PRODUCT INFORMATION PACKET

Model No: 810157.00 Catalog No: 810157.00 Encoder Motors, TENV, 7.50 HP, 3 Ph, 60 Hz, 230/460 V, 1775 RPM, 213TC Frame



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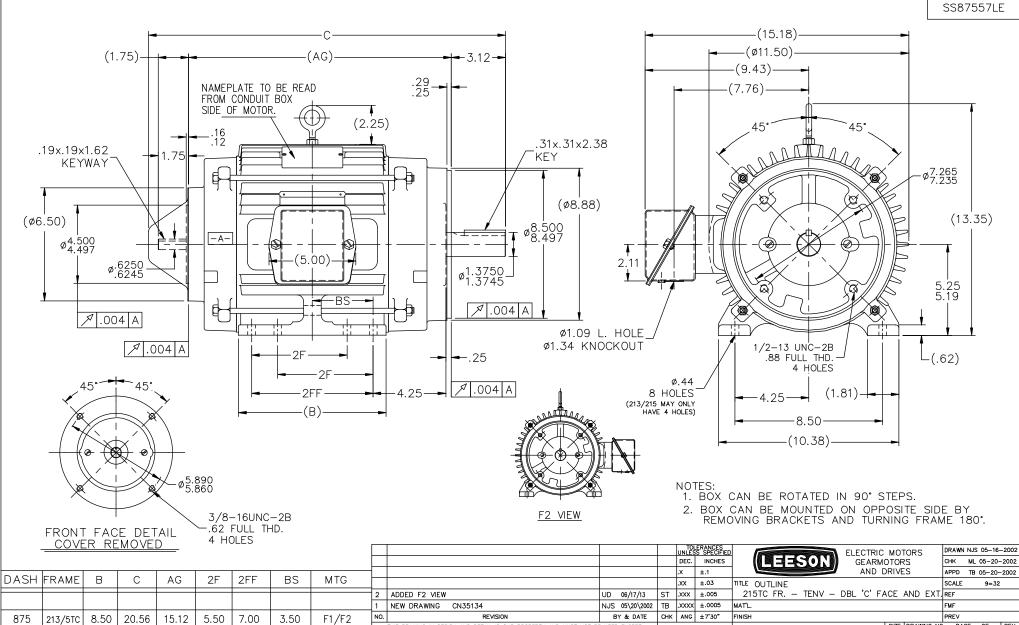
Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.6 kW
Frequency	60 Hz	Voltage	230/460 V
Current	21.0/10.5 A	Speed	1775 rpm
Service Factor	1	Phase	3
Efficiency	90.2 %	Power Factor	75
Duty	Continuous	Insulation Class	Н
Design Code	INV	KVA Code	L
Frame	213TC	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	309	Opp Drive End Bearing Size	207
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

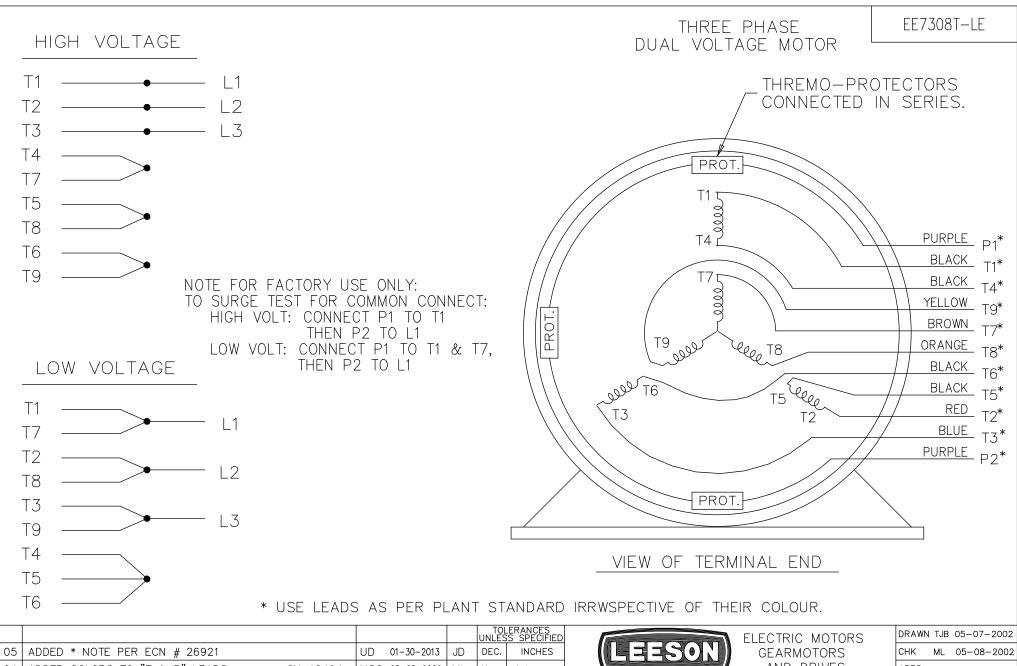
Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	3.25 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	т	Overall Length	20.56 in
Frame Length	8.75 in	Shaft Diameter	1.375 in
Shaft Extension	3.38 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS87557LE-875	Connection Drawing	A-EE7308T-LE

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875	213/5TC	8.50	20.56	15.12	5.50	7.00	3.50	F1/F2	NO.	REVISION	BY & DATE	СНК	ANG	±7'3	30" FINI	SH			PREV		
	,					0.05	4.10		-	THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BI		RFP	05	i-20-2	2002 CAD	FILE SS87557LE	SIZE	DRAWING NO	D. PAGE	OF	REV.
1000	215TC	9.75	21.81	16.37	7.00	8.25	4.12	F1/F2		THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE		DIST	LB				ΠВ	SS8	37557L	.E	2



	"							
0	ADDED COLORS TO "T & P" LEADS CN 40494	MSG 08-08-2006	ML	.х	±.1	AND DRIVES	APPD TB 05-08-	-2002
0	03 RE-ISSUE	NJS 04-21-2004	JET	.xx	±.02	TITLE CONNECTION DIAGRAM	SCALE 1=1	
0	2 REDRAWN	TAT 04-20-2004	ML	.xxx	±.005	3 PHASE – DUAL VOLTAGE MOTOR	REF	
0	1 NEW DRAWING CN 34708	TJB 05-08-2002	ML	.xxxx	±.0005	MAT'L.	FMF	
N	0. REVISION	BY & DATE	СНК	ANG	±7'30"	FINISH	PREV	
	THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE		RFP			CAD FILE EE7308T_LE SIZE DRAWING N		REV.
	IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION AF THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE T		DIST	LB–	WP-LE	A EE7	7308T-LE	05

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PO#: CATALOG #: 810157.00

CONN. DIAGRAM: A-EE7308T-LE

OUTLINE: B-SS87557LE-875 **WINDING #:** K2134188 1

MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

НР	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
7 1/2	5.60	1800	1775	213TC	TENV	L	INV

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	230/460	21/10.5	INVERTER ONLY	CONTINUOUS	H4	1.0	40

FULL LOAD EFF:	90.2	3/4 LOAD EFF:	90.2	1/2 LOAD EFF:	88.5	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	75	3/4 LOAD PF:	68	1/2 LOAD PF:	55.5	88.5	SQ CAGE INV DUTY

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
22.2 LB-FT	182 / 91	80 LB-FT 360 %	88 LB-FT 423 %	85

	RESSURE	SOUNE	POWER	ROTO	R WK^2	МА	X. WK^2	SAFE S	TALL TIME	STARTS / HOUR	АРР МОТО	ROX. R WGT
62	dBA	72	dBA	1.05	LB-FT^2	0	LB-FT^2	0	SEC.	0	180	LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	ENCODER	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE - LEESON (ENAMEL)

BEAR	RINGS	CREASE		SPECIAL DE	SPECIAL ODE	SHAFT	FRAME
DE	ODE	GREASE	SHAFT TYPE	SPECIAL DE SPECIAL ODE		MATERIAL	MATERIAL
BALL	BALL	POLYREX EM	Ŧ	NONE	NONE		
309	207	POLIKEX EM	I	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

		THERMO-PROTECT	ORS		TUERMICTORC	CONTROL	SPACE HEATER	
	THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs	- THERMISTORS	CONTROL	SPACE	IEATERS
	TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE	VOLTS
*					NVERTER TORQUE: NV. HP SPEED RANG			
Ν				Ē	NCODER: PROVISIC	NS ONLY		
0					IORTHSTAR IONE NONE	ST56 PPR		
т				E	RAKE: NONE	NONE		
E					IONE P/N NON			
S				L	FT-LB NONE	V NONE	Hz	

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Date	: 1/17	//2018		Data S	neet			810157.00	1	
	LEESON									
				Moto	r Load Data	®		Dat	a@ 460	v
oad	0%	25%	50%	75%	100%	115%	125%	LR		
Current (Amps)	5.8	6.2	7.2	8.5	10.5	11.5	12.5	91.0		
orque (ft-lb)	0.00	5.5	11.0	16.6	22.2	25.1	28.0	80.0		
RPM	1800	1795 81.5	1788 88.5	1782 90.2	1775 90.2	1,772 90.2	1768 90.2	0		
fficiency (%) P.F. (%)	6.5	35.5	55.5	68.0	75.0	77.3	79.5	44.5		
		Motor Speed D								1
	LR	Pull-Up	BD	Rated	Idle					
peed (RPM)	0	900	1575	1775	1800			Information Block		
urrent (Amps)	91.0	85.0	53.0	10.5	5.8	HP		7.5		
orque (ft-lb)	80.0	75.0	94.0	22.2	0.00	Sync. RPM		1800		
						Frame		213		
_	Efficiency (%)	— P.F. (%)	— (Current (Amps)		Enclosure		TENV		
100.0					14.0	Construction		TTN		
100.0					14.0	Voltage		230/460	V	
					1	Frequency		60	Hz	
90.0					12.0					
						Design		A		
E						LR Code letter		L 115		
F 80.0					10.0	Service Factor Temp Rise @ F	-	1.15 85	°C	
F					A	Duty	-	CONT	U	
					М	Ambient		40	°C	
P 70.0					8.0 P	Elevation		1,000	feet	
F F					S	Rotor/Shaft wk	2	1.05	Lb-Ft ²	
					_	Ref Wdg		K2134188 NONE		
60.0					6.0	Sound Pressure	o. @ 1M	62	dBA	
					_					
50.0					4.0	VFD Rating		CONSTANT 20	000:1	
					_	Outline Dwg			57LE-875	
40.0					2.0	Conn. Diag		A-EE73	808T-LE	
40.0					2.0	Additional Spec	cifications:			
					_	0				
					0.0		EOU	IV CKT (OHMS / PHASE)		
30.0					+ 0.0					
30.0 0% 20%	6 40%	60% 80%	5 100%	120% 1	40%	R1	R2	X1	X2	
	6 40%	60% 80% LOAD	5 100%	120% 1		R1 0.5750			X2 2.9860	X 43.8
0% 20%	6 40%					0.5750	R2	X1	2.9860	43.8
	6 40%			Speed -	.40%	0.5750 urve	R2	X1		43.8
100.0	6 40%			Speed -	.40%	0.5750 urve	R2	X1	2.9860	43.8
0% 20%	6 40%			Speed -	.40%	0.5750 urve	R2	X1	2.9860	43.8
0% 20%	6 40%			Speed -	.40%	0.5750 urve	R2	X1	2.9860	43.8
100.0	6 40%			Speed -	.40%	0.5750 urve	R2	X1	2.9860	43.8
0% 20%	6 40%			Speed -	.40%	0.5750 urve	R2	X1	2.9860 90.0 80.0	43.8
0% 20%	6 40%			Speed -	.40%	0.5750 urve	R2	X1	2.9860	43.8
0% 20%	6 40%			Speed -	.40%	0.5750 urve	R2	X1	2.9860 90.0 80.0 70.0	43.8
0% 20%	6 40%			Speed -	.40%	0.5750 urve	R2	X1	2.9860 90.0 80.0	43.8
0% 20%	6 40%			Speed -	.40%	0.5750 urve	R2	X1	2.9860 90.0 80.0 70.0 60.0	43.8 A M
0% 20%	6 40%			Speed -	.40%	0.5750 urve	R2	X1	2.9860 90.0 80.0 70.0	43.8 A M P
0% 20%	6 40%			Speed -	.40%	0.5750 urve	R2	X1	2.9860 90.0 80.0 70.0 60.0 50.0	43.8
0% 20%	6 40%			Speed -	.40%	0.5750 urve	R2	X1	2.9860 90.0 80.0 70.0 60.0	43.8 A M P
0% 20%	6 40%			Speed -	.40%	0.5750 urve	R2	X1	2.9860 90.0 80.0 70.0 60.0 50.0 40.0	43.8 A M P
0% 20%	6 40%			Speed -	.40%	0.5750 urve	R2	X1	2.9860 90.0 80.0 70.0 60.0 50.0	43.8 A M P
0% 20%	6 40%			Speed -	.40%	0.5750 urve	R2	X1	2.9860 90.0 80.0 70.0 60.0 50.0 40.0 30.0	43.8 A M P
0% 20%	6 40%			Speed -	.40%	0.5750 urve	R2	X1	2.9860 90.0 80.0 70.0 60.0 50.0 40.0	43.8 A M P
0% 20%	6 40%			Speed -	.40%	0.5750 urve	R2	X1	2.9860 90.0 80.0 70.0 60.0 50.0 40.0 30.0	43.8 A M P
0% 20%	6 40%			Speed -	.40%	0.5750 urve	R2	X1	2.9860 90.0 80.0 70.0 60.0 50.0 40.0 30.0	43.8 A M P
0% 20%	6 40%			Speed -	.40%	0.5750 urve	R2	X1	2.9860 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0	43.8 A M P
0% 20%	6 40%			Speed -	.40%	0.5750	R2	X1	2.9860 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0	43.8 A M P