

## GS34MFX Standard Compressor R134a 220-240V 50Hz

### General

Code number	107B0701
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	60 (70)	-
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		-	F <sub>2</sub>	-	-	-	-
Remarks on application:							

### Motor

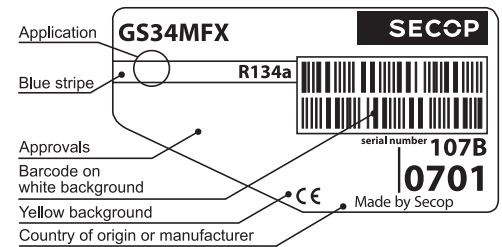
Motor type	CSR		
LRA (rated after 4 sec. UL984), HST   LST	A	25.7	-
Cut in Current, HST   LST	A	25.7	-
Resistance, main   start winding (25°C)	Ω	2.9	5.1

### Design

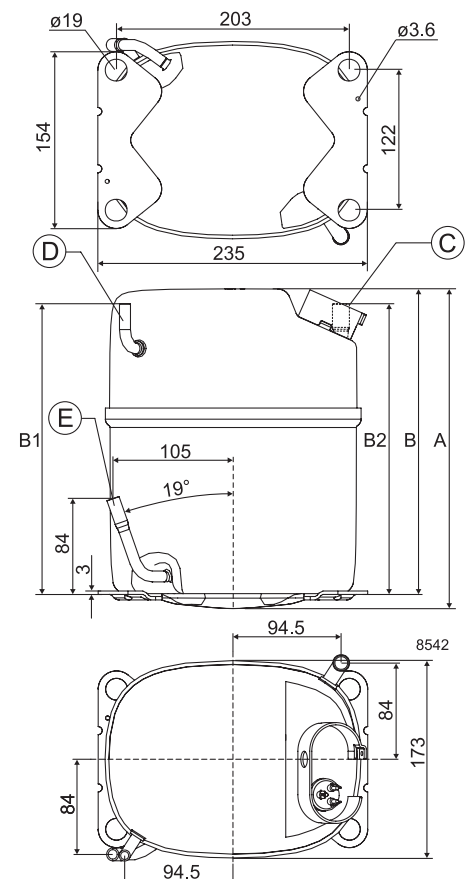
Displacement	cm <sup>3</sup>	33.80
Oil quantity (type)	cm <sup>3</sup>	900 (polyolester)
Maximum refrigerant charge	g	2000
Free gas volume in compressor	cm <sup>3</sup>	3350
Weight without electrical equipment	kg	20.0

### 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:			



- 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**

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							998	1296	1648	1918	2063	2550	3115	3392			
Power cons. in W							722	815	909	974	1008	1115	1234	1291			
Current cons. in A							3.78	4.16	4.59	4.90	5.06	5.58	6.13	6.39			
COP in W/W							1.38	1.59	1.81	1.97	2.05	2.29	2.52	2.63			

**ARI 540-99 (MBP)**

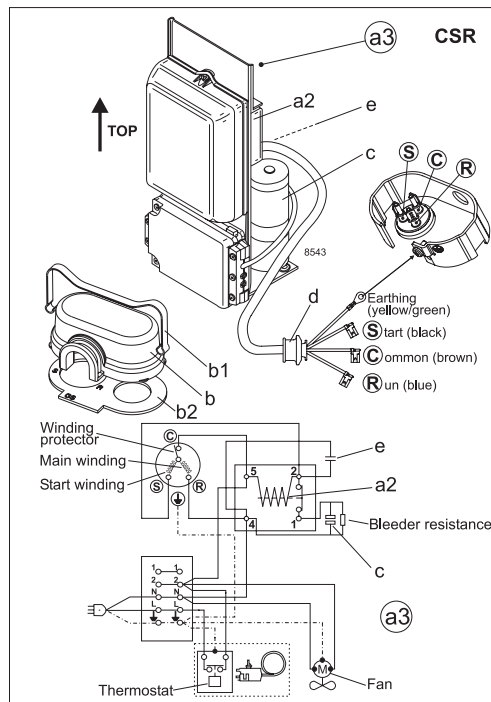
220V, 50Hz, fan cooling F<sub>2</sub>

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							898	1175	1502	1752	1888	2341					
Power cons. in W							731	833	935	1005	1040	1152					
Current cons. in A							3.81	4.22	4.67	5.00	5.17	5.70					
COP in W/W							1.23	1.41	1.61	1.74	1.82	2.03					

**ARI 540-99 (HBP)**

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							822	1088	1401	1640	1769	2200	2703	2952			
Power cons. in W							741	860	975	1053	1092	1213	1342	1402			
Current cons. in A							3.86	4.30	4.78	5.12	5.30	5.87	6.47	6.76			
COP in W/W							1.11	1.27	1.44	1.56	1.62	1.81	2.01	2.11			



Accessories for GS34MFX	Figure	Code number	Test conditions	EN 12900	ARI 540-2004 (MBP)	ARI 540-2004 (HBP)
Starting device 600 mm cable length	a3	117-7056	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
Cover	b	107B9101 *)				
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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