

## GS21CLX LBP Compressor R404A/R507 208-230V 60Hz

### General

Code number	107B0506
Approvals	UL984
Compressors on pallet	48

### Application

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

### Cooling requirements

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

### Motor

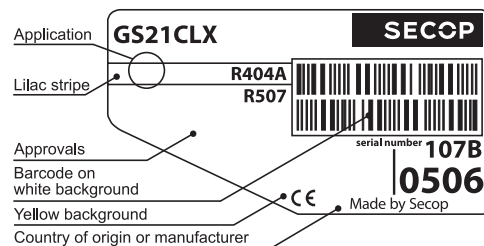
Motor type	CSR		
LRA (rated after 4 sec. UL984), HST   LST	A	27.2	-
Cut in Current, HST   LST	A	27.2	-
Resistance, main   start winding (25°C)	Ω	2.6	5.0

### Design

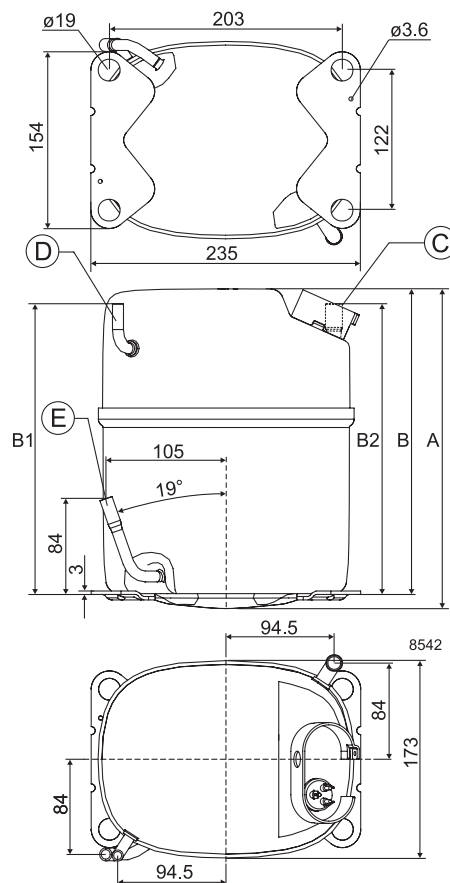
Displacement	cm <sup>3</sup>	21.20
Oil quantity (type)	cm <sup>3</sup>	900 (polyolester)
Maximum refrigerant charge	g	2000
Free gas volume in compressor	cm <sup>3</sup>	3220
Weight without electrical equipment	kg	20.0

### Dimensions

Height	mm	A	279
		B	247
		B1	234
		B2	234
Suction connector	location/I.D. mm   angle	C	12.9   90°
	material   comment		Copper   Rubber plug
Process connector	location/I.D. mm   angle	D	6.5   90°
	material   comment		Copper   Rubber plug
Discharge connector	location/I.D. mm   angle	E	8.2   19°
	material   comment		Copper   Rubber plug
Oil cooler connector	location/I.D. mm   angle	F	-
	material   comment		-
Connector tolerance	I.D. mm		12.9±0.15, 8.2 ±0.05, 6.5 ±0.10
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



**EN 12900**

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		475	674	905	1172	1270	1480	1837	2246								
Power cons. in W		559	668	770	868	900	966	1069	1180								
Current cons. in A		2.44	2.90	3.35	3.81	3.96	4.26	4.71	5.16								
COP in W/W		0.85	1.01	1.18	1.35	1.41	1.53	1.72	1.90								

**ARI 540-99 (LBP1)**

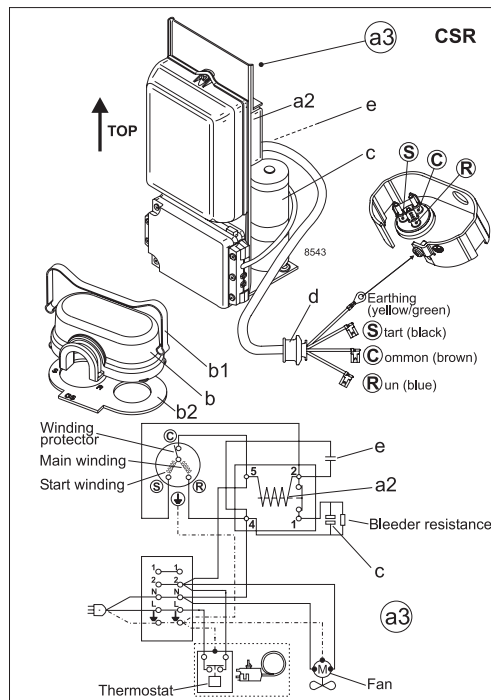
230V, 60Hz, fan cooling F<sub>2</sub>

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		322	492	682	898	976	1145	1428	1753								
Power cons. in W		508	643	768	887	926	1004	1123	1248								
Current cons. in A		2.29	2.82	3.35	3.87	4.05	4.40	4.92	5.44								
COP in W/W		0.63	0.76	0.89	1.01	1.05	1.14	1.27	1.41								

**ARI 540-99 (LBP2)**

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		445	634	853	1105	1198	1397	1735	2123								
Power cons. in W		556	667	770	870	902	969	1072	1184								
Current cons. in A		2.43	2.89	3.35	3.81	3.96	4.27	4.72	5.18								
COP in W/W		0.80	0.95	1.11	1.27	1.33	1.44	1.62	1.79								



Accessories for GS21CLX	Figure	Code number	Test conditions	EN 12900	ARI 540-99 (LBP1)	ARI 540-99 (LBP2)
Starting device 600 mm cable length	a3	117-7073	Condensing temperature	40°C	48.9°C	40.6°C
			Ambient temperature	32°C	35°C	35°C
			Suction gas temperature	20°C	4.4°C	4.4°C
			Liquid temperature	no subcooling	no subcooling	no subcooling
Cover	b	107B9106 *)				
Clamp	b1	107B9104 *)				
Gasket	b2	107B9100 *)				
Starting relay	a2	Components of starting device	<b>Mounting accessories</b>			
Start. capacitor	c		Code number			
Run capacitor	e		107B9150			
*) Remarks: Cover, clamp, gasket parts of compressor			Bolt joint in quantities			
			Snap-on in quantities			

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