

SC18CNX LBP/MBP Compressor R290 220-240V 50Hz

General

Code number	104H8867
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

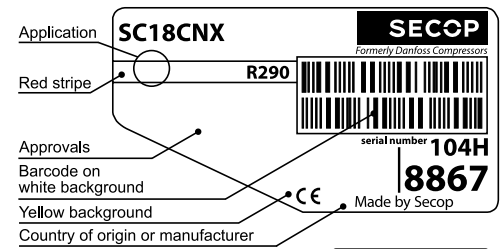
Motor type	CSR		
LRA (rated after 4 sec. UL984), HST LST	A	19.5	-
Cut in Current, HST LST	A	19.5	-
Resistance, main start winding (25°C)	Ω	4.6	17.8

Design

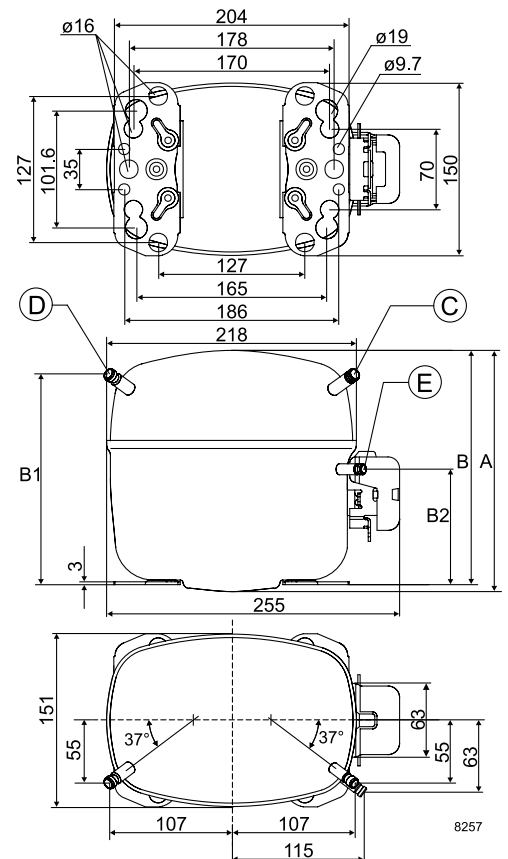
Displacement	cm ³	17.69
Oil quantity (type)	cm ³	600 (polyolester)
Maximum refrigerant charge	g	150
Free gas volume in compressor	cm ³	1460
Weight without electrical equipment	kg	13.5

Dimensions

Height	mm	A	209
		B	203
		B1	183
		B2	100
Suction connector	location/I.D. mm angle	C	9.7 37°
	material comment	Cu-plated steel Al cap	
Process connector	location/I.D. mm angle	D	6.5 37°
	material comment	Cu-plated steel Al cap	
Discharge connector	location/I.D. mm angle	E	6.5 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

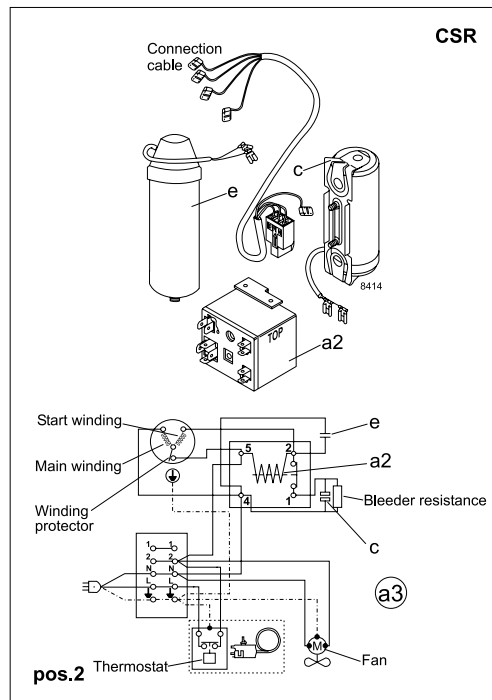
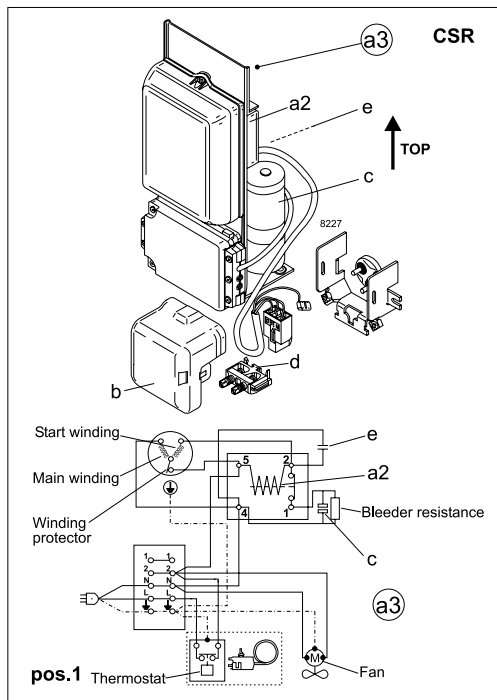


EN 12900 Household (CECOMAF)* 220V, 50Hz, fan cooling F₂

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		219	341	480	640	700	824	1033	1272	1448	1543	1849	2193				
Power cons. in W		304	370	435	500	522	566	635	707	756	783	864	952				
Current cons. in A		1.80	2.08	2.34	2.60	2.68	2.85	3.09	3.32	3.47	3.54	3.76	3.97				
COP in W/W		0.72	0.92	1.10	1.28	1.34	1.45	1.63	1.80	1.91	1.97	2.14	2.30				

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		244	380	535	714	781	919	1154	1422	1618	1726	2070	2456				
Power cons. in W		304	370	435	500	522	566	635	707	756	783	864	952				
Current cons. in A		1.80	2.08	2.34	2.60	2.68	2.85	3.09	3.32	3.47	3.54	3.76	3.97				
COP in W/W		0.80	1.03	1.23	1.43	1.49	1.62	1.82	2.01	2.14	2.20	2.39	2.58				



Accessories for	SC18CNX	Figure	Code number
Starting device	470 mm cable length	a3 (pos.1)	117-7034
Starting device (kit)	1020 mm cable length	(pos.2)	117-9718
Starting relay		a2	Components of starting device
Start. capacitor		c	
Run capacitor		e	
Cover		b	103N2009
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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