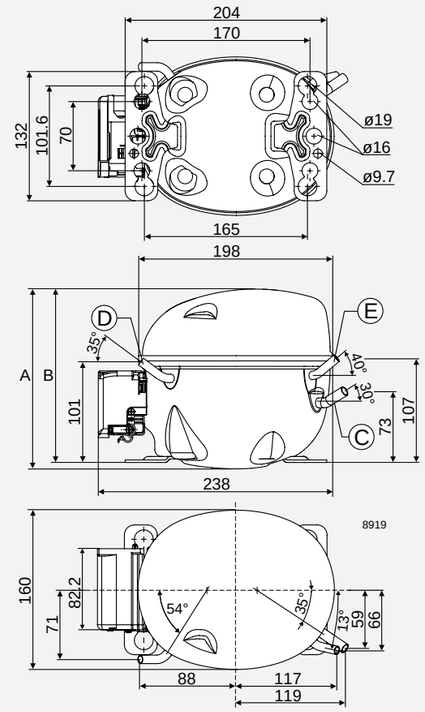
Note:
On TL compressors suction and process connectors are interchangeable



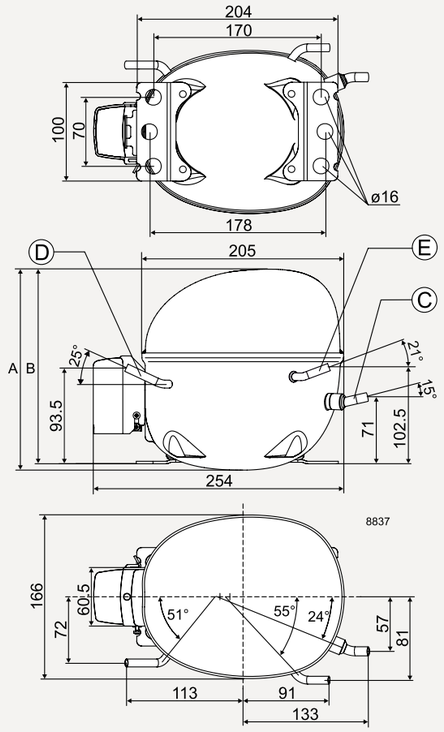
HKK/HMK/HTK/HXK/HZK (K-Series)



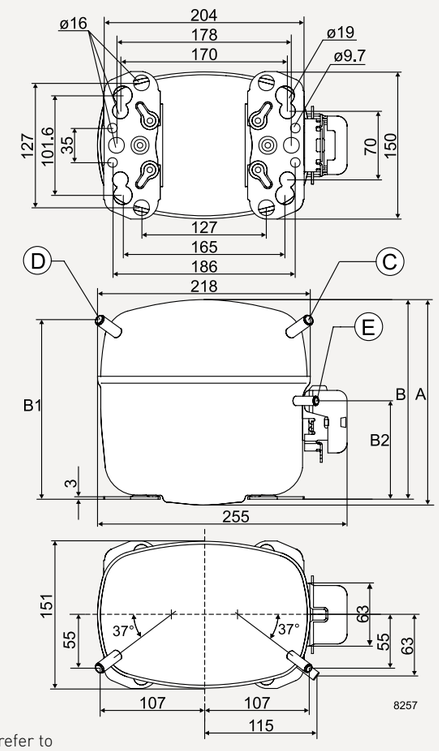
KLF



NLE/NLU (NL similar)

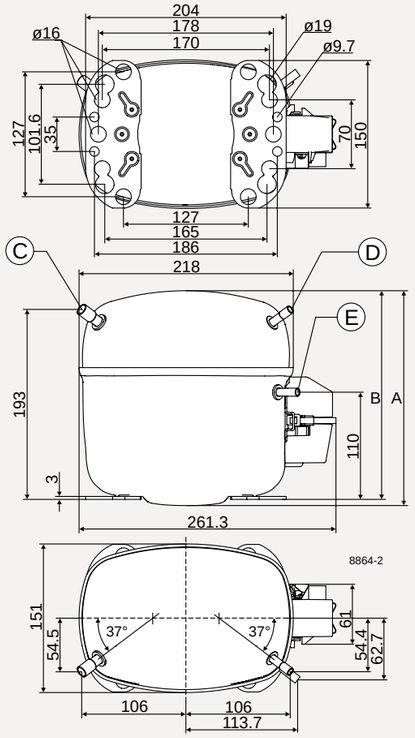


SC

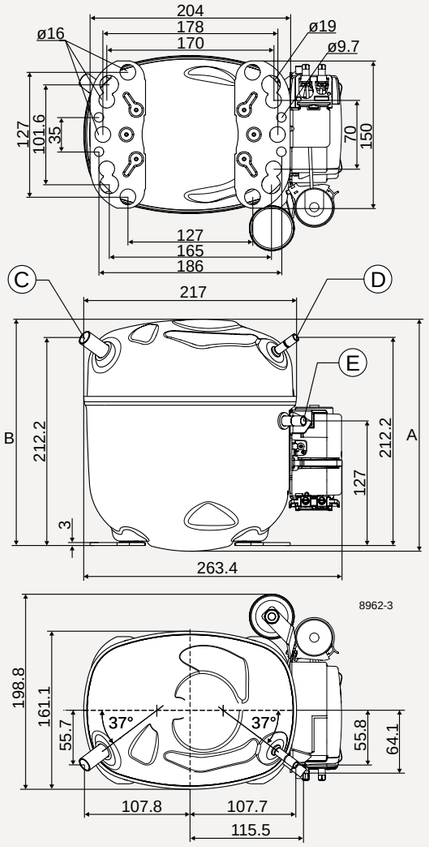


Note:
Please refer to data sheets for heights B1 and B2

SCE



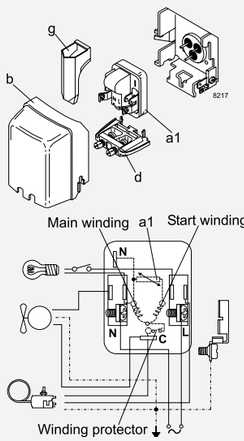
SCE Plus (preliminary)



Electrical Equipment · Motor Systems for Secop Compressors

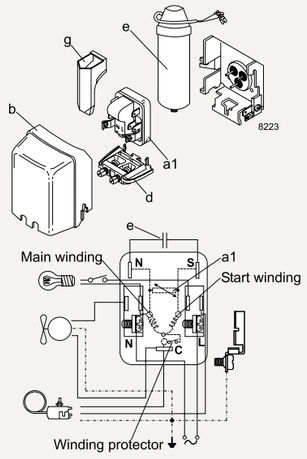
LST - RSCR

TL/TLES - NL/NLE



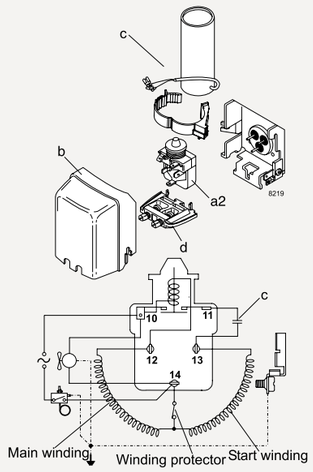
LST - RSCR

TLES - NLE/NLU/NLX



HST - CSIR

TL/TLES - NL/NLE



Further information

Applications
LBP: Low Back Pressure
HBP: High Back Pressure
MBP: Medium Back Pressure

Motor types
RSIR: Resistant Start Induction Run
RSCR: Resistant Start Capacitor Run
CSIR: Capacitor Start Induction Run
CSCR: Capacitor Start Capacitor Run

Compressor cooling
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

Starting devices

LST: Low Starting Torque
LST is used with capillary tube control and pressure equalizing. (Pressure equalizing may exceed 10 minutes). The PTC starting device requires 5 minutes cooling before each start.

HST: High Starting Torque
HST consisting of relay and starting capacitor is used for expansion valve control or for capillary tube control without pressure equalizing.

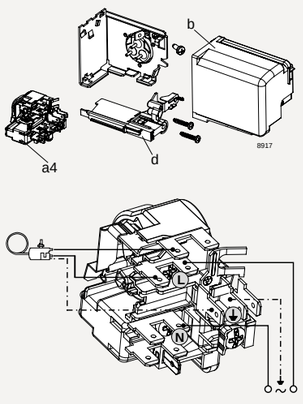
ePTC: Electronically controlled PTC
- Compressor restart possible after a few seconds
- Operational wattage loss reduced by 2 watt
- PTC protection screen not needed (surface temp. < 82 °C)

Legend

a1: PTC or ePTC starting device
a2: Starting relay
a3: Starting device
a4: Terminal board incl. PTC and protector
a5: Terminal board incl. relay
b: Cover
b1: Clamp (part of compressor)
b2: Gasket (part of compressor)
c: Starting capacitor
d: Cord relief
e: Run capacitor
e1: Run capacitor holder
f: Protector
g: Protection screen for PTC
h: Holder

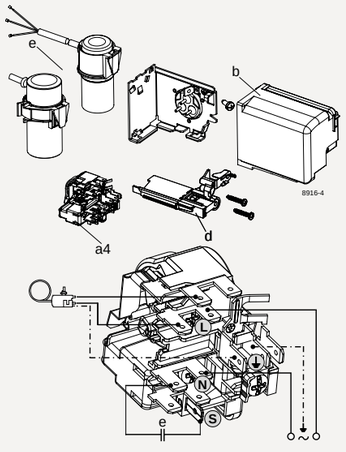
LST - RSIR

KLF - external protector



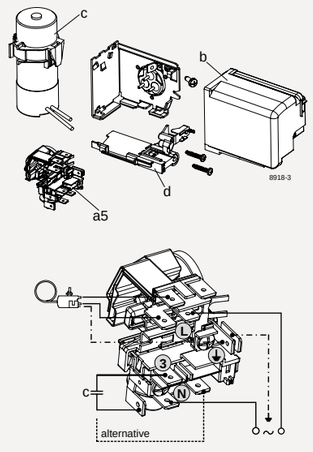
LST - RSCR

KLF - external protector



HST - CSIR

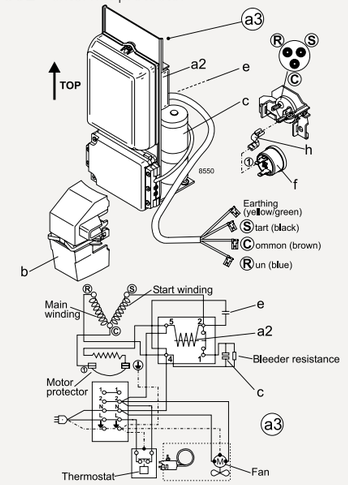
KLF - external protector



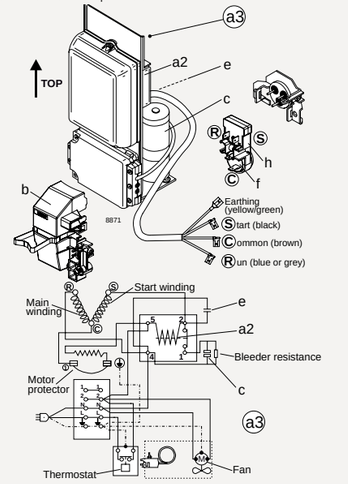
Electrical Equipment · Motor Systems for Secop Compressors

HST - CSCR

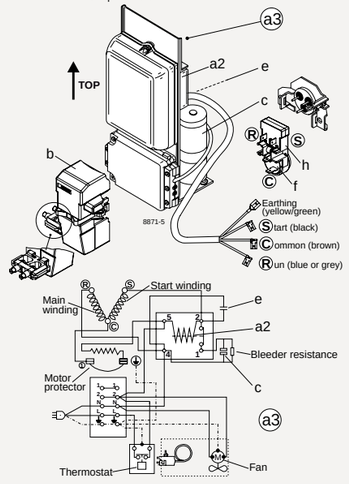
SCE - external protector



SCE - external protector

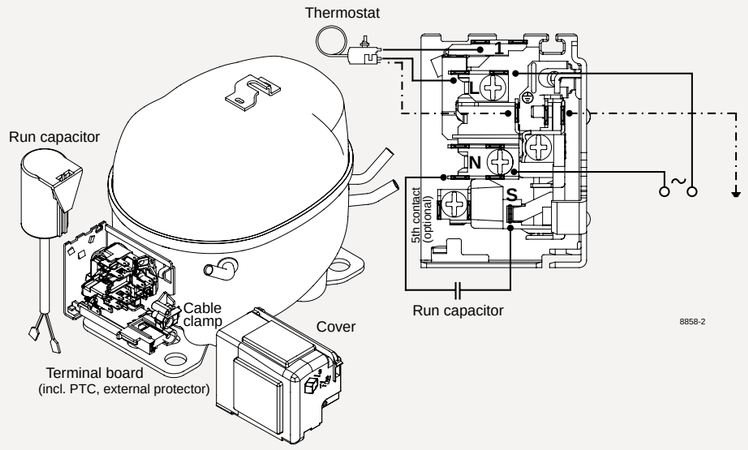


SCE - external protector



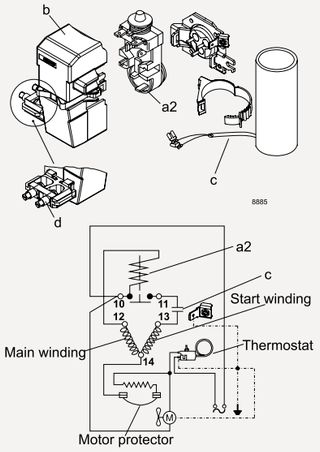
LST - RSCR

HKK/HTK/HXK/HZK - external protector, terminial board for HZK includes an ePTC



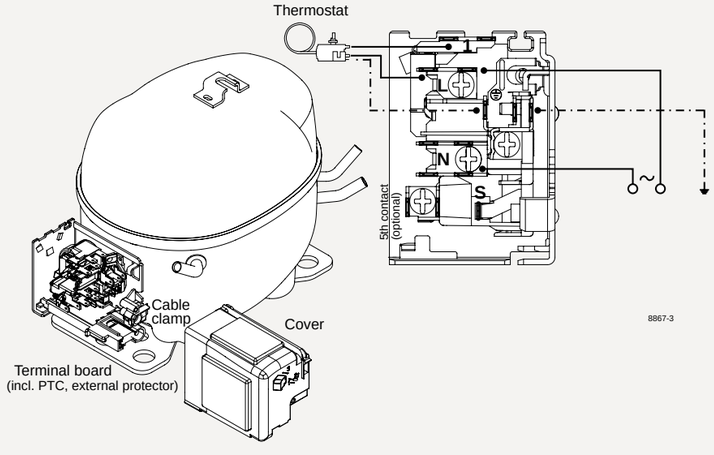
HST - CSIR

SCE - external protector



LST - RSIR

HMK/HTK/HXK-AT - external protector



LST - RSCR

PLE