

# FR8.5CL LBP Compressor R404A/R507 220-240V 50Hz

## General

Code number	103U2890
Approvals	EN 60335-2-34
Compressors on pallet	80

# **Application**

Application		LBP			
Frequency	Hz	50	60		
Evaporating temperature	°C	-45 to -10	_		
Voltage range	V	198 - 254	_		
Max. condensing temperature continuous (short)	°C	50 (60)	_		
Max. winding temperature continuous (short)	°C	125 (135)	_		

# **Cooling requirements**

Hz		50			60			
	LBP	МВР	HBP	LBP	МВР	НВР		
	F <sub>2</sub>	_	_	_	_	_		
	F <sub>2</sub>	-	_	_	_	_		
	_	_	_	_	_	_		
	Hz	F <sub>2</sub>	LBP   MBP   F <sub>2</sub>   -	LBP MBP HBP F <sub>2</sub> F <sub>2</sub>	LBP MBP HBP LBP F <sub>2</sub> F <sub>2</sub>	LBP   MBP   HBP   LBP   MBP     F2   -   -   -     -		

Remarks on application:

# Application FR8.5CL SECOP Formerly Danies Compressors R404A R507 Approvals Barcode on white background Yellow background Country of origin or manufacturer SECOP Formerly Danies Compressors FORMATION SECOP FORMATION SECOP

S = Static cooling normally sufficient

= 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 sufficent

= not applicable in this area

### Motor

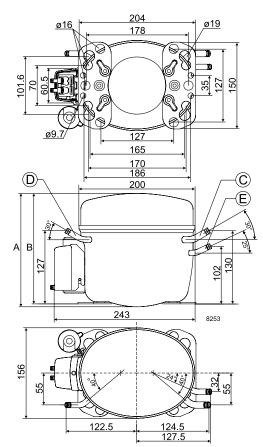
Motor type	CSIR			
LRA (rated after 4 sec. UL984), HST   LST	Α	10.0	_	
Cut in Current, HST   LST	Α	10.0	_	
Resistance, main   start winding (25°C)	Ω	7.3	12.0	

#### Design

Displacement	cm <sup>3</sup>	7.95
Oil quantity (type)	cm <sup>3</sup>	450 (polyolester)
Maximum refrigerant charge	g	850
Free gas volume in compressor	cm <sup>3</sup>	1350
Weight without electrical equipment	kg	10.6

### **Dimensions**

ocation/I.D. mm   angle material   comment		191 - - 8.2   30°
' "	B2 C	<u>-</u>
' "	С	<u>-</u>
' "		· · · · · · · · · · · · · · · · · · ·
material   comment	(	
	1	Cu-plated steel   Al cap
ocation/I.D. mm   angle	D	6.2   30°
material   comment	(	Cu-plated steel   Al cap
ocation/I.D. mm   angle	E	6.2   25°
material   comment	(	Cu-plated steel   Al cap
ocation/I.D. mm   angle	F	_
material   comment		_
I.D. mm		±0.09
	material   comment ocation/I.D. mm   angle material   comment ocation/I.D. mm   angle material   comment	material   comment   Cocation/I.D. mm   angle   E   material   comment   Cocation/I.D. mm   angle   F   material   cocation/I.D. mm   angle   Cocation/I.D. mm   ang

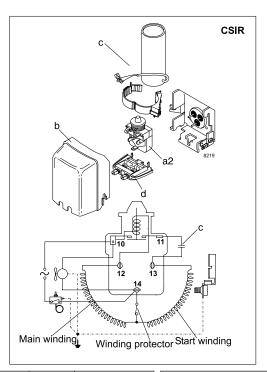


EN 12900 Household	(CECOMAF)	220V, 50Hz	, fan cooling Fa
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Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W	99	126	168	222	290	317	372	468	577								
Power cons. in W	171	198	231	271	315	331	364	417	472								
Current cons. in A	1.61	1.64	1.72	1.83	1.97	2.03	2.15	2.35	2.57								
COP in W/W	0.58	0.64	0.72	0.82	0.92	0.96	1.02	1.12	1.22								

ASHRAE LBP*	220V, 50Hz, fan cooling F

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	115	147	195	259	338	369	434	546	674								
Power cons. in W	171	198	231	271	315	331	364	417	472								
Current cons. in A	1.61	1.64	1.72	1.83	1.97	2.03	2.15	2.35	2.57								
COP in W/W	0.67	0.74	0.84	0.96	1.07	1.11	1.19	1.31	1.43								



Accessories for	FR8.5CL	Figure	Code number
PTC starting device	6.3 mm spade connectors	a1	_
	4.8 mm spade connectors	aı	_
Starting relay	6.3 mm spade connectors	a2	117U6010
Cover		b	103N2010
Start. capacitor 80 µF	6.3 mm spade connectors	С	117U5015
Cord relief		d	103N1010
Protection screen for	PTC	g	_

Test conditions	EN 12900/CECOMAF	ASHRAE LBP*
Condensing temperature	45°C	45°C
Ambient temperature	32°C	32°C
Suction gas temperature	32°C	32°C
Liquid temperature	no subcooling	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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