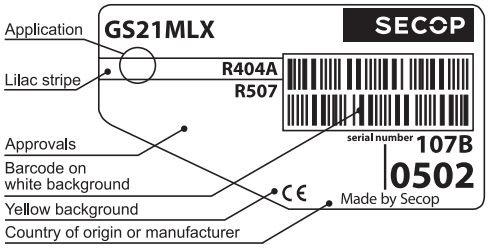
GS21MLX
MBP Compressor
R404A/R507
220-240V 50Hz



General

Code number	107B0502
Approvals	EN 60335-2-34
Compressors on pallet	48

Application

Application		MBP	
Frequency	Hz	50	60
Evaporating temperature	°C	-20 to 7.2	–
Voltage range	V	198 - 254	–
Max. condensing temperature continuous (short)	°C	50 (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_2	–	–	–	–
38°C		–	F_2	–	–	–	–
43°C		–	F_2	–	–	–	–
Remarks on application:							

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary
SG = Suction gas cooling normally sufficent
– = not applicable in this area

Motor

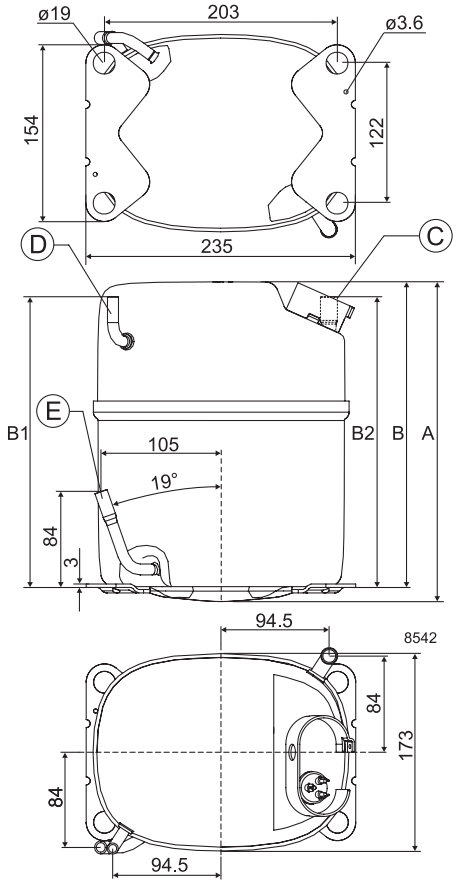
Motor type		CSR	
LRA (rated after 4 sec. UL984), HST | LST	A	24.4	–
Cut in Current, HST | LST	A	24.4	–
Resistance, main | start winding (25°C)	Ω	2.5	6.8

Design

Displacement	cm^3	21.20
Oil quantity (type)	cm^3	900 (polyolester)
Maximum refrigerant charge	g	2000
Free gas volume in compressor	cm^3	3350
Weight without electrical equipment	kg	19.1

Dimensions

Height	mm	A	259
		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:			



EN 12900 220V, 50Hz, fan cooling F_2

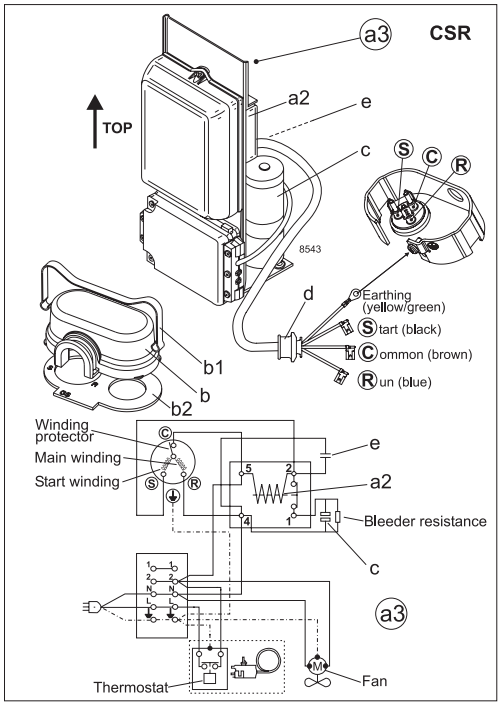
Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W							1096	1394	1748	2018	2164	2650	3211	3483			
Power cons. in W							797	883	965	1019	1046	1128	1212	1252			
Current cons. in A							3.79	4.17	4.56	4.82	4.95	5.34	5.74	5.91			
COP in W/W							1.38	1.58	1.81	1.98	2.07	2.35	2.65	2.78			

ARI 540-99 (MBP) 220V, 50Hz, fan cooling F_2

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							937	1194	1499	1731	1857	2275					
Power cons. in W							809	905	995	1055	1084	1173					
Current cons. in A							3.86	4.28	4.70	4.98	5.12	5.55					
COP in W/W							1.16	1.32	1.51	1.64	1.71	1.94					

ARI 540-99 (HBP) 220V, 50Hz, fan cooling F_2

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							854	1090	1370	1583	1698	2082	2528	2748			
Power cons. in W							825	936	1041	1109	1143	1243	1345	1391			
Current cons. in A							3.96	4.43	4.89	5.21	5.37	5.84	6.31	6.52			
COP in W/W							1.03	1.16	1.32	1.43	1.49	1.68	1.88	1.98			



Accessories for GS21MLX	Figure	Code number
Starting device 600 mm cable length	a3	117-7070
Cover	b	107B9101 *)
Clamp	b1	107B9104 *)
Gasket	b2	107B9100 *)
Starting relay	a2	Components of starting device
Start. capacitor	c	
Run capacitor	e	
*) Remarks: Cover, clamp, gasket parts of compressor		

Test conditions	EN 12900	ARI 540-99 (MBP)	ARI 540-99 (HBP)
Condensing temperature	45°C	48.9°C	54.4°C
Ambient temperature	32°C	35°C	35°C
Suction gas temperature	20°C	4.4°C	18.3°C
Liquid temperature	no subcooling	no subcooling	no subcooling

Mounting accessories	Code number
Bolt joint for one comp.	107B9150
Bolt joint in quantities	–
Snap-on in quantities	–