

## SC12/12CLX LBP Twin Compressor R404A/R507 220-240V 60Hz

### General

Code number	104L4034
Approvals	UL984
Compressors on pallet	18

### Application

Application	LBP					
Frequency	Hz	50			60	
Evaporating temperature	°C	-			-40 to -10	
Voltage range	V	-			198 - 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	HBP	LBP	MBP	HBP
32°C		-	-	-	F <sub>2</sub>	-	-
38°C		-	-	-	F <sub>2</sub>	-	-
43°C		-	-	-	-	-	-
Remarks on application:							

### Motor

Motor type	CSIR		
LRA (rated after 4 sec. UL984) *, HST   LST	A	2 x 18.6	-
Cut in Current *, HST   LST	A	2 x 18.6	-
Resistance, main   start winding (25°C)	Ω	3.7	14.1

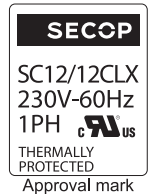
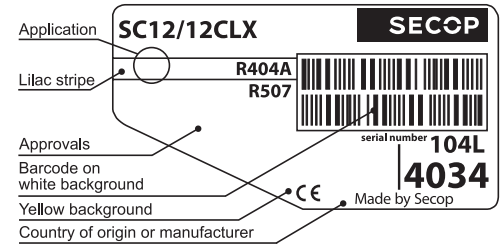
\* Operational current for the second compressor time-delayed.

### Design

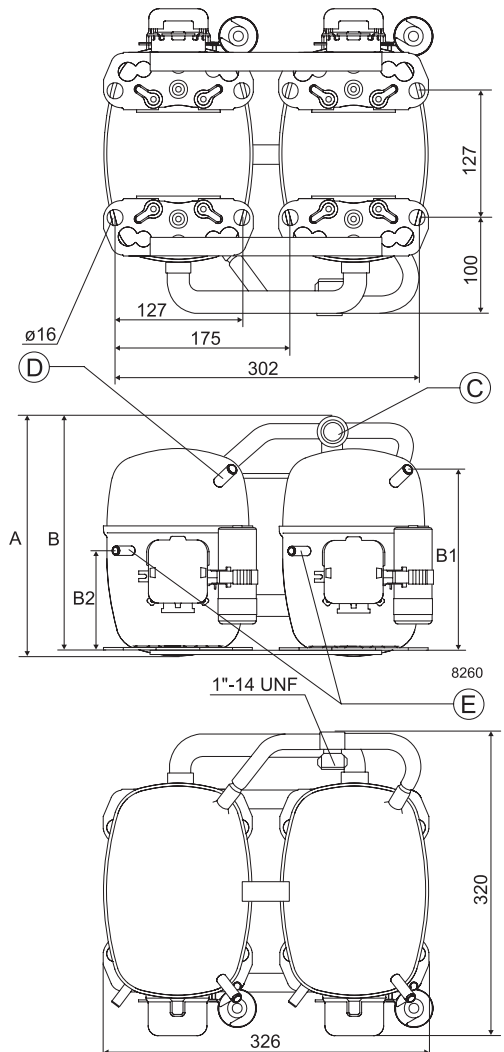
Displacement	cm <sup>3</sup>	2 x 12.87
Oil quantity (type)	cm <sup>3</sup>	1220 (polyolester)
Maximum refrigerant charge	g	2200
Free gas volume in compressor	cm <sup>3</sup>	2820
Weight without electrical equipment	kg	28.0

### Dimensions

Height	mm	A	259
		B	254
		B1	193
		B2	110
Suction connector (service valve)	location/I.D. mm	C	12   37°
Suction connector (solder connector)	location/I.D. mm	C	12   37°
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
Oil cooler connector	location/I.D. mm   angle	F	-
	material   comment		-
Connector tolerance	I.D. mm		±0.09
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\***

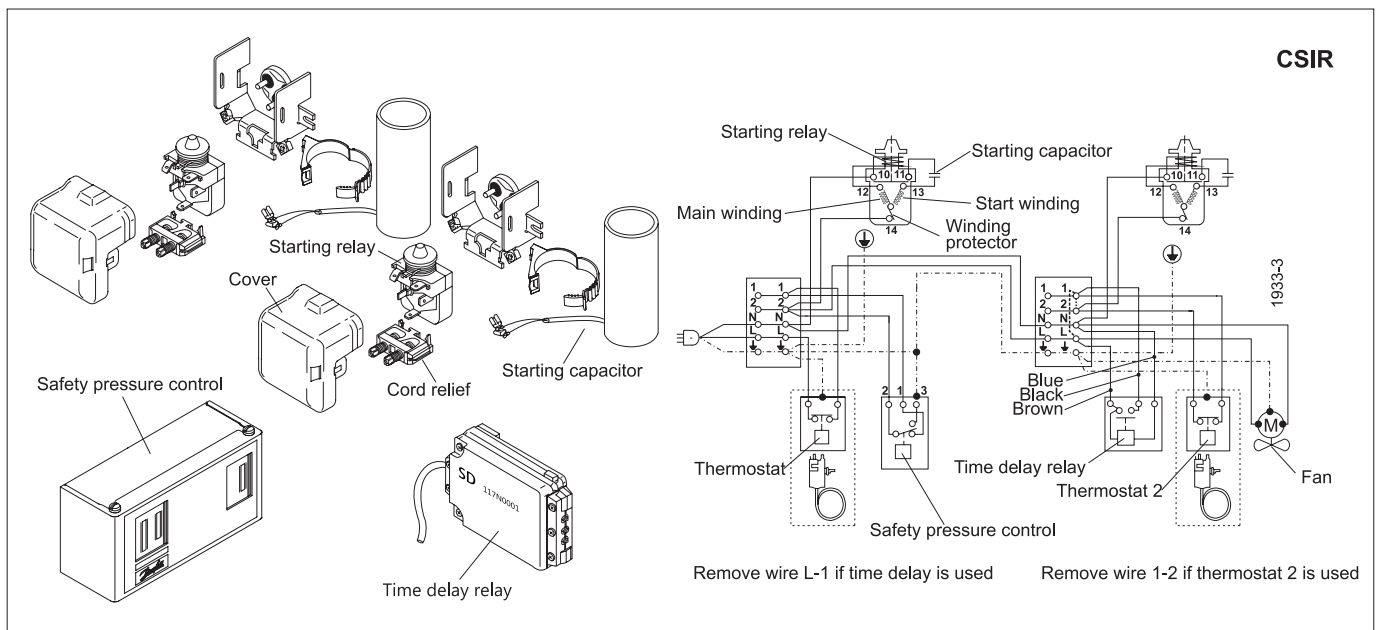
230V, 60Hz, fan cooling F<sub>2</sub>

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		338	654	994	1370	1506	1788	2260	2794								
Power cons. in W		554	752	924	1080	1132	1232	1392	1568								
Current cons. in A		5.16	5.50	5.92	6.46	6.66	7.08	7.82	8.64								
COP in W/W		0.61	0.87	1.08	1.27	1.33	1.45	1.62	1.78								

**EN 12900 Household (CECOMAF)\***

230V, 60Hz, fan cooling F<sub>2</sub>

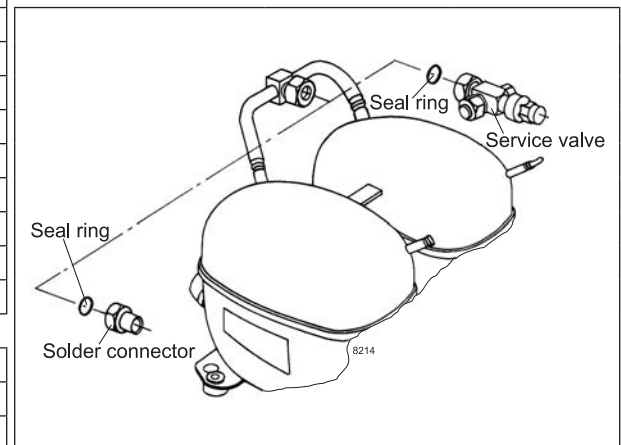
Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W		292	564	858	1180	1298	1540	1944	2400								
Power cons. in W		554	752	924	1080	1132	1232	1392	1568								
Current cons. in A		5.16	5.50	5.92	6.46	6.66	7.08	7.82	8.64								
COP in W/W		0.53	0.75	0.93	1.09	1.15	1.25	1.40	1.53								



Accessories	SC12/12CLX	pcs.	Code number
Starting device	470 mm cable length		-
	550 mm cable length	2	-
	650 mm cable length		-
Starting relay	6.3 mm spade connectors	2	117U6019
Start. capacitor 80 µF	6.3 mm spade connectors	2	117U5017
Cover		2	103N2009
Cord relief		2	103N1004
Time-delay relay		1	117N0001
Check valve (to be used with time-delay relay)		2	020-1014
Service valve	12 mm	1	118-7350
Solder connector (alternative)	12 mm	1	104B0584
Service valve	16 mm	1	-
Solder connector (alternative)	16 mm	1	-
Seal ring for service valve and solder connector		1	118-3638

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

Mounting accessories		pcs.	Code number
Bolt joint for one compressor	Ø: 16 mm	2	118-1917
Bolt joint in quantities	Ø: 16 mm	2	118-1918



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