

FR6G Universal Compressor R134a 220-240V 50/60Hz

General

Code number	103G6660
Approvals	EN 60335-2-34
Compressors on pallet	80

Application

Application	LBP/HBP	LBP
Frequency	Hz 50	60
Evaporating temperature	°C -30 to 10	-30 to -10
Voltage range	V 187 - 254	198 - 254
Max. condensing temperature continuous (short)	°C 60 (70)	60 (70)
Max. winding temperature continuous (short)	°C 125 (135)	125 (135)

Cooling requirements

Frequency	Hz	50	60
Application		LBP MBP HBP	LBP MBP HBP
32°C		S F ₂ F ₂	S - -
38°C		S F ₂ F ₂	S - -
43°C		S F ₂ F ₂	S - -
Remarks on application: HBP at 198 - 254V 50Hz only.			

Motor

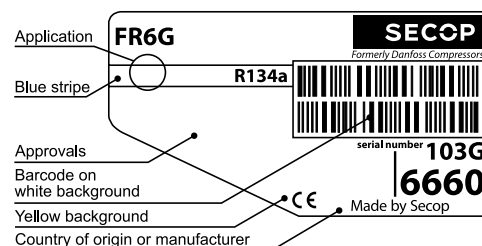
Motor type	RSIR/CSIR
LRA (rated after 4 sec. UL984), HST LST	A 7.5 5.8
Cut in Current, HST LST	A 7.5 10.5
Resistance, main start winding (25°C)	Ω 12.6 12.4

Design

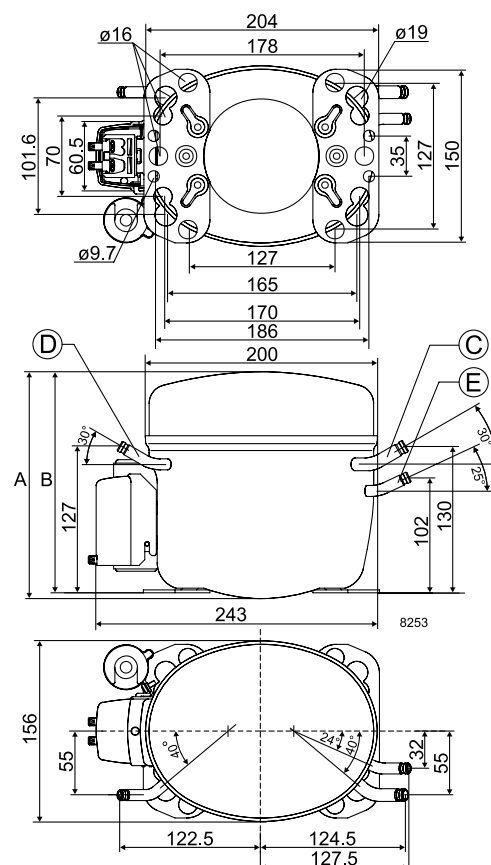
Displacement	cm ³	6.23
Oil quantity (type)	cm ³	450 (polyolester)
Maximum refrigerant charge	g	900
Free gas volume in compressor	cm ³	1350
Weight without electrical equipment	kg	10.6

Dimensions

Height	mm	A	196
		B	191
		B1	-
		B2	-
Suction connector	location/I.D. mm angle	C	8.2 30°
	material comment		Cu-plated steel Al cap
Process connector	location/I.D. mm angle	D	6.2 30°
	material comment		Cu-plated steel Al cap
Discharge connector	location/I.D. mm angle	E	6.2 25°
	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
Remarks:			



- S = Static cooling normally sufficient
O = Oil cooling
F₁ = Fan cooling 1.5 m/s
(compressor compartment temperature equal to ambient temperature)
F₂ = 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 F₂

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				47.7	83.3	96.5	124	171	226	267	290	365	452	494	552		
Power cons. in W				91.3	109	115	129	149	172	186	194	218	241	251	264		
Current cons. in A				0.79	0.85	0.87	0.91	0.98	1.06	1.11	1.14	1.23	1.33	1.37	1.43		
COP in W/W				0.52	0.76	0.84	0.96	1.14	1.32	1.43	1.49	1.68	1.88	1.97	2.09		

EN 12900 Household (CECOMAF) 220V, 60Hz, fan cooling F₂

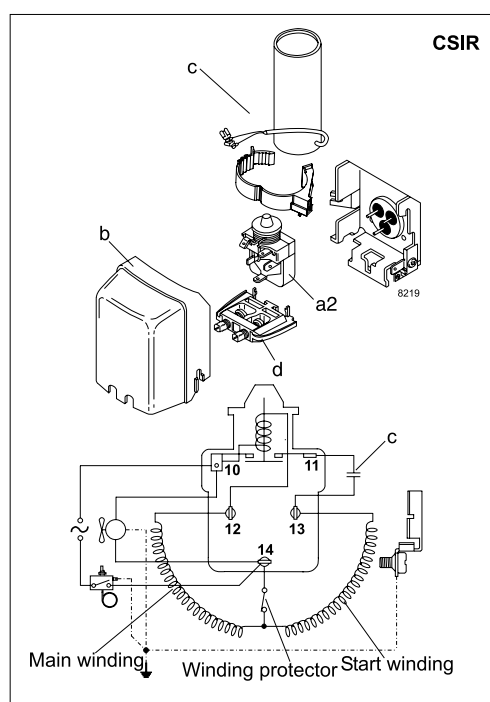
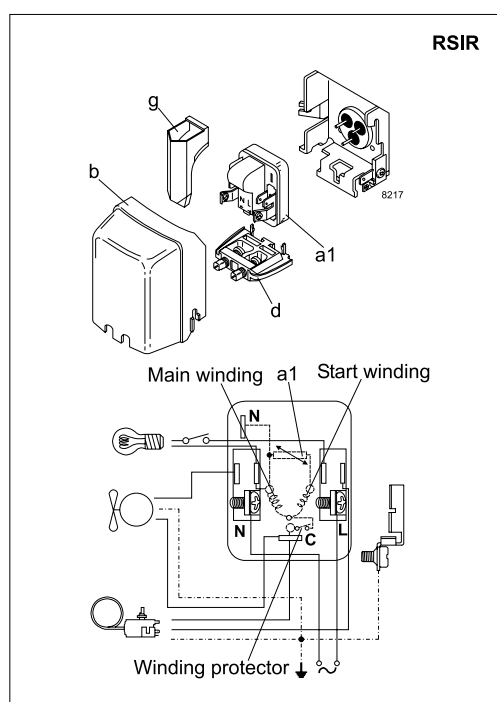
Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W				50.6	92.5	108	141	199	266								
Power cons. in W				94.8	119	127	144	170	197								
Current cons. in A				0.69	0.77	0.80	0.86	0.97	1.09								
COP in W/W				0.53	0.78	0.85	0.98	1.17	1.35								

ASHRAE LBP 220V, 50Hz, fan cooling F₂

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				58.9	103	119	153	211	279	330	359	452	561	614	687		
Power cons. in W				91.3	109	115	129	149	172	186	194	218	241	251	264		
Current cons. in A				0.79	0.85	0.87	0.91	0.98	1.06	1.11	1.14	1.23	1.33	1.37	1.43		
COP in W/W				0.64	0.94	1.03	1.19	1.41	1.63	1.77	1.85	2.08	2.33	2.44	2.60		

ASHRAE LBP 220V, 60Hz, fan cooling F₂

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				62.4	114	134	175	246	329								
Power cons. in W				94.8	119	127	144	170	197								
Current cons. in A				0.69	0.77	0.80	0.86	0.97	1.09								
COP in W/W				0.66	0.96	1.05	1.21	1.44	1.67								



Accessories for	FR6G	Figure	Code number
PTC starting device	6.3 mm spade connectors	a1	103N0011
	4.8 mm spade connectors		103N0018
Starting relay	6.3 mm spade connectors	a2	117U6000
Start. capacitor 80 µF	6.3 mm spade connectors	c	117U5015
Cover		b	103N2010
Cord relief		d	103N1010
Protection screen for PTC		g	103N0476

Test conditions	EN 12900/ CECOMAF	ASHRAE
Condensing temperature	55°C	55°C
Ambient temperature	32°C	32°C
Suction gas temperature	32°C	32°C
Liquid temperature	55°C	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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