KAESER	
COMPRESSORS	Œ

Installation Data Sheet

Series: 1:1 Direct Drive BSD.4

Document No.: TI-DATA-2020-BSD 40 50 60

Version: 1.3 Revision Date: 04/17/2023

Model	BSD 40	BSD 50	BSD 60
Rated Pressure [psig]	110 125 145 175	110 125 145 175 190 217	110 125 145 175 190 217
I. COOLING DATA			
Cooling System Available [Std., Opt.]	A/C, W/C	A/C, W/C	A/C, W/C
Standard Ambient Temp. Range [°F]	40 - 115	40 - 115	40 - 115
VENTILATION OF COMPRESSOR ROOM			
Air Inlet Opening [sq. ft.] (A/C) Z	8.6	10.8	12.9
Air Inlet Opening [sq. ft.] (W/C) Z	2.2	2.2	2.2
Solution A (forced ventilation with exhaust fan) as shown in service manual			
Cooling Fan Capacity [CFM] (A/C)	6,474	8,240	10,006
Cooling Fan Capacity [CFM] (W/C)	1,001	1,236	1,471
Solution B (exhaust air used for space heating) as shown in service manual			
Internal Cooling Fan Capacity [CFM] (A/C)	4,826	4,826	4,826
Internal Cooling Fan Capacity [CFM] (W/C)	706	706	706
Max. Additional Pressure Drop for Ducts [inch Water Column] (A/C) (W/C)	0.24 / 0.16	0.24 / 0.16	0.24 / 0.16
Exhaust Air Opening Reference Dimensions (L x W) [in] See drawing for actual dimensions. The actual individual du dimension will vary for every installation based on actual length, number and type of bends, accessories e	ıal 28 x 28	28 x 28	28 x 28
Model shown for reference only Actual Duct size may vary with installation			



Solution B Exhaust Duct

Ventilation of Compressor Room

AIR COOLED DATA												
Internal Cooling Fan Capacity [CFM]	4,8	326		4,82	26		4,826					
Approach Temp. [°F]	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.	7.	.2	9 7.2 7.2				12.6	10.	8	9	
Typical Heat Rejected [BTU / HR]	118,	,500		145,0	000		178,500					
Fan Motor [HP], oilcooler/aircooler			1		1			1				
WATER COOLED DATA												
Type of heat exchangers	stainless stee	el, plate-type	stainle	ess steel	l, plate	-type	stainless steel, plate-type					
Internal Cooling Fan Capacity [CFM]			06		706	6		706				
Approach Temp. [°F]	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.	1.	.8		1.8	3		1.8				
Typical Heat Rejected into Cooling Water [BTU / HR]	Based on highest input kW of machine.	108,	,500		134,5	500		171,000				
Heat Rejected into Cooling Air [BTU / HR]		10,0	000		11,40	00		13,500				
Max. outlet temperature [°F]	Discharge temperature limited for non-treated water (to prevent calcification).	12	20		120	0		120				
Temperature differential between inlet water and max. discharge water temperature [°F]		20	50	20			50	20		:	50	
Max. inlet water temperature [°F]	fax. inlet water temperature [°F]		70	104			70	104			70	
Min. cooling water flow [gpm]		11.1	4.8	13.5			5.7	17			3.7	
Pressure drop across compressor package [psi] WITHOUT cooling	g water throttling valve	10.2	1.5	14.5			2.2	21.8			2.9	

Pressure drop across compressor package [psi] WITH cooling water throttling valve

15

21



Installation Data Sheet Series: 1:1 Direct Drive BSD.4

Document No.: TI-DATA-2020-BSD 40 50 60

Version: 1.3 Revision Date: 04/17/2023

Model		2023							
		BSD 40			SSD 50			BSD 60	T T .
Rated Pressure [psignature]					5 175 190 217	110 1	125 /	145 175	190 217
II. ELECTRICAL DATA	Electrical data may vary in accordance with motor	or manufacturer's spe	cifica	tions. Motors a	are EISA compliant.				
DRIVE MOTOR									
Motor HP	40			50					
Insulation Class					F				
Standard Voltage		460V/3ph/60Hz		460V	//3ph/60Hz		ŀz		
Full Load Amps [FLA] @ 208V/3ph/60Hz		103			125				
Full Load Amps [FLA] @ 230V/3ph/60Hz		96			114				
Full Load Amps [FLA] @ 460V/3ph/60Hz		48			57				
Full Load Amps [FLA] @ 575V/3ph/60Hz		39			47			56	
FAN MOTOR (A/C)									
Insulation Class		F			F			F	
Fan Motor [HP], oilcooler aircooler		1			1			1	
Full Load Amps [FLA] @ 208V/3ph/60Hz		3.6			3.6			-	
Full Load Amps [FLA] @ 230V/3ph/60Hz		3.5			3.5		-	-	
Full Load Amps [FLA] @ 460V/3ph/60Hz		1.8			1.8			1.8	
Full Load Amps [FLA] @ 575V/3ph/60Hz		1.4			1.4			1.4	
FAN MOTOR (W/C)									
Insulation Class		F			F			F	
Fan Motor [HP], Single Speed		0.2			0.2			0.2	
Full Load Amps [FLA] @ 208V/3ph/60Hz		-			-			-	
Full Load Amps [FLA] @ 230V/3ph/60Hz	-			-					
Full Load Amps [FLA] @ 460V/3ph/60Hz		0.6			0.6				
Full Load Amps [FLA] @ 575V/3ph/60Hz		CF							
		CF			CF			CF	
TOTAL PACKAGE DATA (A/C)		-							
TOTAL PACKAGE DATA (A/C) Do NOT operate package on any unsymmetrical power supply. Also do I		th		hase star (wye				hree-phase	e star (wye);
TOTAL PACKAGE DATA (A/C) Do NOT operate package on any unsymmetrical power supply. Also do I example, a three-phase (open) delta or three-phase star with non-groun	ded neutral. The machine requires a symmetrical	₹ th	wire;	` •			3	hree-phase	
TOTAL PACKAGE DATA (A/C) Do NOT operate package on any unsymmetrical power supply. Also do I example, a three-phase (open) delta or three-phase star with non-groun three-phase power supply transformer with a WYE configuration output is	ded neutral. The machine requires a symmetrical as shown on the right. In a symmetrical three-phase	th	wire;			"TEN	3	hree-phase	
TOTAL PACKAGE DATA (A/C) Do NOT operate package on any unsymmetrical power supply. Also do I example, a three-phase (open) delta or three-phase star with non-groun three-phase power supply transformer with a WYE configuration output supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same.	ded neutral. The machine requires a symmetrical as shown on the right. In a symmetrical three-phase	th 4-	wire;	` •);	77 TAN	3	hree-phase -wire; rounded n	
TOTAL PACKAGE DATA (A/C) Do NOT operate package on any unsymmetrical power supply. Also do I example, a three-phase (open) delta or three-phase star with non-groun three-phase power supply transformer with a WYE configuration output supply the phase angles and voltages are all the same. Other power sup Continuous Duty [Hours per day]	ded neutral. The machine requires a symmetrical as shown on the right. In a symmetrical three-phase	th 4- gr	wire;	` •	24	nin,	3	hree-phase -wire; rounded n	
TOTAL PACKAGE DATA (A/C) Do NOT operate package on any unsymmetrical power supply. Also do I example, a three-phase (open) delta or three-phase star with non-groun three-phase power supply transformer with a WYE configuration output supply the phase angles and voltages are all the same. Other power sup Continuous Duty [Hours per day] Control Cabinet Class (NEMA)	ded neutral. The machine requires a symmetrical as shown on the right. In a symmetrical three-phase	24 12	wire;	` •	24 12	11 Th	3	hree-phase -wire; rounded n	, ,
TOTAL PACKAGE DATA (A/C) Do NOT operate package on any unsymmetrical power supply. Also do I example, a three-phase (open) delta or three-phase star with non-groun three-phase power supply transformer with a WYE configuration output supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same.	ded neutral. The machine requires a symmetrical as shown on the right. In a symmetrical three-phase	24 12 50	wire;	` •	24 12 50	nt the	3	hree-phase -wire; rounded n	
TOTAL PACKAGE DATA (A/C) Do NOT operate package on any unsymmetrical power supply. Also do I example, a three-phase (open) delta or three-phase star with non-groun three-phase power supply transformer with a WYE configuration output supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same.	ded neutral. The machine requires a symmetrical as shown on the right. In a symmetrical three-phase oplies are not suitable.	24 12 50 30	wire;	` •	24 12 50 30	n min	3	hree-phase -wire; rounded n	
TOTAL PACKAGE DATA (A/C) Do NOT operate package on any unsymmetrical power supply. Also do I example, a three-phase (open) delta or three-phase star with non-groun three-phase power supply transformer with a WYE configuration output supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power sup	ded neutral. The machine requires a symmetrical as shown on the right. In a symmetrical three-phase oplies are not suitable. Field installed fuse required, see below*	24 12 50 30 116	wire;	` •	24 12 50 30 139	nt th	3	hree-phase -wire; rounded n	
TOTAL PACKAGE DATA (A/C) Do NOT operate package on any unsymmetrical power supply. Also do I example, a three-phase (open) delta or three-phase star with non-groun three-phase power supply transformer with a WYE configuration output supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other phase angles and voltages are all the same. Other phase angles and voltages	ded neutral. The machine requires a symmetrical as shown on the right. In a symmetrical three-phase oplies are not suitable. Field installed fuse required, see below*	24 12 50 30 116 108	wire;	` •	24 12 50 30 139 127	nt th	3	hree-phase -wire; irounded n 24 12 50 30	, ,
TOTAL PACKAGE DATA (A/C) Do NOT operate package on any unsymmetrical power supply. Also do I example, a three-phase (open) delta or three-phase star with non-groun three-phase power supply transformer with a WYE configuration output supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other pow	ded neutral. The machine requires a symmetrical as shown on the right. In a symmetrical three-phase oplies are not suitable. Field installed fuse required, see below*	24 12 50 30 116 108 54	wire;	` •	24 12 50 30 139 127 64	nt M	3	24 12 50 30 -	, ,
TOTAL PACKAGE DATA (A/C) Do NOT operate package on any unsymmetrical power supply. Also do I example, a three-phase (open) delta or three-phase star with non-groun three-phase power supply transformer with a WYE configuration output supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply to the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply and the phase angles are all the same. Other power supply and the phase angles are all the same. Other power supply and the phase angles are all the same. Other power supply and the phase angles are all the same. Other power supply and the phase angles are all the same. Other power supply and the phase angles are all the same. Other power supply and the phase angles are all the same. Other power supply and the phase angles are all the same. Other power supply and the p	ded neutral. The machine requires a symmetrical as shown on the right. In a symmetrical three-phase oplies are not suitable. Field installed fuse required, see below*	24 12 50 30 116 108 54 43	wire;	` •	24 12 50 30 1139 127 64 52	Zurthu.	3	hree-phase -wire; irounded n 24 12 50 30	
TOTAL PACKAGE DATA (A/C) Do NOT operate package on any unsymmetrical power supply. Also do I example, a three-phase (open) delta or three-phase star with non-groun three-phase power supply transformer with a WYE configuration output supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply and voltages are all the same supply and voltages are all the same. Other power supply and voltages are all the same supply and voltages are all the same supply and voltages are all the same. Other power supply and voltages are all the same supply and voltages are all the same. Other supply and	ded neutral. The machine requires a symmetrical as shown on the right. In a symmetrical three-phase oplies are not suitable. Field installed fuse required, see below*	24 12 50 30 116 108 54 43 150	wire;	` •	24 12 50 30 139 127 64 52 200	, r,	3	24 12 50 30 -	e star (wye); neutral
TOTAL PACKAGE DATA (A/C) Do NOT operate package on any unsymmetrical power supply. Also do I example, a three-phase (open) delta or three-phase star with non-groun three-phase power supply transformer with a WYE configuration output supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltage same all the same. Other power supply the phase angles and voltage same all the same. Other power supply the phase angles and voltage same all the same. Other power supply the phase angles and voltage same all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply and voltages are all the same share with non-groun three-phase star with non-groun thre	ded neutral. The machine requires a symmetrical as shown on the right. In a symmetrical three-phase oplies are not suitable. Field installed fuse required, see below* Field installed fuse required, see below* *Time delay (dual element) fuse; Class J ≤ 600A (e.g. AJT) / Class L > 600A (e.g. AABQ).	24 12 50 30 116 108 54 43 150 150	wire;	` •	24 12 50 30 139 127 64 52 200 175		3	hree-phase -wire; irounded n 24 12 50 30 - - - 79 64 -	
TOTAL PACKAGE DATA (A/C) Do NOT operate package on any unsymmetrical power supply. Also do I example, a three-phase (open) delta or three-phase star with non-groun three-phase power supply transformer with a WYE configuration output supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltage same all the same. Other power supply the phase angles and voltage same all the same. Other power supply the phase angles and voltage same all the same. Other power supply the phase angles and voltage same all the same. Other power supply the phase angles and voltage same all the same. Other power supply the phase angles and voltage same all the same. Other power supply the phase angles and voltage same all the same. Other power supply the phase angles and voltage same all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply and voltages are all the same that the power supply and voltages are all the same. Other power supply and voltages are all the same that the power supply and voltages are all the same. Other power supply and voltages are all the same that the power supply and voltages are all the same that the power supply and voltages are all the same that the power supply and voltages are all the same. Other power supply and voltages are all the same that the power supply and voltages are all the same. Other power supply and voltages are all the supply and voltages are all the same. Other power supply and v	ded neutral. The machine requires a symmetrical as shown on the right. In a symmetrical three-phase oplies are not suitable. Field installed fuse required, see below* Field installed fuse required, see below* *Time delay (dual element) fuse; Class J ≤ 600A (e.g. AJT) / Class L > 600A (e.g. AABQ). Based on 2020 NEC 240.6, 430.52, and Tables 430.52,	24 12 50 30 116 108 54 43 150 150 80	wire;	` •	24 12 50 30 139 127 64 52 200 175		3	hree-phase -wire; irounded n 24 12 50 30 - - 79 64 - - 110	
TOTAL PACKAGE DATA (A/C) Do NOT operate package on any unsymmetrical power supply. Also do I example, a three-phase (open) delta or three-phase star with non-groun three-phase power supply transformer with a WYE configuration output supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase are all the same. Other power supply the phase are all the same. Other power supply and the phase are all the same that the power supply the phase are all the same. Other power supply and the phase are all the supply the phase are all the supply the phase are all the same. Other power supply the phase are all the supply the phase	ded neutral. The machine requires a symmetrical as shown on the right. In a symmetrical three-phase oplies are not suitable. Field installed fuse required, see below* Field installed fuse required, see below* *Time delay (dual element) fuse; Class J ≤ 600A (e.g. AJT) / Class L > 600A (e.g. AABQ).	24 12 50 30 116 108 54 43 150 150 80 60	wire; cound	` •	24 12 50 30 139 127 64 52 200 175	rutu.	3	hree-phase -wire; irounded n 24 12 50 30 - - - 79 64 -	
TOTAL PACKAGE DATA (A/C) Do NOT operate package on any unsymmetrical power supply. Also do I example, a three-phase (open) delta or three-phase star with non-groun three-phase power supply transformer with a WYE configuration output supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply control Cabinet Class (NEMA) Short Circuit Current Rating (SCCR) [kA] @ 460V/3ph/60Hz Short Circuit Current Rating (SCCR) [kA] @ 575V/3ph/60Hz Package Full Load Amps @ 208V/3ph/60Hz [FLA] Package Full Load Amps @ 230V/3ph/60Hz [FLA] Package Full Load Amps @ 460V/3ph/60Hz [FLA] Package Full Load Amps @ 575V/3ph/60Hz [FLA] Recommended Disconnect Fuse Size [Amps] @ 208V/3ph/60Hz Recommended Disconnect Fuse Size [Amps] @ 460V/3ph/60Hz Recommended Disconnect Fuse Size [Amps] @ 575V/3ph/60Hz Recommended Disconnect Fuse Size [Amps] @ 575V/3ph/60Hz Recommended Disconnect Fuse Size [Amps] @ 575V/3ph/60Hz	ded neutral. The machine requires a symmetrical as shown on the right. In a symmetrical three-phase oplies are not suitable. Field installed fuse required, see below* Field installed fuse required, see below* *Time delay (dual element) fuse; Class J ≤ 600A (e.g. AJT) / Class L > 600A (e.g. A4BQ). Based on 2020 NEC 240.6, 430.52, and Tables 430.52, 430.248, and 430.250 The following multi-strand copper core wires are given	24 12 50 30 116 108 54 43 150 150 80 60 2/0 AWG per phase an	ound	ed neutral	24 12 50 30 139 127 64 52 200 175		3	hree-phase -wire; irounded n 24 12 50 30 - - 79 64 - - 110	
TOTAL PACKAGE DATA (A/C) Do NOT operate package on any unsymmetrical power supply. Also do I example, a three-phase (open) delta or three-phase star with non-groun three-phase power supply transformer with a WYE configuration output supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase angles are all the same. Other power supply the phase and voltages are all the same. Other power supply the phase same. Other power supply the phase and voltages are all the same. Other power supply the phase same and voltages are all the same. Other power supply the phase same. Other power supply the phase same. Other power supply the phase same and voltages are all the same. Other power supply the phase same with a WYE configuration output supply the phase same with a WYE configuration output supply the phase same with a WYE configuration output supply the phase same with a WYE configuration output supply the phase same with a WYE configuration output supply the phase same with a WYE configuration output supply the phase same with a WYE configuration output supply the phase same with a WYE configuration output supply the phase same with a WYE configuration output supply the phase same with a WYE configuration output supply the phase same with a WYE configuration output sup	ded neutral. The machine requires a symmetrical as shown on the right. In a symmetrical three-phase oplies are not suitable. Field installed fuse required, see below* Field installed fuse required, see below* *Time delay (dual element) fuse; Class J ≤ 600A (e.g. AAFQ). Class L > 600A (e.g. AAFQ). Based on 2020 NEC 240.6, 430.52, and Tables 430.52, 430.248, and 430.250 The following multi-strand copper core wires are given according to 2020 NEC 310.14, 310.15, 310.16 and table 310.16 adjusted for 40°C ambient temperature. If other local	24 12 50 30 116 108 54 43 150 150 80 60 2/0 AWG per phase al	ound	ed neutral 4/0 AWG per	24 12 50 30 139 127 64 52 200 175 90	rutu.	3	hree-phase -wire; irounded n 24 12 50 30 - - 79 64 - - 110	
TOTAL PACKAGE DATA (A/C) Do NOT operate package on any unsymmetrical power supply. Also do I example, a three-phase (open) delta or three-phase star with non-groun three-phase power supply transformer with a WYE configuration output supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply the phase angles and voltages are all the same. Other power supply control Cabinet Class (NEMA) Short Circuit Current Rating (SCCR) [kA] @ 460V/3ph/60Hz Short Circuit Current Rating (SCCR) [kA] @ 575V/3ph/60Hz Package Full Load Amps @ 208V/3ph/60Hz [FLA] Package Full Load Amps @ 230V/3ph/60Hz [FLA] Package Full Load Amps @ 460V/3ph/60Hz [FLA] Package Full Load Amps @ 575V/3ph/60Hz [FLA] Recommended Disconnect Fuse Size [Amps] @ 208V/3ph/60Hz Recommended Disconnect Fuse Size [Amps] @ 460V/3ph/60Hz Recommended Disconnect Fuse Size [Amps] @ 575V/3ph/60Hz Recommended Disconnect Fuse Size [Amps] @ 575V/3ph/60Hz Recommended Disconnect Fuse Size [Amps] @ 575V/3ph/60Hz	ded neutral. The machine requires a symmetrical as shown on the right. In a symmetrical three-phase oplies are not suitable. Field installed fuse required, see below* Field installed fuse required, see below* *Time delay (dual element) fuse; Class J ≤ 600A (e.g. AJT) / Class L > 600A (e.g. A4BQ). Based on 2020 NEC 240.6, 430.52, and Tables 430.52, 430.248, and 430.250 The following multi-strand copper core wires are given according to 2020 NEC 310.14, 310.15, 310.16 and table	24 12 50 30 116 108 54 43 150 150 80 60 2/0 AWG per phase ar ground 2/0 AWG per phase ar	wire; round	ed neutral 4/0 AWG per 3/0 AWG per	24 12 50 30 139 127 64 52 200 175 90 70 phase and ground	Luth.	39	hree-phase -wire; irounded n 24 12 50 30 - - 79 64 - - 110	neutral



Installation Data Sheet

Series: 1:1 Direct Drive BSD.4 Document No.: TI-DATA-2020-BSD 40 50 60

Version: 1.3

Davicion	Data:	04/17/2023

Model	BSD 40	BSD 50	BSD 60										
Rated Pressure [psig]	110 125 145 175	110 125 145 175 190 217	110 125 145 175 190 217										
TOTAL PACKAGE DATA (W/C)													
Package Full Load Amps @ 208V/3ph/60Hz [FLA]	112	136	-										
Package Full Load Amps @ 230V/3ph/60Hz [FLA]	105	124	-										
Package Full Load Amps @ 460V/3ph/60Hz [FLA]	53	63	78										
Package Full Load Amps @ 575V/3ph/60Hz [FLA]	43	51	63										
INSTALLATION and MAINTENANCE DATA													
A/C with Super Soundproofing [dB(A)] SOUND PRESSURE LEVEL [Measured in dB(A) according to	72	72	73										
W/C with Super Soundproofing [dB(A)] ISO 2151 using ISO 9614-2]	69	69	70										
A/C Air Discharge [inches NPT or Flange]		1 1/2 NPT											
W/C Air Discharge [inches NPT or Flange]		1 1/2 NPT											
Cooling Water Connection [inches NPT or Flange]	1 NPT												
Power Input Conduit Opening(s) [inches]		2 1/4											
Condensate Drain Connection [NPT]	1/4												
Width [inches]	62 5/8												
Depth [inches]	40 1/2												
Height [inches]	66 7/8 A/C, 68 3/4 W/C												
Floor Space [sq. ft.]	17 3/5												
Weight (A/C) [lb] Weight may vary based on airend selected.	2,072	2,172	2,238										
Weight (W/C) [lb]	2,072	2,172	2,238										
COMPRESSOR FLUID DATA		T											
Fluid Capacity (A/C) [gal]	6.9	6.9	6.9										
Fluid Capacity (W/C) [gal]	5.9	5.9	5.9										
Flow Rate [gal/min]	14.5	14.5	14.5										
Typical Oil Consumption [fl. Oz./100 h]	4.8	5.9	7.2										
Standard Fluid Type	Sigma S-460	Sigma S-460	Sigma S-460										
MAINTENANCE PARTS		6.4139.0											
Air Inlet Filter	6.4139.0 6.1943.0 (2x)												
Filter Mat (optional)													
Filter Mat for Control Cabinet Fluid Filter	7.4519.0 (2x)												
Fluid Separator Kit	6.4493.0												
Maintenance Kit for Optional 5-year warranty	6.3569.0 ANAKBSD3S												
Maintenance Kit for Optional 5-year warranty Maintenance Kit for Optional 5-year warranty, with food-grade lubricant	ANAKBSD3F												
Infanteriance Nit for Optional 3-year warranty, with 1000-grade lubricant		ANAKBSD3F											



Installation Data Sheet

Series: 1:1 Direct Drive BSD.4

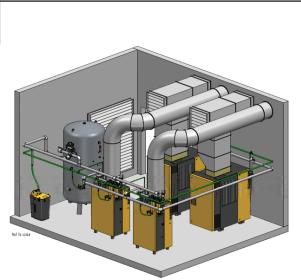
Document No.: TI-DATA-2020-BSD 40 50 60 Version: 1.3 Revision Date: 04/17/2023

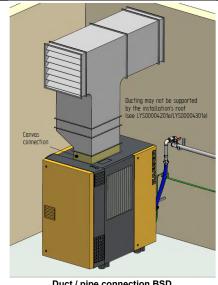
Model	BSD 40			BSD 50					BSD 60							
Rated Pressure [psig]	110	125	145	175	110	125	145	175	190	217	110	125	145	175	190	217

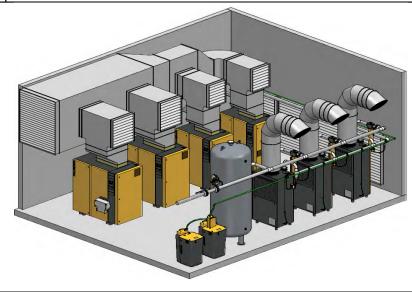
SAMPLE SKETCHES

Sample Installation Planning Examples of room ventilation and ductwork

Please note the upsizing required for compressor exhaust ducts

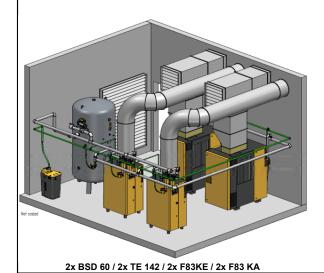






2x BSD 60 / 2x TE 102 / 2x F83 KE/ 2x F83 KA

Duct / pipe connection BSD



Example designs only, not for construction purposes.