

SC12CNX LBP/MBP Compressor R290 220-240V 50Hz

General

Code number	104H8265
Approvals	EN 60335-2-34
Compressors on pallet	80

Application

Application	LBP/MBP		
Frequency	Hz	50	60
Evaporating temperature	°C	-40 to 5	-
Voltage range	V	198 - 254	-
Max. condensing temperature continuous (short)	°C	55 (65)	-
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		F ₂	F ₂	-	-	-	-
Remarks on application:							

Motor

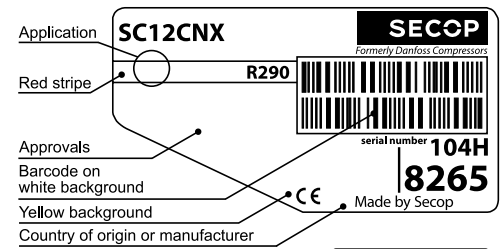
Motor type	CSR		
LRA (rated after 4 sec. UL984), HST LST	A	13.2	-
Cut in Current, HST LST	A	13.2	-
Resistance, main start winding (25°C)	Ω	7.3	28.8

Design

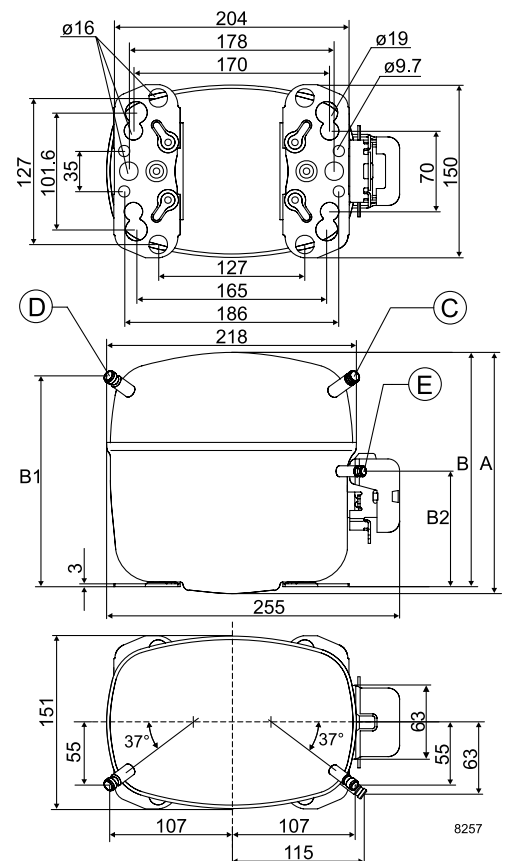
Displacement	cm ³	12.87
Oil quantity (type)	cm ³	600 (polyolester)
Maximum refrigerant charge	g	150
Free gas volume in compressor	cm ³	1410
Weight without electrical equipment	kg	13.1

Dimensions

Height	mm	A	209
		B	203
		B1	183
		B2	100
Suction connector	location/I.D. mm angle	C	8.2 37°
	material comment		Cu-plated steel Al cap
Process connector	location/I.D. mm angle	D	6.2 37°
	material comment		Cu-plated steel Al cap
Discharge connector	location/I.D. mm angle	E	6.2 37°
	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

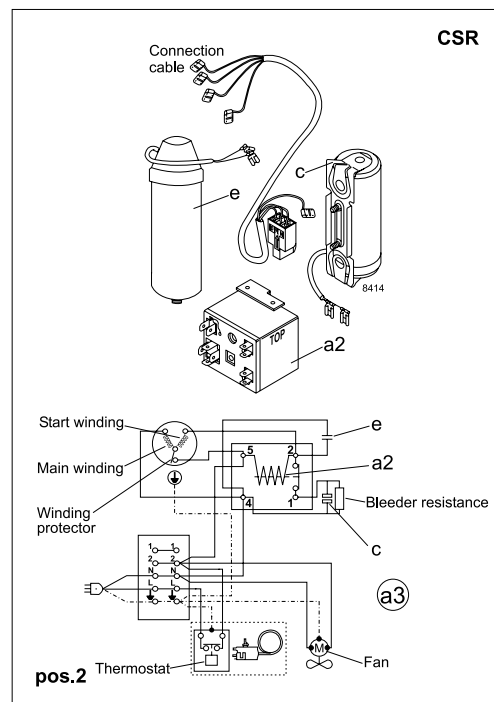
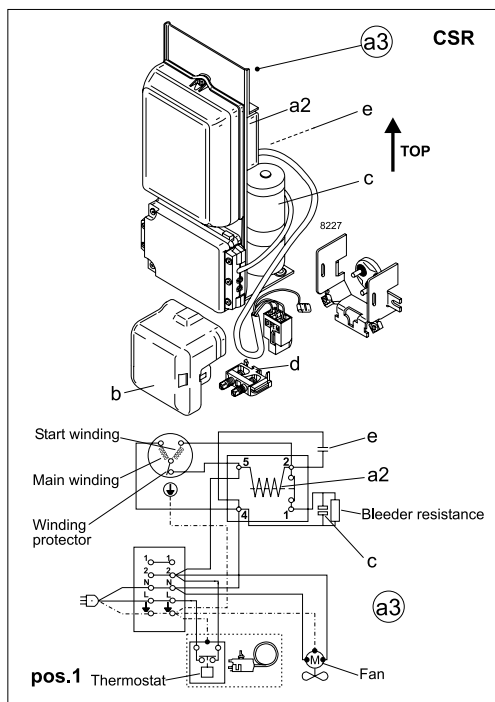


EN 12900 Household (CECOMAF)* 220V, 50Hz, fan cooling F₂

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		178	250	331	426	462	540	678	846	976	1050	1293	1582				
Power cons. in W		230	269	307	344	356	381	418	456	481	494	535	576				
Current cons. in A		1.28	1.44	1.60	1.76	1.81	1.92	2.09	2.27	2.38	2.45	2.63	2.8				
COP in W/W		0.77	0.93	1.08	1.24	1.30	1.42	1.62	1.86	2.03	2.12	2.42	2.74				

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		199	279	369	475	516	603	757	946	1091	1174	1447	1772				
Power cons. in W		230	269	307	344	356	381	418	456	481	494	535	576				
Current cons. in A		1.28	1.44	1.60	1.76	1.81	1.92	2.09	2.27	2.38	2.45	2.63	2.8				
COP in W/W		0.86	1.04	1.21	1.38	1.45	1.58	1.81	2.08	2.27	2.37	2.71	3.07				



Accessories for	SC12CNX	Figure	Code number
Starting device	470 mm cable length	a3	117-7049
	1000 mm cable length	(pos.1)	117-7014
Starting device (kit)	1520 mm cable length	(pos.2)	117-9719
Starting relay		a2	Components of starting device
Start. capacitor		c	
Run capacitor		e	
Cover		b	
Cord relief		d	103N1004

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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