

Gardner Denver			L18RS						TIS L18RS/CE	
			Technical Information Sheet							
			Regulated Speed, Air Cooled, 50Hz						[Eng.Vers.1] 1/6/2011	
Performance Data			L18 RS - 10 A							
Maximum working pressure			bar g	10.0						
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	1.37 (2100)	1.64 (2477)	1.90 (2857)	2.16 (3241)	2.42 (3627)	2.69 (4016)		
	Total input power* (P spec. - kW min/m³)	kW	8.61 (6.27)	10.06 (6.15)	11.59 (6.11)	13.20 (6.11)	14.88 (6.14)	16.65 (6.20)		
6 bar	FAD*	m³/min	1.36 (2100)	1.62 (2478)	1.88 (2859)	2.15 (3242)	2.41 (3627)	2.67 (4016)		
	Total input power*	kW	9.47 (6.97)	10.99 (6.78)	12.60 (6.68)	14.28 (6.65)	16.04 (6.66)	17.90 (6.69)		
7 bar	FAD*	m³/min	1.34 (2100)	1.61 (2479)	1.87 (2860)	2.13 (3243)	2.40 (3628)	2.66 (4016)		
	Total input power*	kW	10.33 (7.70)	11.92 (7.42)	13.59 (7.27)	15.36 (7.20)	17.21 (7.18)	19.16 (7.20)		
7.5 bar	FAD*	m³/min	1.33 (2100)	1.60 (2479)	1.86 (2860)	2.13 (3243)	2.39 (3628)	2.66 (4016)		
	Total input power*	kW	10.76 (8.08)	12.38 (7.75)	14.09 (7.57)	15.89 (7.48)	17.79 (7.44)	19.79 (7.45)		
8 bar	FAD*	m³/min	1.32 (2100)	1.59 (2479)	1.85 (2860)	2.12 (3243)	2.38 (3629)	2.65 (4016)		
	Total input power*	kW	11.19 (8.46)	12.83 (8.08)	14.58 (7.87)	16.43 (7.75)	18.37 (7.71)	20.42 (7.71)		
9 bar	FAD*	m³/min	1.30 (2100)	1.57 (2480)	1.83 (2861)	2.10 (3244)	2.37 (3629)	2.64 (4016)		
	Total input power*	kW	12.04 (9.26)	13.74 (8.77)	15.56 (8.48)	17.50 (8.32)	19.54 (8.25)	21.71 (8.23)		
10 bar	FAD*	m³/min	1.28 (2100)	1.55 (2481)	1.82 (2864)	2.08 (3247)	2.35 (3631)	2.62 (4016)		
	Total input power*	kW	12.87 (10.07)	14.65 (9.47)	16.56 (9.12)	18.59 (8.92)	20.74 (8.81)	23.02 (8.78)		
Total input power at no load including fan					kW	2.8				
Male rotor speed					rpm	2100 to 4016				
Approx. discharge temperature of air above ambient (at max. power)					°C	12				
Free field noise level ** at 70% load / at 100% load					dB(A)	68 / 73				
Electrical Data										
Nominal motor rating					kW	18.5				
Nominal voltage [tolerance] (Frequency)						380V[+10% -5%]; 400V[±10%]; 460V[±10%] (50, 60Hz)				
Full load current max. at 380V / 400V / 460V					A	53 / 50 / 44				
Starting current (max. % of full load current)					%	100				
Standard drive motor detail (ECA Qualifying)						IP55, IE2				
Drive motor speed min./max.					rpm	1541 to 2945				
Fan motor rating					kW	-				
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	47				
Heat rejected by ventilating fan (max. % of actual input power)					%	95				
Size of cooling air inlet aperture					mm	Ø 360				
Size of cooling air outlet aperture					mm	445 x 714				
Approx. cooling air temperature above ambient (at max. power)					°C	25				
Max. allowable pressure drop in duct at ambient 35°C / 45°C					Pa	30 / 20				
Weights, Dimensions and Capacities Data										
Compressor oil capacity					l	9.5				
Oil carry over					mg/m³	< 3				
Compressed air delivery connection (female screwed thread)						EN 10226-1 Rp 1 (DIN 2999-Rp 1)				
Weight					kg	381				
Package dimensions L x W x H					mm	787 x 698 x 1202				

* 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).

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