

Gardner Denver			L23 RS - 13 A						TIS L23RS/CE		
			Technical Information Sheet								
			Regulated Speed, Air Cooled, 50Hz						[Eng.Vers.2] 5/30/12		
Performance Data			L23 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	1.18 (1200)	1.77 (1660)	2.37 (2131)	2.96 (2614)	3.55 (3110)	4.15 (3620)			
	Total input power* (P spec. - kW min/m³)	kW	8.51 (7.23)	11.18 (6.31)	14.03 (5.93)	17.11 (5.78)	20.42 (5.75)	23.98 (5.78)			
6 bar	FAD*	m³/min	1.15 (1200)	1.75 (1658)	2.35 (2128)	2.95 (2611)	3.55 (3108)	4.15 (3620)			
	Total input power*	kW	9.23 (8.02)	12.15 (6.95)	15.24 (6.49)	18.53 (6.29)	22.04 (6.21)	25.77 (6.22)			
7 bar	FAD*	m³/min	1.12 (1200)	1.72 (1655)	2.33 (2122)	2.93 (2604)	3.53 (3103)	4.13 (3620)			
	Total input power*	kW	9.97 (8.88)	13.11 (7.60)	16.41 (7.05)	19.91 (6.80)	23.62 (6.69)	27.56 (6.67)			
7.5 bar	FAD*	m³/min	1.11 (1200)	1.71 (1651)	2.31 (2116)	2.92 (2598)	3.52 (3099)	4.12 (3620)			
	Total input power*	kW	10.35 (9.34)	13.57 (7.94)	16.96 (7.33)	20.56 (7.05)	24.38 (6.93)	28.45 (6.91)			
8 bar	FAD*	m³/min	1.09 (1200)	1.67 (1631)	2.25 (2075)	2.83 (2538)	3.41 (3020)	3.99 (3526)			
	Total input power*	kW	10.74 (9.82)	13.91 (8.31)	17.24 (7.65)	20.78 (7.33)	24.55 (7.19)	28.59 (7.16)			
9 bar	FAD*	m³/min	1.06 (1200)	1.60 (1590)	2.13 (1995)	2.67 (2418)	3.20 (2865)	3.74 (3338)			
	Total input power*	kW	11.54 (10.86)	14.55 (9.11)	17.72 (8.31)	21.12 (7.91)	24.77 (7.73)	28.73 (7.68)			
10 bar	FAD*	m³/min	1.03 (1200)	1.52 (1554)	2.02 (1921)	2.51 (2307)	3.00 (2715)	3.50 (3150)			
	Total input power*	kW	12.39 (12.04)	15.22 (9.99)	18.20 (9.02)	21.41 (8.53)	24.89 (8.29)	28.69 (8.20)			
11 bar	FAD*	m³/min	1.14 (1300)	1.57 (1608)	2.00 (1928)	2.43 (2263)	2.87 (2616)	3.30 (2990)			
	Total input power*	kW	14.11 (12.42)	16.65 (10.61)	19.34 (9.66)	22.23 (9.13)	25.35 (8.84)	28.74 (8.71)			
12 bar	FAD*	m³/min	1.24 (1400)	1.61 (1664)	1.99 (1938)	2.36 (2222)	2.73 (2519)	3.10 (2830)			
	Total input power*	kW	15.91 (12.80)	18.14 (11.24)	20.50 (10.32)	23.03 (9.77)	25.74 (9.43)	28.66 (9.25)			
13 bar	FAD*	m³/min	1.35 (1500)	1.66 (1720)	1.97 (1946)	2.27 (2179)	2.58 (2420)	2.89 (2670)			
	Total input power*	kW	17.76 (13.16)	19.66 (11.85)	21.66 (11.01)	23.79 (10.46)	26.05 (10.09)	28.47 (9.84)			
Total input power at no load, fan switched off					kW	2.4					
Male rotor speed					rpm	1500 to 3620					
Approx. discharge temperature of air above ambient (at max. power)					°C	8 (50Hz) ; 10 (60Hz)					
Free field noise level ** at 70% load / at 100% load					dB(A)	68 / 70					
Electrical Data											
Nominal motor rating					kW	22					
Nominal voltage [tolerance] (Frequency)						380V[+10% -5%]; 400V[±10%]; 460V[±10%] (50, 60Hz)					
Full load current max. at 380V / 400V / 460V					A	54 / 51 / 45					
Starting current (max. % of full load current)					%	100					
Standard drive motor detail						IP55 (IE-3) - IEC 60034-2-1 ECA Qualifying					
Drive motor speed min./max.					rpm	1500 to 3620					
Fan motor rating					kW	0,56 (50Hz) (IP-54) ; 0,5 (60Hz) (IP-54)					
Suggested cable size at 380V / 400V / 460V (max.30°C / max. 50m / Copper)					mm²	4G16 / 4G16 / 4G10					
Suggested fuse rating at 380V / 400V / 460V (type gG)					A	63 / 63 / 50					
Cooling Data											
Ventilating fan capacity					m³/min	73 (50Hz) ; 66 (60Hz)					
Heat rejected by ventilating fan (max. % of actual input power)					%	95					
Size of cooling air inlet aperture					mm	595 x 548					
Size of cooling air outlet aperture					mm	888 x 372					
Approx. cooling air temperature above ambient (at max. power)					°C	19 (50Hz) ; 21 (60Hz)					
Max. allowable pressure drop in duct at ambient 35°C / 45°C					Pa	90 / 70 (50Hz) ; 90 / 60 (60Hz)					
Weights, Dimensions and Capacities Data											
Compressor oil capacity					l	15					
Oil carry over					mg/m³	< 3					
Compressed air delivery connection (female screwed thread)						EN 10226-1 R 1 1/4 (DIN 2999-R 1 1/4)					
Weight					kg	681					
Package dimensions L x W x H					mm	1345 x 880 x 1612					

* Data measured and stated in accordance with ISO1217 4rd Edition Annex C & 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.