

TL3CN LBP/MBP Compressor R290 220-240V 50Hz

General

Code number	102H4380
Approvals	EN 60335-2-34
Compressors on pallet	125

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 (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 ₁	F ₁	-	-	-	-
38°C		F ₁	F ₁	-	-	-	-
43°C		F ₁	F ₁	-	-	-	-
Remarks on application:							

Motor

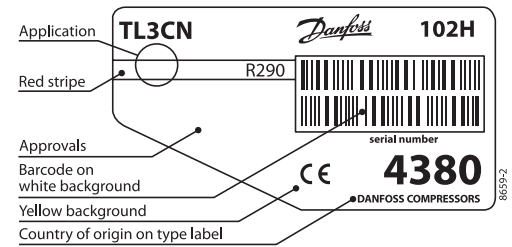
Motor type	RSIR/CSIR		
LRA (rated after 4 sec. UL984), HST LST	A	5.4	4.2
Cut in Current, HST LST	A	5.4	8.4
Resistance, main start winding (25°C)	Ω	17.9	17.7

Design

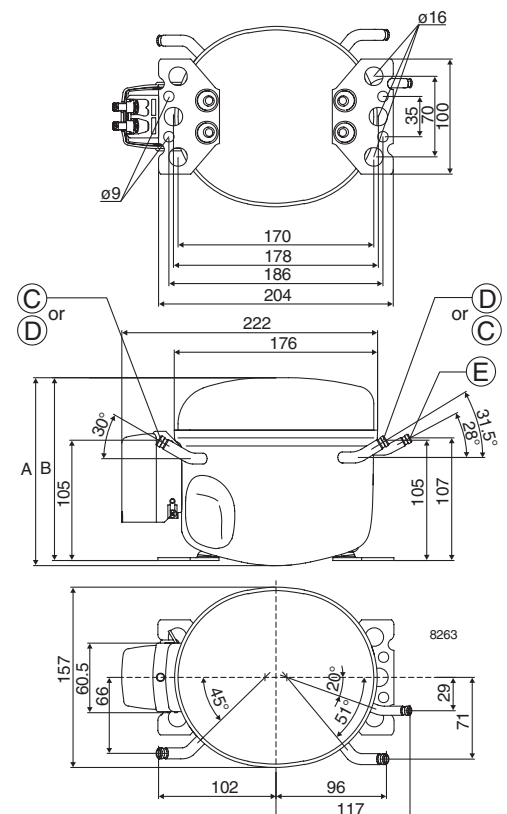
Displacement	cm ³	3.13
Oil quantity (type)	cm ³	280 (polyolester)
Maximum refrigerant charge	g	150
Free gas volume in compressor	cm ³	1590
Weight without electrical equipment	kg	6.8

Dimensions

Height	A	163
	B	159
	B1	-
	B2	-
Suction connector	location/I.D. mm angle	C 6.2 30°
	material comment	Cu-plated steel Al caps
Process connector	location/I.D. mm angle	D 6.2 31.5°
	material comment	Cu-plated steel Al caps
Discharge connector	location/I.D. mm angle	E 5.0 28°
	material comment	Cu-plated steel Al caps
Oil cooler connector	location/I.D. mm angle	F -
	material comment	-
Connector tolerance	I.D. mm	±0.09, on 5.0 +0.12/+0.20
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

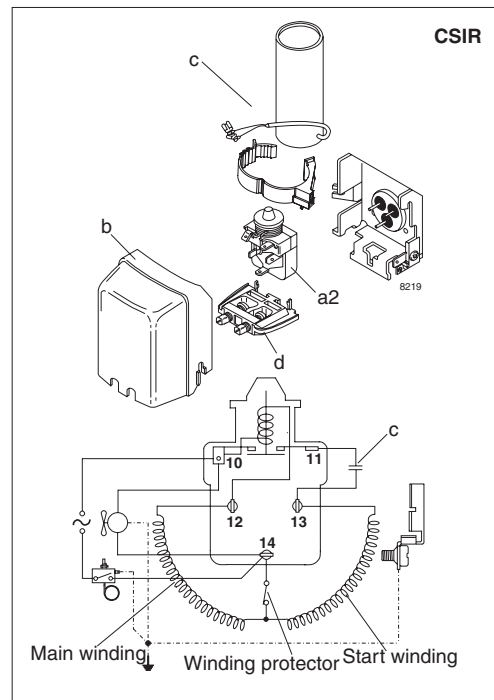
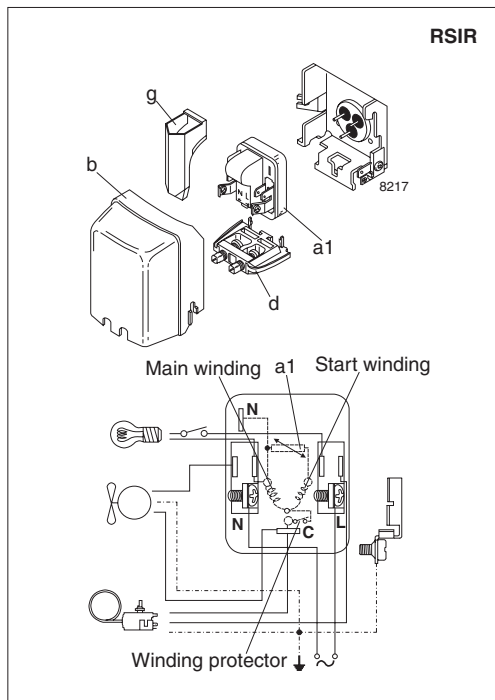


EN 12900 Household (CECOMAF)* 220V, 50Hz, 2W PTC consumption incl., fan cooling F₁

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		38	54	75	99	108	128	161	200	228	244	294	351				
Power cons. in W		81	90	99	108	111	117	126	135	141	144	153	162				
Current cons. in A		0.82	0.84	0.87	0.89	0.90	0.91	0.94	0.97	0.99	1.00	1.03	1.06				
COP in W/W		0.46	0.60	0.75	0.92	0.97	1.09	1.28	1.48	1.62	1.70	1.93	2.17				

ASHRAE LBP* 220V, 50Hz, 2W PTC consumption incl., fan cooling F₁

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		43	62	85	113	123.0	145	183	226	258	276	333	397				
Power cons. in W		81	90	99	107	110.4	116	125	133	139	142	150	159				
Current cons. in A		0.82	0.84	0.87	0.89	0.90	0.91	0.94	0.96	0.98	0.99	1.02	1.05				
COP in W/W		0.54	0.69	0.86	1.05	1.11	1.25	1.46	1.70	1.86	1.95	2.21	2.49				



Accessories for	TL3CN	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	117U7004
Cover		b	103N2010
Start. capacitor 60 µF	6.3 mm spade connectors	c	117U5014
Cord relief		d	103N1010
Protection screen for PTC		g	103N0476

Test conditions	EN 12900/CECOMAF*	ASHRAE LBP*
Condensing temperature	45°C	43.3°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 compressor	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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