



L37 RS

TIS L-FR3-V5 37RS-A

Technical Information Sheet

REV A

Regulated Speed, Air Cooled

21.01.2023

Performance Data		L37 RS						
Maximum working pressure	bar g	13.0						
Minimum working pressure	bar g	5.0						
Ambient temperature - min/max	°C	1 to 45						
		min. speed	speed 1	speed 2	speed 3	speed 4	max. speed	
5 bar	FAD* (Male rotor speed - rpm)	m ³ /min	1.51 (800)	2.67 (1360)	3.80 (1920)	4.89 (2480)	5.92 (3040)	6.90 (3600)
	Total input power* (P spec. - kW min/m ³)	kW	9.91 (6.56)	14.99 (5.62)	20.25 (5.33)	26.11 (5.34)	32.68 (5.52)	39.79 (5.77)
6 bar	FAD*	m ³ /min	1.50 (800)	2.65 (1360)	3.79 (1920)	4.87 (2480)	5.90 (3040)	6.88 (3600)
	Total input power*	kW	10.86 (7.26)	16.29 (6.14)	21.88 (5.78)	28.08 (5.76)	34.98 (5.93)	42.43 (6.17)
7 bar	FAD*	m ³ /min	1.48 (800)	2.64 (1360)	3.77 (1920)	4.86 (2480)	5.88 (3040)	6.86 (3600)
	Total input power*	kW	11.81 (7.99)	17.59 (6.67)	23.51 (6.24)	30.04 (6.19)	37.27 (6.33)	45.02 (6.56)
7.5 bar	FAD*	m ³ /min	1.47 (800)	2.63 (1360)	3.76 (1920)	4.85 (2480)	5.87 (3040)	6.84 (3600)
	Total input power*	kW	11.99 (8.16)	18.02 (6.86)	24.29 (6.46)	31.03 (6.40)	38.40 (6.54)	46.29 (6.76)
8 bar	FAD*	m ³ /min	1.46 (800)	2.58 (1340)	3.67 (1880)	4.72 (2420)	5.72 (2960)	6.66 (3500)
	Total input power*	kW	12.45 (8.53)	18.44 (7.16)	24.64 (6.71)	31.24 (6.61)	38.41 (6.72)	46.08 (6.92)
9 bar	FAD*	m ³ /min	1.44 (800)	2.49 (1310)	3.53 (1820)	4.53 (2330)	5.47 (2840)	6.36 (3350)
	Total input power*	kW	13.38 (9.30)	19.37 (7.77)	25.52 (7.23)	31.99 (7.06)	38.90 (7.11)	46.25 (7.27)
10 bar	FAD*	m ³ /min	1.41 (800)	2.41 (1280)	3.39 (1760)	4.33 (2240)	5.22 (2720)	6.06 (3200)
	Total input power*	kW	14.30 (10.11)	20.26 (8.41)	26.34 (7.78)	32.65 (7.54)	39.30 (7.52)	46.29 (7.63)
11 bar	FAD*	m ³ /min	1.80 (1000)	2.65 (1410)	3.48 (1820)	4.28 (2230)	5.05 (2640)	5.78 (3060)
	Total input power*	kW	17.83 (9.88)	23.23 (8.76)	28.72 (8.25)	34.35 (8.02)	40.19 (7.97)	46.39 (8.03)
12 bar	FAD*	m ³ /min	2.19 (1200)	2.91 (1550)	3.62 (1900)	4.29 (2250)	4.94 (2600)	5.52 (2930)
	Total input power*	kW	21.66 (9.87)	26.53 (9.11)	31.46 (8.70)	36.48 (8.50)	41.61 (8.43)	46.57 (8.44)
13 bar	FAD*	m ³ /min	2.58 (1400)	3.15 (1680)	3.71 (1960)	4.24 (2240)	4.76 (2520)	5.27 (2810)
	Total input power*	kW	25.77 (9.99)	29.88 (9.48)	34.01 (9.18)	38.18 (8.99)	42.40 (8.91)	46.83 (8.89)
Total input power at no load, fan switched off		kW	2.8					
Male rotor speed		rpm	800 to 3600					
Approx. discharge temperature of air above ambient (at max. power)		°C	7					
Free field noise level ** at 70% load / at 100% load		dB(A)	67 / 70 (50Hz) ; 69 / 72 (60 Hz)					
Electrical Data								
Nominal motor rating		kW	37					
Nominal voltage [tolerance] (Frequency)			380V[+10% -5%]; 400V[±10%]; 460V[±10%] (50, 60Hz)					
Full load current max. at 380V / 400V / 460V		A	86 / 81 / 71					
Starting current (max. % of full load current)		%	100					
Standard drive motor detail			IP55 (IE3) - IEC 60034-2-1 ECA Qualifying					
Drive motor speed min./max.		rpm	800 to 3600					
Fan motor rating		kW	0,73 (50Hz) (IP-54) ; 0,86 (60Hz) (IP-54)					
Suggested cable size at 380V / 400V / 460V (max.30°C / max. 50m / Copper)		mm ²	4G35 / 4G35 / 4G35					
Suggested fuse rating at 380V / 400V / 460V (type gG)		A	100 / 100 / 100					
Cooling Data								
Ventilating fan capacity		m ³ /min	78					
Heat rejected by ventilating fan (max. % of actual input power)		%	95					
Size of cooling air inlet aperture		mm	731 x 639					
Size of cooling air outlet aperture		mm	764 x 740					
Approx. cooling air temperature above ambient (at max. power)		°C	28					
Max. allowable pressure drop in duct at ambient 35°C / 45°C		Pa	100 / 80					
Weights, Dimensions and Capacities Data								
Compressor oil capacity		l	23					
Oil carry over		mg/m ³	< 3					
Compressed air delivery connection (male screwed thread)			EN 10226-1 R 1 1/2 (DIN 2999-R 1 1/2)					
Weight		kg	952					
Package dimensions L x W x H		mm	1722 x 920 x 1659					

* Data measured and stated in accordance with ISO1217 4rd Edition Annex E and at the following conditions:

Air Intake Pressure: 1 bar a / 14.5 psia

Air Intake Temperature: 20°C / 68°F

Humidity: 0% (dry)

** Measured in free field conditions in accordance with the ISO 2151, tolerance ± 3dB(A).

CompAir policy is one of continuous improvement and we therefore reserve the right to alter specifications without prior notice.