

FR7.5CL LBP/MBP Compressor R404A/R507 220-240V 50Hz

General

Code number	103U2790
Approvals	EN 60335-2-34
Compressors on pallet	80

Application

Application	LBP/MBP		
Frequency	Hz	50	60
Evaporating temperature	°C	-45 to -5	-
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	F ₂	-	-	-	-
38°C		F ₂	F ₂	-	-	-	-
43°C		-	-	-	-	-	-
Remarks on application:							

Motor

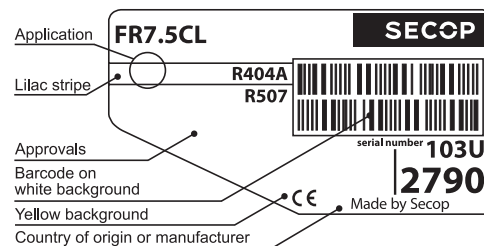
Motor type	CSIR		
LRA (rated after 4 sec. UL984), HST LST	A	9.1	-
Cut in Current, HST LST	A	9.1	-
Resistance, main start winding (25°C)	Ω	8.8	12.0

Design

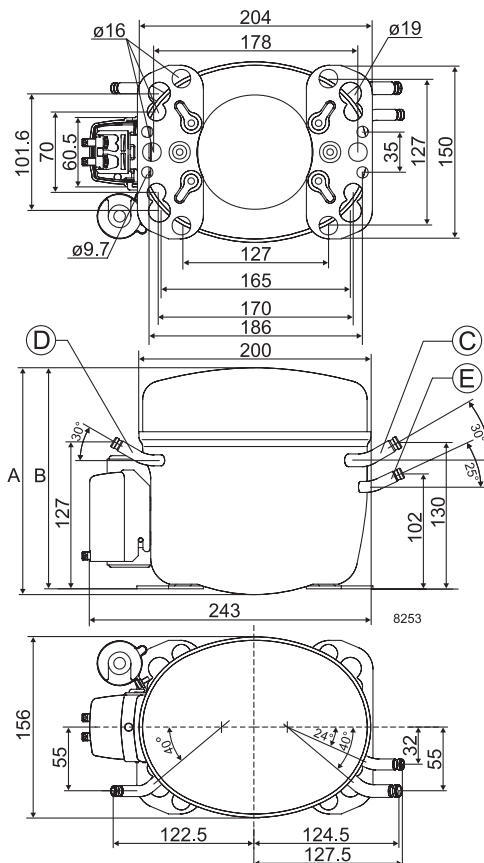
Displacement	cm ³	6.93
Oil quantity (type)	cm ³	450 (polyolester)
Maximum refrigerant charge	g	850
Free gas volume in compressor	cm ³	1350
Weight without electrical equipment	kg	10.6

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

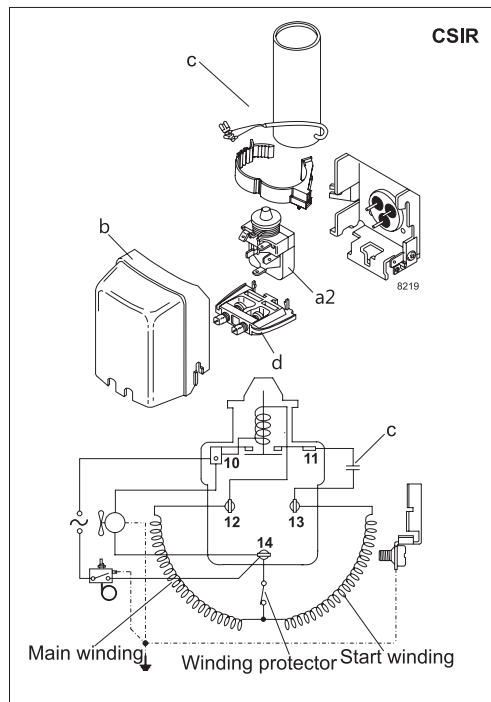


EN 12900 Household (CECOMAF) 220V, 50Hz, fan cooling F₂

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	86	114	154	202	262	285	333	418	515	587	630						
Power cons. in W	142	168	197	231	267	280	307	349	395	425	440						
Current cons. in A	1.39	1.44	1.52	1.62	1.75	1.81	1.91	2.09	2.28	2.43	2.51						
COP in W/W	0.61	0.68	0.78	0.88	0.98	1.02	1.09	1.20	1.30	1.38	1.43						

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	101	132	178	235	305	333	388	488	602	688	737						
Power cons. in W	142	168	197	231	267	280	307	349	395	425	440						
Current cons. in A	1.39	1.44	1.52	1.62	1.75	1.81	1.91	2.09	2.28	2.44	2.51						
COP in W/W	0.71	0.79	0.90	1.02	1.14	1.19	1.27	1.40	1.53	1.62	1.67						



Accessories for	FR7.5CL	Figure	Code number	Test conditions	EN 12900/CECOMAF	ASHRAE LBP*
PTC starting device	6.3 mm spade connectors	a1	–	Condensing temperature	45°C	45°C
	4.8 mm spade connectors		–	Ambient temperature	32°C	32°C
Starting relay	6.3 mm spade connectors	a2	117U6016	Suction gas temperature	32°C	32°C
Cover		b	103N2010	Liquid temperature	no subcooling	32°C
Start. capacitor 80 µF	6.3 mm spade connectors	c	117U5015	Mounting accessories		
Cord relief		d	103N1010	Bolt joint for one comp.	Ø: 16 mm	118-1917
Protection screen for PTC		g	–	Bolt joint in quantities	Ø: 16 mm	118-1918
				Snap-on in quantities	Ø: 16 mm	118-1919

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