KAESER Installation Data Sheet - Screw Blower Series: FBS.1 Series: FBS.1 Document Number: TI.BIDS-017 Version: 1.6 Revision Date: 08/22/2022 Revision Date: 08/22/2022						
Package Model FBS 660 SFC (L & M)						
Electrical Data		r	r			
Horsepower	60	75	100	125	150	
Voltage (3ph/60Hz)	460	460	460	460	460	
Short Circuit Current Rating (SCCR) [kA] 460V/3ph/60Hz	50	50	50	50	50	
Package FLA +/- 10%	74.9	90.6	120.3	144.9	186.1	
Disconnect Fuse [Amp]	90	100	150	175	225	
Recommended Wire Size (75°C or higher) [AWG]	1 x 4 x 2	1 x 4 x 1/0	1 x 4 x 2/0	1 x 4 x 3/0	2 x 4 x 1/0	
Maximum Feed Terminal [AWG]			See wiring diagram			
	T	r				
Insulation Class	F	F	F	F	F	
Enclosure Type	TEFC	TEFC	TEFC	TEFC	TEFC	
Motor Rated Current +/- 10%	70	83	111	132	160	
Nominal Efficiency [%]	93.6	93.6	94.1	95.0	95.0	
5. Ground wire size should be equal to conductor size. SFC Operating Modes <i>External Speed Control</i> The speed of the drive motor is controlled via an externally-supplied design. <i>Fixed Speed</i> The speed of the drive motor is controlled by an adjustable value be <i>Pressure Regulation</i> When machine runs in pressure regulation mode, the frequency co speed of the drive motor. The variation in speed determines the air as the unit is maintained within the control range of the machine (V	etween 0% and 100% nverter compensates for delivery of the machine	of machine speed whit	ch is set at the Sigma the set point pressure	Control 2. and the actual pressu	e by changing the	
- · · ·						
Oil System Data	T		1.0			
Drive End Capacity [qt.]	1.0					
Gear End Capacity [qt.]	2.0 G-680					
Oil Type (Synthetic)			9-000			
Working Pressure	I					
FBS 660 L SFC pr	Continued working pressures below 2.2 psig are not permitted Continued working pressures below 4.4 psig are not permitted					
		Constitution of the second star				
FBS 660 M SFC pr		Continued working p	ressures below 4.4 p	sig are not permitted		
FBS 660 M SFC pr Package Connections		,				
FBS 660 M SFC pr Package Connections HP	60	75	100	125	150	
FBS 660 M SFC pr Package Connections HP Width (in.)	60 87 5/8	75 87 5/8	100 87 5/8	125 87 5/8	150 87 5/8	
FBS 660 M SFC pr Package Connections HP	60	75	100	125	150	
FBS 660 M SFC pr Package Connections HP Width (in.)	60 87 5/8	75 87 5/8	100 87 5/8	125 87 5/8	150 87 5/8	
FBS 660 M SFC pr Package Connections HP Width (in.) Depth (in.)	60 87 5/8 76 7/16	75 87 5/8 76 7/16	100 87 5/8 76 7/16	125 87 5/8 76 7/16	150 87 5/8 76 7/16	
FBS 660 M SFC pr Package Connections HP Width (in.) Depth (in.) Height (in.)	60 87 5/8 76 7/16 75 11/16	75 87 5/8 76 7/16 75 11/16	100 87 5/8 76 7/16 75 11/16	125 87 5/8 76 7/16 75 11/16	150 87 5/8 76 7/16 75 11/16	
FBS 660 M SFC pr Package Connections HP Width (in.) Depth (in.) Height (in.) Floor (sq. ft.)	60 87 5/8 76 7/16 75 11/16 46 1/2	75 87 5/8 76 7/16 75 11/16 46 1/2	100 87 5/8 76 7/16 75 11/16 46 1/2	125 87 5/8 76 7/16 75 11/16 46 1/2	150 87 5/8 76 7/16 75 11/16 46 1/2	

KAESER Installation Data Sheet - Screw Blower COMPRESSORS Series: FBS.1 Document Number: TI.BIDS-017 Version: 1.6 Revision Date: 08/22/2022 Revision Date: 08/22/2022				
Package Model FBS 660 SFC (L	& M)			
General Information				
Floating Relay Contacts	Ambient and Intake Conditions			
Contacts:- X12:1 and 2Operation- X12:3 and 4Ready for operation- X12:5 and 6Group Alarm- X12:7 and 8Group Warning	Permissible temperature [°F]* $+32 - +113$ Permissible temperature [°F]* $+5 - +113$ Relative humidity [%] $0 - 80$ Maximum elevation [ft.as]* 3280 *contact Kaeser about deviations in temperature or altitude			
Remote On/Off	External Alarm			
Contacts (not floating): powered 24 VDC -X15: 5 and 6 Function: - from open to closed: Machine switches on - from closed to open: Machine switches off	Contacts (not floating): powered 24 VDC DI: 1.08 Function: - the machine will switch off in the event of this external fault			
Ventilation of Blower Room				
Air Inlet Opening	10.7 sq. ft.			
Cooling Fan Capacity (forced ventilation)	4,000 cfm			
Aax Heat Rejection	78,550 BTU/HR			
 /entilation values based on 2300cfm @ 15 psig ΔP, 150Hp and ambient inlet. Max. r Model shown for reference only Actual duct size may vary with installation 1 Exhaust Fan 2 Ventilation Inlet Air Opening 	com temp. = 113° F and cooling air temp = 100° F. Discharge piping length = 5ft. Recommended machine placement and dimensions: Inches A Left side clearance = 2.4 B Front clearance = 51.2 C Right side clearance = 29.5 D Back clearance = 39.4 E Height clearance = 32.0			
*The foundation must be firm, level and capable of bearing the weight of the machine.				
	It is recommended to extract the exhaust air from the upper third of the room as this is where the heat collects. The room ventilation openings should be arranged that the current of cooling air flowing through the room passes over the blower inlet and exhaust ports and, if possible, should leave no stagnant air in the room. (A thermal short circuit must be avoided, i.e. discharged cooling air must not find its way to the cooling air inlet.) The blower must not be positioned so near to a wall that the inflow of cooling air is obstructed. Pipework should be insulated against heat emission. If the blower station is located in the middle of a large hall its exhaust air can be extracted by means of a duct positioned above the exhaust port (illustrated in broken lines).			