PRODUCT INFORMATION PACKET



Model No: 199737.00 Catalog No: 199737.00 Ultimate e[™] General Purpose Motor, 5 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM, 184TC Frame, DP



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LEESON

Nameplate Specifications

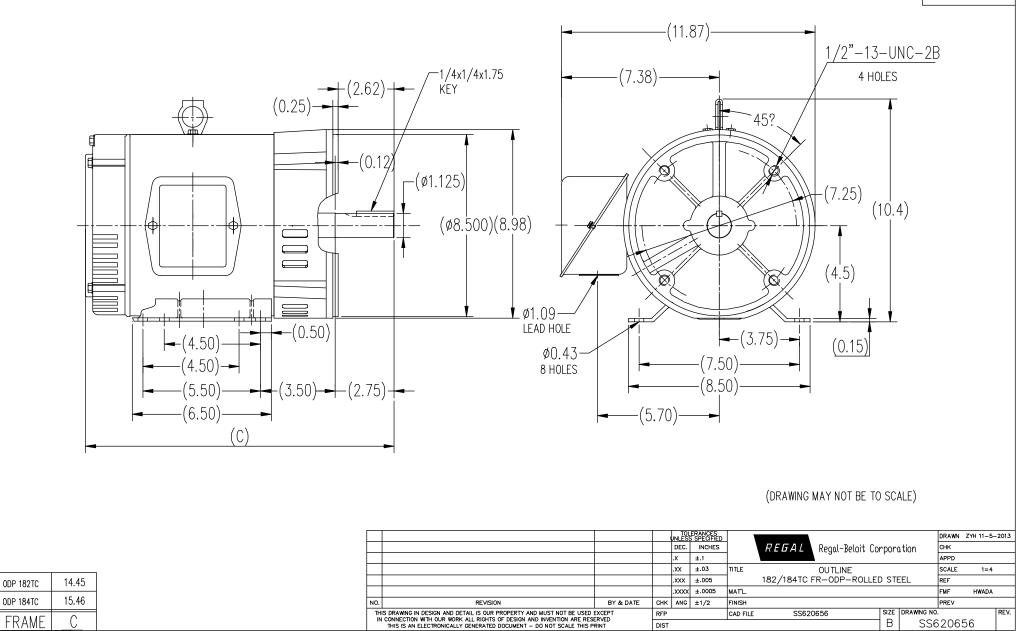
Phase	3	Output HP	5 & 3 Hp
Output KW	3.7 & 2.2 kW	Voltage	230/460 & 190/380 V
Speed	1755 & 1468 rpm	Service Factor	1.15 & 1.15
Frame	184TC	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	89.5 & 89.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	12.8/6.4 & 9.6/4.8 A	Power Factor	82
Duty	Continuous	Insulation Class	F
Design Code	В	KVA Code	К
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Ν
CE	Y	IP Code	22
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	2.25 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	т	Overall Length	15.46 in
Frame Length	6.73 in	Shaft Diameter	1.125 in
Shaft Extension	2.75 in	Assembly/Box Mounting	F1 ONLY
Inverter Load	VARIABLE 10:1		
Connection Drawing	EE7308LE	Outline Drawing	SS620656-184TC

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SS620656



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Date:	1/30	/2018		Data S	neet			199737.00)	
		LEESON					100/07/00			
				Moto	r Load Data	®		Dat	a@ 460	v
ad	0%	25%	50%	75%	100%	115%	125%	LR		
irrent (Amps)	2.80	3.2	4.0	5.2	6.2	6.9	7.8	46.0		_
rque (ft-lb)	0.00	3.7	7.4	11.2	15.1	17.4	19.0	39.0		_
PM	1800	1790	1780	1755	1740	1,732	1725	0		_
ficiency (%) F. (%)	6.0	86.5 45.0	89.5 66.0	90.2 77.0	89.5 85.0	88.5 86.0	87.5 87.0	46.0		-
. (70)		Motor Speed D		11.0	00.0	00.0	07.0	40.0		
	LR	Pull-Up	BD	Rated	Idle					
eed (RPM)	0	750	1450	1740	1800			nformation Block		
irrent (Amps)	46.0	53.0	32.0	6.2	2.80	HP		5.0		
que (ft-lb)	39.0	38.0	52.0	15.1	0.00	Sync. RPM		1800		
	8	11				Frame		184		
E	fficiency (%)	— P.F. (%)		Current (Amps)		Enclosure		DP		
100.0					0.0	Construction		TDB		
100.0					9.0	Voltage		230/460#190/380	V	
						Frequency		60	Hz	
90.0					8.0	Design		В		
						LR Code letter		J		
					7.0	Service Factor		1.15		
80.0						Temp Rise @ I		50	°C	
					6.0 A	Duty		CONT	~	
					M	Ambient		40	°C	
70.0					5.0 P	Elevation		1,000	feet	
					5	Rotor/Shaft wk	2	0.50	Lb-Ft ²	
60.0					4.0	Ref Wdg		CHT18440008 NONE		
80.0						Sound Pressur	e @ 1M	67	dBA	
_					3.0					
						VED Rating				
50.0						VFD Rating		VARIABLE 1	0:1	
50.0					2.0	Outline Dwg		SS62	20656	
	/				2.0	Outline Dwg Conn. Diag	- 11 ¹ 1 ¹	SS62		
40.0					- 2.0	Outline Dwg	cifications:	SS62	20656	
						Outline Dwg Conn. Diag Additional Spec	cifications:	SS62	20656	
						Outline Dwg Conn. Diag Additional Spec		SS62	20656	
40.0	40%	60% 80%	5 100%	120%	1.0	Outline Dwg Conn. Diag Additional Spec 0 0 R1	EQUI R2	SS62 EE73 V CKT (OHMS / PHASE) X1	20656 308LE X2	
40.0	40%	60% 80% LOAD	5 100%	120% 1	- 1.0	Outline Dwg Conn. Diag Additional Spec 0	EQUI	SS62 EE73 V CKT (OHMS / PHASE)	20656 308LE	
40.0	40%		5 100%		- 1.0	Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040	EQUI R2	SS62 EE73 V CKT (OHMS / PHASE) X1	20656 308LE X2	
40.0 0% 20%	40%				1.0 0.0 40%	Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040	EQUI R2	SS62 EE73 V CKT (OHMS / PHASE) X1	20656 008LE X2 4.1160	
40.0	40%			Speed -	1.0 0.0 40%	Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040	EQUI R2	SS62 EE73 V CKT (OHMS / PHASE) X1	20656 308LE X2	108.
40.0 0% 20%	40%			Speed -	1.0 0.0 40%	Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040	EQUI R2	SS62 EE73 V CKT (OHMS / PHASE) X1	20656 008LE X2 4.1160	108.
	40%			Speed -	1.0 0.0 40%	Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040	EQUI R2	SS62 EE73 V CKT (OHMS / PHASE) X1	20656 108LE X2 4.1160 60.0	108.
40.0 0% 20%	40%			Speed -	1.0 0.0 40%	Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040	EQUI R2	SS62 EE73 V CKT (OHMS / PHASE) X1	20656 008LE X2 4.1160	108.
	40%			Speed -	1.0 0.0 40%	Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040	EQUI R2	SS62 EE73 V CKT (OHMS / PHASE) X1	20656 108LE X2 4.1160 60.0	108.
	40%			Speed -	1.0 0.0 40%	Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040	EQUI R2	SS62 EE73 V CKT (OHMS / PHASE) X1	20656 108LE X2 4.1160 60.0	108.
40.0 30.0 0% 20%	40%			Speed -	1.0 0.0 40%	Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040	EQUI R2	SS62 EE73 V CKT (OHMS / PHASE) X1	20656 108LE X2 4.1160 60.0	108.
	40%			Speed -	1.0 0.0 40%	Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040	EQUI R2	SS62 EE73 V CKT (OHMS / PHASE) X1	20656 108LE X2 4.1160 60.0 50.0	108.
40.0 30.0 0% 20% 60.0 50.0 40.0 T	40%			Speed -	1.0 0.0 40%	Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040	EQUI R2	SS62 EE73 V CKT (OHMS / PHASE) X1	20656 108LE X2 4.1160 60.0 50.0	108.
40.0 30.0 0% 20% 60.0 50.0 40.0 T 0 8	40%			Speed -	1.0 0.0 40%	Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040	EQUI R2	SS62 EE73 V CKT (OHMS / PHASE) X1	20656 108LE X2 4.1160 60.0 50.0 40.0	108. A M
40.0 30.0 0% 20% 60.0 50.0 40.0 T 0 R 0 30.0 0% 20%	40%			Speed -	1.0 0.0 40%	Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040	EQUI R2	SS62 EE73 V CKT (OHMS / PHASE) X1	20656 108LE X2 4.1160 60.0 50.0	108. A M P
40.0 30.0 0% 20% 60.0 50.0 40.0 T 0 R 30.0 0% 20%	40%			Speed -	1.0 0.0 40%	Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040	EQUI R2	SS62 EE73 V CKT (OHMS / PHASE) X1	20656 108LE X2 4.1160 60.0 50.0 40.0	108. A M
40.0 30.0 0% 20% 60.0 50.0 40.0 T 0 R 0 30.0 0% 20%	40%			Speed -	1.0 0.0 40%	Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040	EQUI R2	SS62 EE73 V CKT (OHMS / PHASE) X1	20656 108LE X2 4.1160 60.0 50.0 40.0	A M P
40.0 30.0 0% 20% 60.0 50.0 40.0 T 0 R 30.0 0% 20%	40%			Speed -	1.0 0.0 40%	Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040	EQUI R2	SS62 EE73 V CKT (OHMS / PHASE) X1	20656 108LE X2 4.1160 60.0 50.0 40.0	A M P S
40.0 30.0 0% 20% 60.0 50.0 40.0 T 0 R 30.0 0% 20%	40%			Speed -	1.0 0.0 40%	Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040	EQUI R2	SS62 EE73 V CKT (OHMS / PHASE) X1	20656 108LE X2 4.1160 60.0 50.0 40.0 30.0	A M P S
40.0 30.0 0% 20% 60.0 50.0 40.0 T 0 R 30.0 0% 20%	40%			Speed -	1.0 0.0 40%	Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040	EQUI R2	SS62 EE73 V CKT (OHMS / PHASE) X1	20656 108LE X2 4.1160 60.0 50.0 40.0 30.0	108. A M P S
40.0 30.0 0% 20% 60.0 50.0 40.0 50.0 40.0 20% 20% 20%				Speed -	1.0 0.0 40%	Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040	EQUI R2	SS62 EE73 V CKT (OHMS / PHASE) X1	20656 108LE X2 4.1160 60.0 50.0 40.0 30.0 20.0	108. M P S
40.0 30.0 0% 20% 60.0 50.0 40.0 T 0 R 30.0 0% 20%				Speed -	1.0 0.0 40%	Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040	EQUI R2	SS62 EE73 V CKT (OHMS / PHASE) X1	20656 108LE X2 4.1160 60.0 50.0 40.0 30.0	108. M P S
40.0 30.0 0% 20% 60.0 50.0 40.0 50.0 40.0 20% 20% 20%				Speed -	1.0 0.0 40%	Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040	EQUI R2	SS62 EE73 V CKT (OHMS / PHASE) X1	20656 108LE X2 4.1160 60.0 50.0 40.0 30.0 20.0	108 A M P S
40.0 30.0 0% 20% 60.0 50.0 40.0 50.0 40.0 20% 10.0 10.0				Speed -	1.0 0.0 40%	Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040	EQUI R2	SS62 EE73 V CKT (OHMS / PHASE) X1	20656 108LE X2 4.1160 60.0 50.0 40.0 30.0 20.0 10.0	108. M P S
40.0 30.0 0% 20% 60.0 50.0 40.0 50.0 40.0 20% 20% 20%				Speed -	1.0 0.0 40%	Outline Dwg Conn. Diag Additional Spec 0 0 1.3040	EQUI R2 1.5310	SS62 EE73 V CKT (OHMS / PHASE) X1	20656 108LE X2 4.1160 60.0 50.0 40.0 30.0 20.0	108. M P S