

Gardner Denver		L110 RS						TIS L110RS/CE		
		Technical Information Sheet								
		Regulated Speed, Air Cooled, 50Hz						[Eng.Vers.2] 11/18/11		
Performance Data		L110 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)	m³/min	4.83 (650)	8.03 (1027)	11.22 (1418)	14.42 (1826)	17.62 (2250)	20.82 (2690)		
	Total input power* (P spec. - kW min/m³)	kW	29.27 (6.06)	43.84 (5.46)	59.36 (5.29)	76.94 (5.33)	96.73 (5.49)	118.49 (5.69)		
6 bar	FAD*	m³/min	4.80 (650)	7.99 (1028)	11.18 (1419)	14.38 (1826)	17.57 (2250)	20.76 (2690)		
	Total input power*	kW	32.05 (6.68)	47.53 (5.95)	63.94 (5.72)	82.43 (5.73)	103.17 (5.87)	125.90 (6.06)		
7 bar	FAD*	m³/min	4.77 (650)	7.96 (1029)	11.15 (1421)	14.33 (1828)	17.52 (2251)	20.71 (2690)		
	Total input power*	kW	34.76 (7.29)	51.21 (6.44)	68.57 (6.15)	88.02 (6.14)	109.71 (6.26)	133.36 (6.44)		
7.5 bar	FAD*	m³/min	4.76 (650)	7.94 (1030)	11.13 (1423)	14.31 (1831)	17.50 (2253)	20.68 (2690)		
	Total input power*	kW	36.04 (7.58)	53.05 (6.68)	70.94 (6.38)	90.90 (6.35)	113.04 (6.46)	137.11 (6.63)		
8 bar	FAD*	m³/min	4.74 (650)	7.83 (1021)	10.92 (1402)	14.01 (1797)	17.10 (2204)	20.19 (2625)		
	Total input power*	kW	37.26 (7.85)	54.38 (6.94)	72.22 (6.61)	91.94 (6.56)	113.66 (6.65)	137.19 (6.80)		
9 bar	FAD*	m³/min	4.72 (650)	7.62 (1004)	10.53 (1365)	13.43 (1736)	16.34 (2116)	19.24 (2505)		
	Total input power*	kW	39.64 (8.40)	57.01 (7.48)	74.80 (7.11)	94.13 (7.01)	115.10 (7.04)	137.60 (7.15)		
10 bar	FAD*	m³/min	4.69 (650)	7.39 (984)	10.10 (1324)	12.81 (1670)	15.51 (2022)	18.22 (2380)		
	Total input power*	kW	42.22 (9.01)	59.49 (8.05)	76.92 (7.62)	95.67 (7.47)	115.80 (7.46)	137.28 (7.53)		
11 bar	FAD*	m³/min	4.65 (650)	7.19 (967)	9.73 (1288)	12.27 (1614)	14.81 (1945)	17.36 (2280)		
	Total input power*	kW	45.25 (9.74)	62.17 (8.65)	79.13 (8.13)	97.37 (7.93)	116.99 (7.90)	137.96 (7.95)		
12 bar	FAD*	m³/min	5.20 (725)	7.45 (1008)	9.71 (1295)	11.97 (1586)	14.23 (1881)	16.49 (2180)		
	Total input power*	kW	52.35 (10.08)	68.00 (9.12)	83.63 (8.61)	100.45 (8.39)	118.59 (8.34)	138.02 (8.37)		
13 bar	FAD*	m³/min	5.74 (800)	7.71 (1049)	9.69 (1302)	11.67 (1558)	13.64 (1818)	15.62 (2080)		
	Total input power*	kW	59.84 (10.43)	73.98 (9.59)	88.10 (9.09)	103.33 (8.86)	119.79 (8.78)	137.45 (8.80)		
Total input power at no load, fan switched off				kW	12					
Male rotor speed				rpm	650 to 2690					
Approx. discharge temperature of air above ambient (at max. power)				°C	8					
Free field noise level ** at 70% load / at 100% load				dB(A)	72 / 76 (50Hz)					
Electrical Data										
Nominal motor rating				kW	110					
Nominal voltage [tolerance] (Frequency)					380V[+10% -5%]; 400V[±10%] (50Hz)					
Full load current max. at 380V / 400V				A	242 / 230					
Starting current (max. % of full load current)				%	100					
Standard drive motor detail (ECA Qualifying)					IP55					
Drive motor speed min./max.				rpm	650 to 2690					
Fan motor rating				kW	2.5 (50Hz) (IP-54)					
Suggested cable size at 380V / 400V (max.30°C / max. 50m / Copper)				mm²	3x95 PE50 / 3x95 PE50					
Suggested fuse rating at 380V / 400V (type gG)				A	250 / 250					
Cooling Data										
Ventilating fan capacity				m³/min	227 (50Hz)					
Heat rejected by ventilating fan (max. % of actual input power)				%	95					
Size of cooling air inlet aperture				mm	1609 x 666					
Size of cooling air outlet aperture				mm	1374 x 1119					
Approx. cooling air temperature above ambient (at max. power)				°C	32 (50Hz)					
Max. allowable pressure drop in duct at ambient 35°C / 45°C				Pa	80 / 40 (50 Hz)					
Weights, Dimensions and Capacities Data										
Compressor oil capacity				l	54					
Oil carry over				mg/m³	< 3					
Compressed air delivery connection (male screwed thread)					EN 10226-1 R 2 1/2 (DIN 2999-R 2 1/2)					
Weight				kg	2770					
Package dimensions L x W x H				mm	2337 x 1368 x 2039					

* 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).

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