



L18 RS - 10 A

TIS L-FR2-V3 18RS-A-50-60Hz

Technical Information Sheet

REV B

Regulated Speed, Air Cooled

03.05.2022

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)	m ³ /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/m ³)	kW	8,39 (6,11)	9,81 (5,99)	11,30 (5,95)	12,87 (5,95)	14,51 (5,99)	16,23 (6,04)
6 bar	FAD*	m ³ /min	1,36 (2100)	1,62 (2478)	1,88 (2859)	2,15 (3242)	2,41 (3627)	2,67 (4016)
	Total input power*	kW	9,23 (6,80)	10,71 (6,61)	12,28 (6,52)	13,92 (6,48)	15,64 (6,49)	17,45 (6,53)
7 bar	FAD*	m ³ /min	1,34 (2100)	1,61 (2479)	1,87 (2860)	2,13 (3243)	2,40 (3628)	2,66 (4016)
	Total input power*	kW	10,07 (7,51)	11,62 (7,24)	13,25 (7,09)	14,97 (7,02)	16,78 (7,00)	18,68 (7,02)
7,5 bar	FAD*	m ³ /min	1,33 (2100)	1,60 (2479)	1,86 (2860)	2,13 (3243)	2,39 (3628)	2,66 (4016)
	Total input power*	kW	10,49 (7,87)	12,07 (7,56)	13,74 (7,38)	15,50 (7,29)	17,35 (7,26)	19,30 (7,27)
8 bar	FAD*	m ³ /min	1,32 (2100)	1,59 (2479)	1,85 (2860)	2,12 (3243)	2,38 (3629)	2,65 (4016)
	Total input power*	kW	10,91 (8,25)	12,51 (7,88)	14,22 (7,67)	16,02 (7,56)	17,91 (7,51)	19,91 (7,52)
9 bar	FAD*	m ³ /min	1,30 (2100)	1,57 (2480)	1,83 (2861)	2,10 (3244)	2,37 (3629)	2,64 (4016)
	Total input power*	kW	11,74 (9,03)	13,40 (8,55)	15,18 (8,27)	17,06 (8,12)	19,05 (8,04)	21,16 (8,03)
10 bar	FAD*	m ³ /min	1,28 (2100)	1,55 (2481)	1,82 (2864)	2,08 (3247)	2,35 (3631)	2,62 (4016)
	Total input power*	kW	12,55 (9,82)	14,29 (9,24)	16,15 (8,90)	18,13 (8,70)	20,22 (8,59)	22,44 (8,56)
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	59 / 56 / 49					
Starting current (max. % of full load current)		%	100					
Standard drive motor detail (ECA Qualifying)			IP55, IE3					
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)		mm ²	4G16 / 4G16 / 4G10					
Suggested fuse rating at 380V / 400V / 460V (type gG)		A	63 / 63 / 50					
Cooling Data								
Ventilating fan capacity		m ³ /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/m ³	< 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 664 x 1194					

* 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.