

**TL4.5CLX**  
**LBP Compressor**  
**R404A/R507**  
**220-240V 50Hz**

## General

Code number	102U2111
Approvals	EN 60335-2-34
Compressors on pallet	125

## Application

Application		LBP	
Frequency	Hz	50	60
Evaporating temperature	°C	-40 to -10	–
Voltage range	V	187 - 254	–
Max. condensing temperature continuous (short)	°C	55 (60)	–
Max. winding temperature continuous (short)	°C	125 (135)	–

### Cooling requirements

Frequency	Hz	50			60		
Application		LBP	MBP	HPB	LBP	MBP	HPB
32°C	F <sub>2</sub>	—	—	—	—	—	—
38°C	F <sub>2</sub>	—	—	—	—	—	—
43°C	F <sub>2</sub>	—	—	—	—	—	—
Remarks on application:							

## Motor

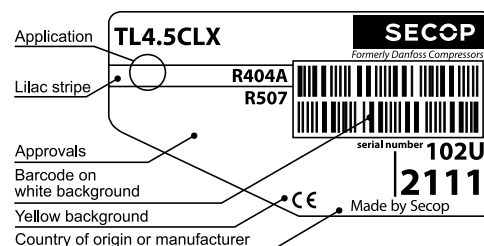
Motor type	CSIR		
LRA (rated after 4 sec. UL984), HST   LST	A	7.5	–
Cut in Current, HST   LST	A	7.5	–
Resistance, main   start winding (25°C)	Ω	12.0	20.0

## Design

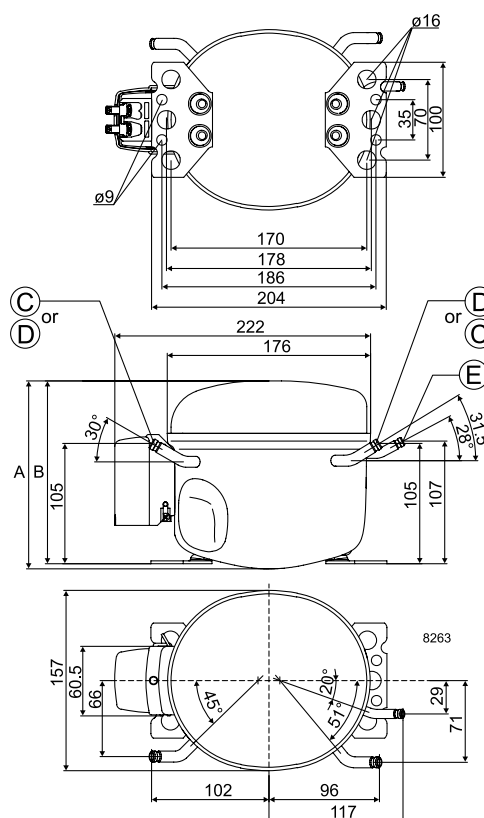
Displacement	cm <sup>3</sup>	4.63
Oil quantity (type)	cm <sup>3</sup>	280 (polyolester)
Maximum refrigerant charge	g	600
Free gas volume in compressor	cm <sup>3</sup>	1690
Weight without electrical equipment	kg	7.6

## Dimensions

Height	mm	A	173
		B	169
		B1	—
		B2	—
Suction connector	location/I.D. mm   angle	C	6.2   30°
	material   comment		Cu-plated steel   Al cap
Process connector	location/I.D. mm   angle	D	6.2   31.5°
	material   comment		Cu-plated steel   Al cap
Discharge connector	location/I.D. mm   angle	E	5.0   28°
	material   comment		Cu-plated steel   Al cap
Oil cooler connector	location/I.D. mm   angle	F	—
	material   comment		—
Connector tolerance	I.D. mm		±0.09, on 5.0 +0.12/+0.20
Remarks: Drawing shows cover 103N2010.			



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

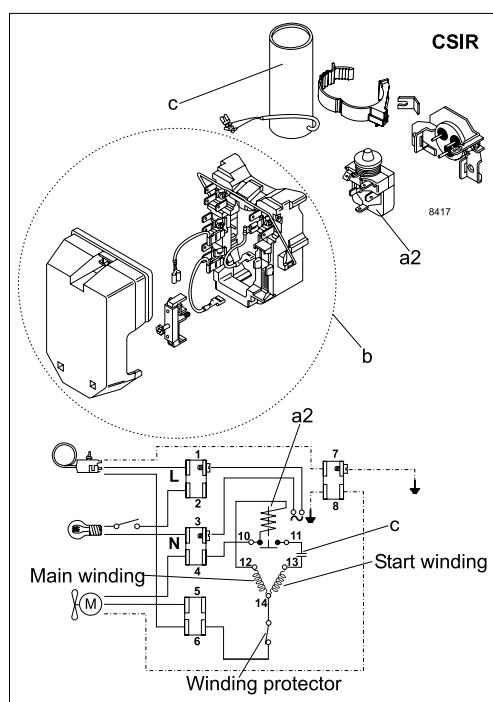


**EN 12900 Household (CECOMAF)\*** 220V, 50Hz, fan cooling F<sub>2</sub>

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W		80	106	139	181	197	232	294	366								
Power cons. in W		121	138	158	181	188	204	228	252								
Current cons. in A		1.15	1.21	1.28	1.36	1.39	1.44	1.54	1.64								
COP in W/W		0.66	0.76	0.88	1.00	1.05	1.14	1.29	1.45								

**ASHRAE LBP\*** 220V, 50Hz, fan cooling F<sub>2</sub>

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W		95	125	165	214	233	275	347	433								
Power cons. in W		122	139	158	180	187	202	226	249								
Current cons. in A		1.16	1.22	1.29	1.36	1.38	1.44	1.53	1.62								
COP in W/W		0.78	0.90	1.04	1.19	1.25	1.36	1.54	1.74								



Accessories for	TL4.5CLX	Figure	Code number
PTC starting device	6.3 mm spade connectors	a1	—
	4.8 mm spade connectors		—
Starting relay	6.3 mm spade connectors	a2	117U6001
Start. capacitor 60 µF	6.3 mm spade connectors	c	117U5014
Cover with terminal board		b	117U1022
Cord relief		d	—
Protection screen for PTC		g	—

Test conditions	EN 12900/ CECOMAF*	ASHRAE LBP*
Condensing temperature	45°C	43.3°C
Ambient temperature	32°C	32°C
Suction gas temperature	32°C	32°C
Liquid temperature	no subcooling	32°C

Mounting accessories	Code number	
Bolt joint for one comp.	Ø: 16 mm	118-1917
Bolt joint in quantities	Ø: 16 mm	118-1918
Snap-on in quantities	Ø: 16 mm	118-1919

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