

Catalog

SWING DRIVE UNIT



SL

series

22 OCT 2018 REV. A

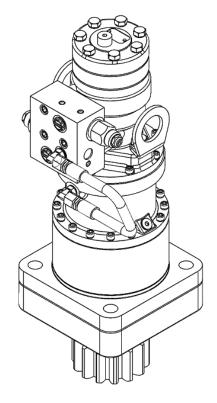


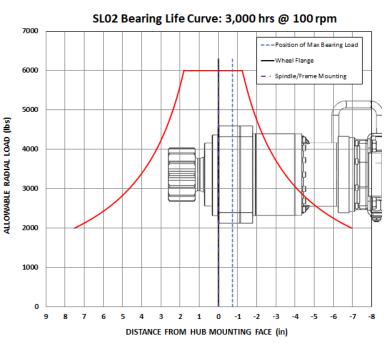


SL02 Swing Drive Single Reduction, SAE Input

		SL02 Swing Driv	e Single R	eduction: SAI	E Input	
			in-lbf	845	Nm	
Max. intermitte	Max. intermittent torque 15000			1690	Nm	
Max. input spe	eed		RPM			
			lbs	30.2	kg	
Approximate oil capacity 27.5 fl oz					L	
			Feature Cl	nart		
Feature		Description			Code	Sample
GEAR RATIO	6.2			06	SL02 06	
	Motor Pilot	Motor Mount	Spindle Pilot	Spindle Mount		
INPUT	Ф3.25"	2x1/2"-13 UNC-2B ON Ф106.4(Ф4.19") B.C.	T HOC	Hount	AA	SL0206 AA
	Teeth		Pitch			
MOTOR COUPLING	15		16/32		15	SL0206AA 15
	Gear Teeth		D.P.(Moudle)			
OUTPUT	14 17		4.23(6.0) 5(7)		G4 G5	SL0206AA15 G4
	₩heel Pilot Dia.	Flange Thk.	Bolt Pattern			
HUB	Ф5.91"	11(0.433)	4xΦ0.748 on Φ5.48 B.C.		HS	SL0206AA15G4 HS
	Size & Pitch		Stud Length ³⁾			
STUDS	-		-		NS	SL0206AA15G4HS NS
DD F 125	in-lbf		Nm			
BRAKE	1860		210			
RATING		1860		210	18	SL0206AA15G4HSNS- 18

 $^{^{9}}$ Continuous unit rating is dependent on life requirements, duty cycle and ambient surroundings affecting heat dissipation. Customer testing for specific applications is strongly recommended.





Note: These bearing curves are supplied for design purposes only relating to radial load. They illustrate the importance of maintaining load properly over the bearing center.

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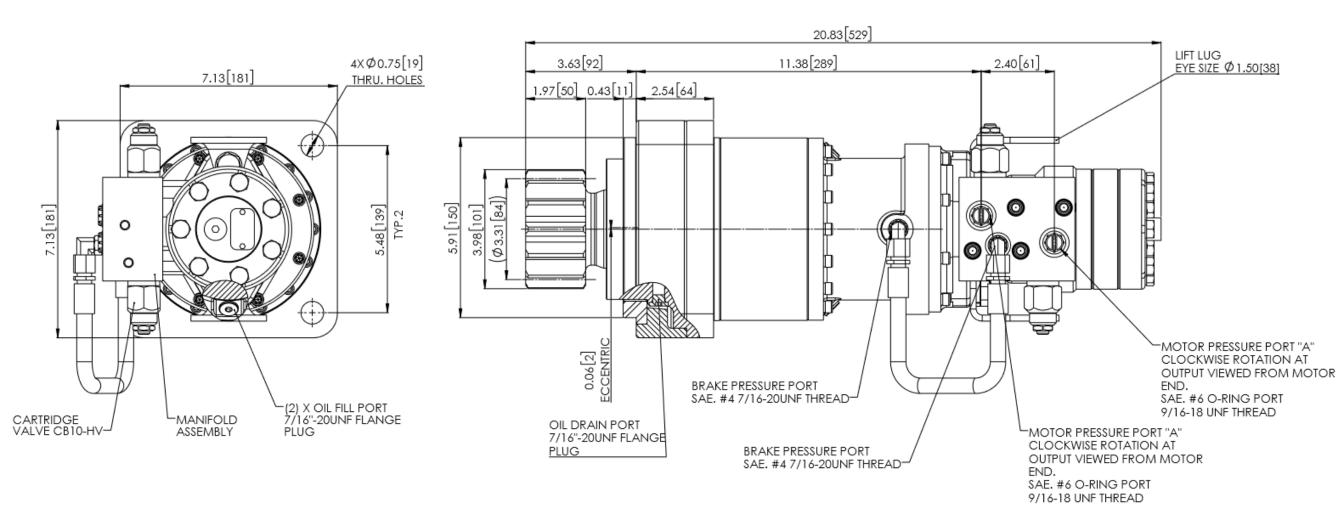
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²⁾ O-rings for motor/brake port interface not included.

 $^{^{9}}$ Length under stud head to end of thread equals usable stud length plus housing flange thickness



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SL06 Swing Drive Double Reduction, SAE Input

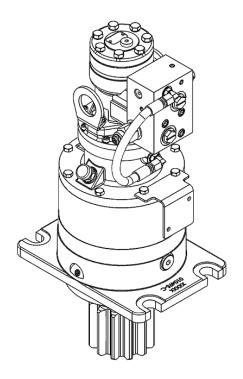
	SI	.06 Swing Drive	Double l	Reduction:	SAE Inp	ut	
Max. Continuous torque ⁴ 30000			in-lbf	3390	Nm .		
_		60000	in-lbf	6780	Nm .		
			RPM				
Approximate	weight	139	lbs	F 63	kg .		
Approximate) L		
		F	eature C	hart			
Feature		Descriptio			Code	Sample	
		25.53	25				
GEAR		33.76			34		
RATIO						SL0634	
					†·····		
	Motor Pilot	Motor Mount	Spindle	Spindle			
	motor Friot	motor mount	Pilot	Mount	^^	SL0634 AA	
	Ф3.25"	2x1/2"-13 UNC-2B on					
SAE INPUT	\$3.25	Ф4.13") B.C.					
		2X M12X1.75 on					
	Ф3.25"	ø4.19" B.C.	-		A4		
		l Feeth		Pitch	 		
MOTOR	6				6B	SL0634AA 6B	
COUPLING			6.35(0.25") 16/32			3L0034AA 6D	
	15 Gear Teeth		Diameter Pitch		15		
			4		G4		
ООТРОТ	22 12		3.5		G6	SL0634AA6B G4	
001701	17		3.175		GA	3200347700044	
	18		4,233		G8		
			4.200				
	Wheel Pilot Flange Thk.		Bolt Pattern				
HUB	Ф7.09"	0.98"	4x R0.468") on 5"x 10"		HR	SL0634AA6BG4 HR	
	41.00	0.00			ł''''		
	Size & Pitch		Stud Length ³¹				
STUDS		-	-		MS	SL0634AA6BG4HR MS	
					t		
	ia-lbf		N=				
	1550		175		15		
BRAKE	1860		210		18	SL0634AA6BG4HRNS-18	
RATING	2800		316		28		
	4000		452		40		
	Piolt		Offset				
	7.05"		0.06"		E1		
Eccentirc	7.05"		0.125"		E2	SL0634AA6BG4HRNS-18E1	
Ring	7.05"		0.09"		E3		
		E 7E	0.06"		t		

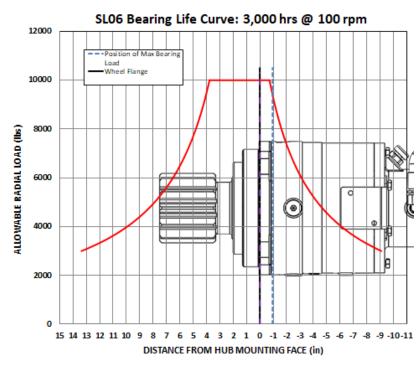
¹¹ Continuous unit rating is dependent on life requirements, duty cycle and ambient surroundings affecting heat dissipation. Customer testing for specific applications is strongly recommended.

0.06"

E4

5.75





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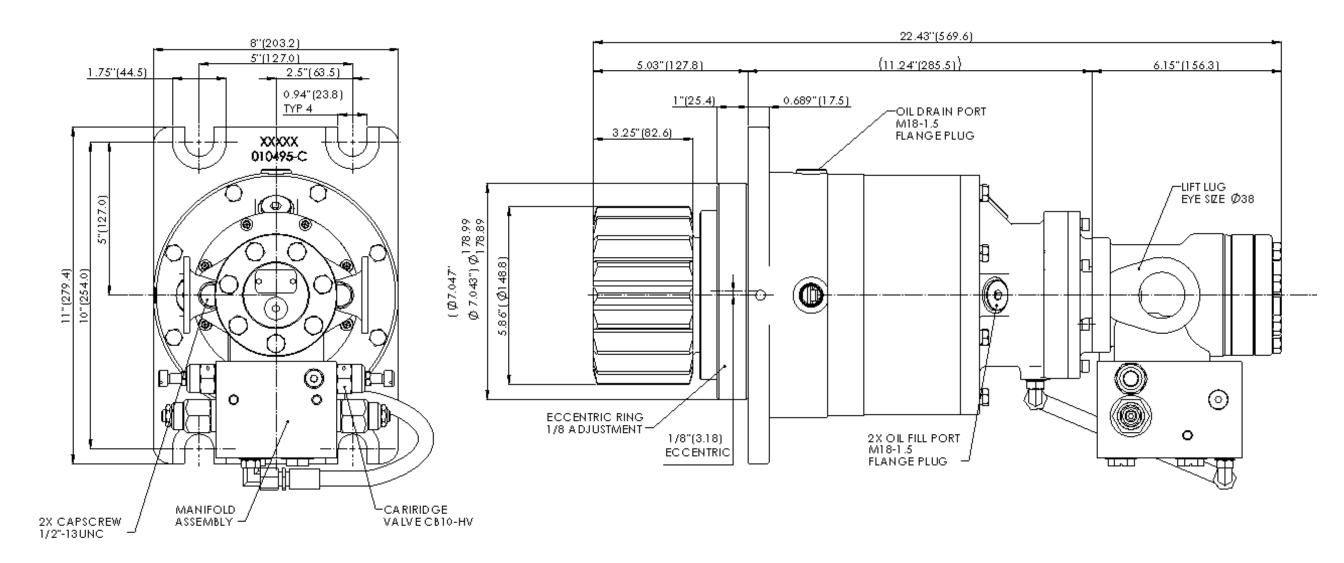
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^{2]} O-rings for motor/brake port interface not included

³¹ Length under stud head to end of thread equals usable stud length plus housing flange thickness



SL06 Swing Drive Double Reduction, SAE Input



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SL12 Swing Drive Double Reduction, SAE Input

	SL	12 Swing Drive				
Max. Continuo			50,000 in-lbf 5,650			
Max. intermitte	•	100,000		11,299	Nm	
Max. input spe			5,000 RPM			
Approximate w		176			kg	
Approximate oil capacity 50 fl oz 1.5 L						
Feature			eature Cha	rt	Code	CI-
reature		Description 36.00	Code 36	Sample		
		36.00			36	
					·····	
					 	
					 	
GEAR RATIO					·····	SL1236
					·····	
					·····	
					·····	
	Motor Pilot	Motor Mount	Spindle	Spindle		
	Motor Pilot	Motor Mount	Pilot	Mount		
		2x1/2"-13 UNC-2B				
SAE INPUT	¢3.25"	ON	-	-	AA	SL1236 AA
SAL IIII OT		4.19" B.C.				OLIZOOAA
		1			1	
	Τe	Pi	Pitch			
MOTOR	15T		16/32		15	SL1236AA15
COUPLING						
	Gear Teeth		Diameter Pitch			
OUTDUT	22		4		G4	01.40004.44504
OUTPUT			†		!·····	SL1236AA15 G4
	Wheel Pilot Dia.	Flange Thk.	Bolt Pattern			
HUB	10.63"	0.77"	8x 0.61"on ¢12.375" B.C.		HS SL1236AA15G4	SL1236AA15G4HS
		<u></u>			[
	0:	D:4 L		- 41	 	

Stud Length³⁾

Nm

175

NS

15

SL1236AA15G4HSNS

SL1236AA15G4HSNS-15

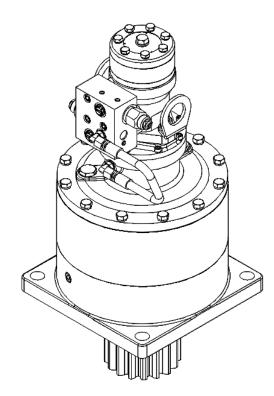
STUDS

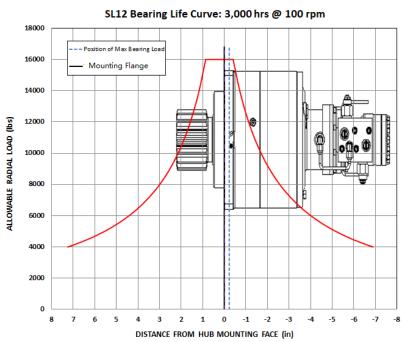
BRAKE RATING

Size & Pitch

in-lbf

1550





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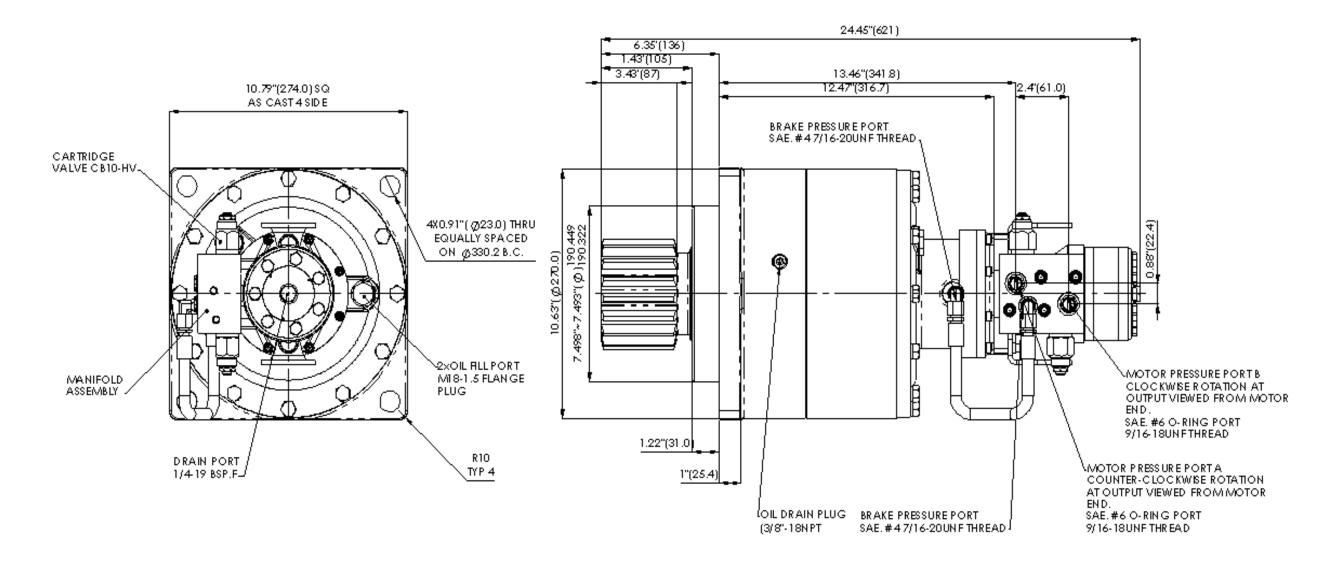
Ontinuous unit rating is dependent on life requirements, duty cycle and ambient surroundings affecting heat dissipation. Customer testing for specific applications is strongly recommended.

O-rings for motor/brake port interface not included.

³¹ Length under stud head to end of thread equals usable stud length plus housing flange thickness.



SL12 Swing Drive Double Reduction, SAE Input



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Appendix: Application Instruction

To adjust life for loads and speeds other than shown on the curve

R = Allowable resultant load for a given location from the mounting flange R' = Anticipated load at location from mounting flange SF = Speed factor from table

Speed	Factors	Bearing Life		
Output	Speed	Life Factor		
(RPM)	SF	(LF)	Hours	
5	2.456	0.584	500	
10	1.944	0.719	1000	
20	1.620	0.812	1500	
30	1.435	0.886	2000	
40	1.316	0.947	2500	
50	1.231	1.000	3000	
60	1.165	1.047	3500	
70	1.113	1.090	4000	
80	1.069	1.130	4500	
90	1.032	1.116	5000	
100	1.000	1.231	6000	
200	0.812	1.289	7000	
300	0.719	1.342	8000	
400	0.659	1.390	9000	
500	0.617	1.435	10000	

- 1) Continuous unit rating is dependent on life requirements, duty cycle and ambient surroundings affecting heat dissipation. Customer testing for specific applications is strongly recommended.
- 2) O-rings for motor/brake port interface not included
- 3) Length under stud head to end of thread equals usable stud length plus housing flange thickness

CAUTION: The same torsional load parameters used in calculating the driving mode must be used in the braking mode!

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GOMNI **GEAR*** designs, manufactures and distributes enclosed gear drives utilizing straight bevel, spur, spiral bevel, helical and worm gearing.

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