PRODUCT INFORMATION PACKET

Model No: 193304.60 Catalog No: 193304.60 LEESON® PASSPORT 4 HP General Purpose, 3 phase, 1800 RPM, 230/460 V, 100L Frame, TEFC



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LEESON

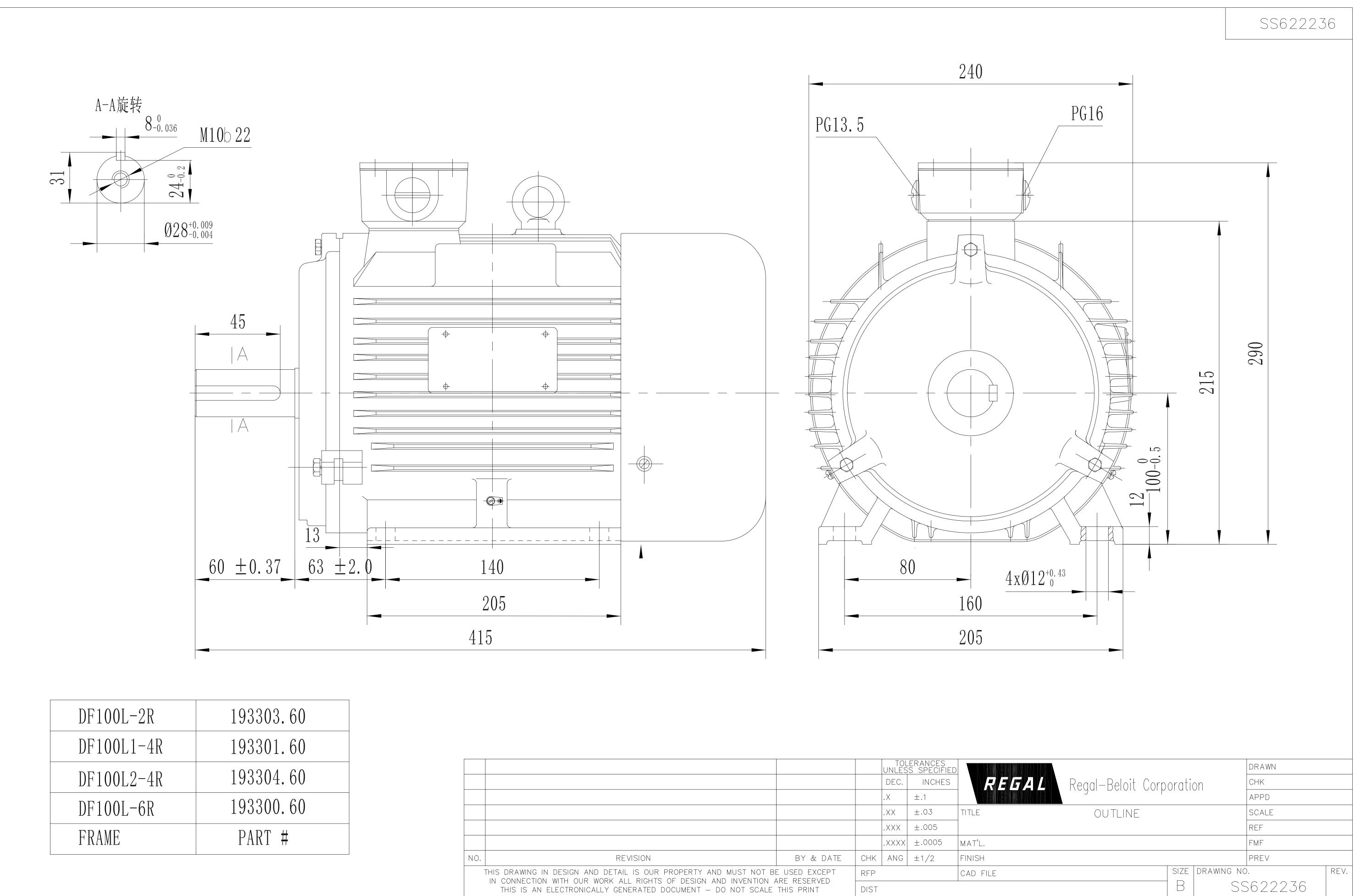
Nameplate Specifications

Phase	3	Output HP	4 & 3 Hp
Output KW	3.0 & 2.2 kW	Voltage	230/460 & 200/400 V
Speed	1760 & 1465 rpm	Service Factor	1.15 & 1.15
Frame	100L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	89.5 & 88.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	10/5 & 9.2/4.6 A	Power Factor	81.5
Duty	Continuous	Insulation Class	F
Design Code	В	KVA Code	J
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	2.42 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	IEC	Overall Length	16.33 in
Shaft Diameter	1.125 in	Shaft Extension	2.36 in
Assembly/Box Mounting	F3	Inverter Load	CONSTANT 10:1
Connection Drawing	005465.01	Outline Drawing	SS622236

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DF100L-2R	193303.60
DF100L1-4R	193301.60
DF100L2-4R	193304.60
DF100L-6R	193300.60
FRAME	PART #

TOLERANCES UNLESS SPECIFIED DEC. INCHES Image: Section of the section of	
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									005	6465–	01
							IEC N	IARK	INGS		
					LOV	V VOLTA	AGE		HIGH VOLTAGE		Ξ
U1(T1) U5(T7)					U	2V2 W2		U2	U5 V2	2 V5 W2	2 W5
					W2	U2	(12)		N2	U2 (V2
										VI (W1
					U1 _{U5} L1V	1 _{V5} L2W	V1W5L3	Ú1	L1 V	1 L2 W	I L3
					LINE VOLTAGE	L1	L2	L3		JOIN	
V2(T5)					TERMINAL	U1	V1	W1	W2	U2	V2
					LOW	U1,U5	V1,V5	W1,W5		U2,V2,W2	
U2(T4)					HIGH	U1	V1	W1	U2,U5	V2,V5	W2,W5
	V/1	$(\pm \alpha)$				[NEMA		RKIN		
W2(T6)	V I	(T2)			LOV	V VOLTA	AGE		HIGH	voltage	Ξ
						T4 T5 T6		T4	T7 T5	Т8 Т6 	6 Т9
W5(T9)	V5(T8	3)			(W2)	<u>U</u> 2	\lambda 2	\mathbb{Z}		U2 ·	V2
W1(T3)							W1			V1	(W1)
					L1 T7 T1	L2 T8 T2	L3 T9 T	3 L1	T1 L2	T2 L3	тз 3 тз
REF. DECAL (IEC) 080644					LINE VOLTAGE	L1	L2	L3		JOIN	
REF. DECAL (NEMA) 080446					TERMINAL	U1	V1	W1	W2	U2	V2
					LOW	T1, T7	T2, T8	тз, т9		T4, T5, T6	
					HIGH	T1	T2	T3	T4, T7	T5, T8	т6, т9
			LERANCES SS_SPECIFIED			ELECTR				N MGM 12	/3/02
		DEC.			eson		MOTOR DRIVE		CHK		
		.X .XX	±.1 ±.01	TITLE				ວ	APPD SCALE	: 1=	1
		 	±.005		EXTERNAL WIF			MBIOC		005377	
01 NEMA LV CONNECTION WAS INCORRECT	RLW 8/4/03			MAT'L.	IEC/NEMA		,		FMF		-
NO. REVISION	BY & DATE		±1/2'	FINISH	THERMAL TR				PREV		
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1051 CHEYENNE AVE. GRAFTON, WI 53024 PH. 262-377-8810

CATALOG #: 193304.60

CONN. DIAGRAM: 005465.01

MOUNTING: F3

OUTLINE: SS622236 **WINDING #:** T06804015 3

TYPICAL MOTOR PERFORMANCE DATA

НР	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
4&3	2.98&2.24	1800	1760&1465	100L	TEFC	J	В

Ы	l Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&200/400	10/5&9.2/4.6	LINE OR INVERTER	CONTINUOUS	F5	1.15/1.15	40

FULL LOAD EFF:	89.5&88.5	3/4 LOAD EFF:	90.2	1/2 LOAD EFF:	89.5	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	81.5&78	3/4 LOAD PF:	76.5	1/2 LOAD PF:	65.5	87.5	SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
11.9 LB-FT	80 / 40	26.2 LB-FT 220 %	40.5 LB-FT 340 %	57

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
55 dBA	65 dBA	- LB-FT^2	- LB-FT^2	15 SEC.	2	- LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEAR	RINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	FRAME	
DE	ODE	GREASE	SHAFT TYPE SPECIAL DE		SPECIAL ODE	MATERIAL	MATERIAL	
BALL	BALL	POLYREX EM	STANDARD IEC	NONE	NONE		CAST IRON	
6206	6205	POLIKEX EM	STANDARD IEC	NONE	NONE	AISI 1045 (C-240)	CAST IRON	

	THERMO-PROTE	HERMO-PROTECTORS THERMISTORS CONTROL SPACE HEA					
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	THERMISTORS	CONTROL	SPACE P	IEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NONE	VOLTS
*				INVERTER TORQUE: INV. HP SPEED RANG		Г 10:1	
Ν				ENCODER: NONE			
0				NONE NONE NONE	PPR		
т				BRAKE: NONE	NONE		
_				NONE P/N NO	NE		
E				NONE NONE			
S				NONE FT-LB NO	DNE V	NO BRAKE	Hz

Uncontrolled Copy

Date	1/17	/2018		Data S	lieet			193304.60			
Date		1/17/2018						193304.60			
					Load Data	ß		Data	@ 460	v	
bad	0%	25%	50%	75%	100%	115%	125%	LR			
urrent (Amps)	2.30	2.50	3.2	4.1	5.0	5.8	6.3	40.0		_	
que (ft-lb)	0.00	2.90	5.9	8.9	11.9	13.8	15.0	26.2	_	-	
M iciency (%)	1800	1790 84.0	1780 89.5	1770 90.2	1760 89.5	1,750 88.5	1750 88.5	0		-	
F. (%)	6.0	43.5	65.5	76.5	81.5	83.5	84.5	41.5		-	
		Motor Speed Da	ata			1					
	LR	Pull-Up	BD	Rated	Idle						
eed (RPM)	0	750	1650	1760	1800			Information Block			
rrent (Amps)	40.0	38.0	24.0	5.0	2.30	HP		4.0			
que (ft-lb)	26.2	25.0	40.5	11.9	0.00	Sync. RPM		1800			
						Frame		100			
	Efficiency (%)	— P.F. (%)	— c	Current (Amps)		Enclosure		TEFC			
100.0					7.0	Construction		TFC			
						Voltage		230/460#200/400	V		
						Frequency		60	Hz		
90.0					6.0	Design		В			
						LR Code letter		J			
80.0			/		5.0	Service Factor Temp Rise @		1.15 57	°C		
					А	Duty	-	CONT	0		
		//			40 P	Ambient		40	°C		
70.0		///			4.0 P	Elevation		1,000	feet		
		/				Rotor/Shaft wk	2	0.00	Lb-Ft ²		
60.0					3.0	Ref Wdg		T06804015 NONE			
	$\boldsymbol{/}$				-	Sound Pressur	re @1M	55	dBA		
					-	VFD Rating		CONSTANT 10):1		
50.0					2.0						
					-			66600			
					_	Outline Dwg		SS622			
40.0					- 1.0	Conn. Diag Additional Spe	cifications:	00546			
40.0					1.0	Conn. Diag Additional Spe 0	cifications:				
						Conn. Diag		00546			
30.0	6 40%	60% 80%	100%	120% 1	0.0	Conn. Diag Additional Spect	EQU	00546 JIV CKT (OHMS / PHASE)	5.01		
	40%	60% 80% LOAD	100%	120% 1		Conn. Diag Additional Spe 0		00546			
30.0 0% 20%	40%		100%	Speed -1	0.0	Conn. Diag Additional Species 0 0 0 R1 0.0000	EQU R2	00546 JIV CKT (OHMS / PHASE) X1	5.01 X2 0.0000		
30.0	40%			Speed -1	0.0	Conn. Diag Additional Species 0 0 R1 0.0000	EQU R2	00546 JIV CKT (OHMS / PHASE) X1	5.01 X2		
45.0	5 40%			Speed -1	0.0	Conn. Diag Additional Species 0 0 R1 0.0000	EQU R2	00546 JIV CKT (OHMS / PHASE) X1	5.01 X2 0.0000 45.0		
30.0 0% 20%	5 40%			Speed -1	0.0	Conn. Diag Additional Species 0 0 R1 0.0000	EQU R2	00546 JIV CKT (OHMS / PHASE) X1	5.01 X2 0.0000		
30.0 0% 209 45.0 40.0	5 40%			Speed -1	0.0	Conn. Diag Additional Species 0 0 R1 0.0000	EQU R2	00546 JIV CKT (OHMS / PHASE) X1	5.01 X2 0.0000 45.0 40.0		
30.0 0% 20%	40%			Speed -1	0.0	Conn. Diag Additional Species 0 0 R1 0.0000	EQU R2	00546 JIV CKT (OHMS / PHASE) X1	5.01 X2 0.0000 45.0		
30.0 0% 209 45.0 40.0 35.0	6 40%			Speed -1	0.0	Conn. Diag Additional Species 0 0 R1 0.0000	EQU R2	00546 JIV CKT (OHMS / PHASE) X1	5.01 X2 0.0000 45.0 40.0 35.0		
30.0 0% 209 45.0 40.0	6 40%			Speed -1	0.0	Conn. Diag Additional Species 0 0 R1 0.0000	EQU R2	00546 JIV CKT (OHMS / PHASE) X1	5.01 X2 0.0000 45.0 40.0		
30.0 0% 209	6 40%			Speed -1	0.0	Conn. Diag Additional Species 0 0 R1 0.0000	EQU R2	00546 JIV CKT (OHMS / PHASE) X1	5.01 X2 0.0000 45.0 40.0 35.0 30.0	0.0	
30.0 0% 209				Speed -1	0.0	Conn. Diag Additional Species 0 0 R1 0.0000	EQU R2	00546 JIV CKT (OHMS / PHASE) X1	5.01 X2 0.0000 45.0 40.0 35.0	0.0	
30.0 0% 209 45.0 40.0 35.0 30.0 T 0 25.0 R Q				Speed -1	0.0	Conn. Diag Additional Species 0 0 R1 0.0000	EQU R2	00546 JIV CKT (OHMS / PHASE) X1	5.01 X2 0.0000 45.0 40.0 35.0 30.0 25.0	0.0	
30.0 0% 209 45.0 40.0 35.0 30.0 T 0 25.0 R Q U 20.0				Speed -1	0.0	Conn. Diag Additional Species 0 0 R1 0.0000	EQU R2	00546 JIV CKT (OHMS / PHASE) X1	5.01 X2 0.0000 45.0 40.0 35.0 30.0	0.0	
30.0 0% 209 45.0 40.0 35.0 30.0 T 0 25.0 R Q				Speed -1	0.0	Conn. Diag Additional Species 0 0 R1 0.0000	EQU R2	00546 JIV CKT (OHMS / PHASE) X1	5.01 X2 0.0000 45.0 40.0 35.0 30.0 25.0	M P	
30.0 0% 209 45.0 40.0 35.0 30.0 T 0 25.0 R Q U 20.0				Speed -1	0.0	Conn. Diag Additional Species 0 0 R1 0.0000	EQU R2	00546 JIV CKT (OHMS / PHASE) X1	5.01 X2 0.0000 45.0 40.0 35.0 30.0 25.0	0.0	
30.0 0% 209 45.0 40.0 35.0 30.0 T 0 25.0 R Q U 20.0 E				Speed -1	0.0	Conn. Diag Additional Species 0 0 R1 0.0000	EQU R2	00546 JIV CKT (OHMS / PHASE) X1	5.01 X2 0.0000 45.0 40.0 35.0 30.0 25.0 20.0	0.0	
30.0 0% 209 45.0 40.0 35.0 30.0 T 0 25.0 R Q U 20.0 E				Speed -1	0.0	Conn. Diag Additional Species 0 0 R1 0.0000	EQU R2	00546 JIV CKT (OHMS / PHASE) X1	5.01 X2 0.0000 45.0 40.0 35.0 30.0 25.0 20.0	0.0	
30.0 0% 209 45.0 40.0 35.0 30.0 T 0 25.0 R Q U 20.0 E 15.0				Speed -1	0.0	Conn. Diag Additional Species 0 0 R1 0.0000	EQU R2	00546 JIV CKT (OHMS / PHASE) X1	5.01 X2 0.0000 45.0 40.0 35.0 30.0 25.0 20.0 15.0	0.0	
30.0 0% 209 45.0 40.0 35.0 30.0 T 0 25.0 R Q U 20.0 E 15.0				Speed -1	0.0	Conn. Diag Additional Species 0 0 R1 0.0000	EQU R2	00546 JIV CKT (OHMS / PHASE) X1	5.01 X2 0.0000 45.0 40.0 35.0 30.0 25.0 20.0 15.0	0.0 A M P	
30.0 0% 209 45.0 40.0 35.0 30.0 T 0 25.0 R Q U 20.0 E 15.0 10.0				Speed -1	0.0	Conn. Diag Additional Species 0 0 R1 0.0000	EQU R2	00546 JIV CKT (OHMS / PHASE) X1	5.01 X2 0.0000 45.0 40.0 35.0 30.0 25.0 20.0 15.0 10.0	0.0	
30.0 0% 209 45.0 40.0 35.0 30.0 T 0 25.0 R Q U 20.0 E 15.0 10.0				Speed -1	0.0	Conn. Diag Additional Species 0 0 R1 0.0000	EQU R2	00546 JIV CKT (OHMS / PHASE) X1	5.01 X2 0.0000 45.0 40.0 35.0 30.0 25.0 20.0 15.0 10.0	0.0 A M P	