

PRODUCT INFORMATION PACKET



Model No: 811659.00
Catalog No: 811659.00
60 HP Severe Duty Motor, 3 phase, 1200 RPM, 404T Frame, TEFC
Severe Duty Motors



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Nameplate Specifications

Output HP	60 Hp	Output KW	45.0 kW
Frequency	60 Hz	Voltage	460 V
Current	72.0 A	Speed	1185 rpm
Service Factor	1.15	Phase	3
Efficiency	94.5 %	Power Factor	83
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	404T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6316	Opp Drive End Bearing Size	6313
UL	Recognized	CSA	Y
CE	Y	IP Code	56
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	.111 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	35.63 in
Frame Length	15.25 in	Shaft Diameter	2.875 in
Shaft Extension	7.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	B-SS508591-1525	Connection Drawing	A-EE7300U

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IF MOTOR HAS 9 LEADS



IF MOTOR HAS 6 LEADS



A-9806 DECAL IF CALLED FOR

IF MOTOR HAS 12 LEADS



VIEW OF TERMINAL END

DRAWING REVISION L	REVISION BY AJW	DATE 05-04-2015	TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH. mm ANGLE .X ±0.1 [±2.5] ±7' 30" .XX ±0.02 [±0.51] XXX ±0.005 [±0.127] .XXXX ±0.0005 [±0.0127] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45° CORNER FILLETS: R.02 [.51] MACHINED SURFACES: 200[✓] INCH 5.1[✓] mm mm SHOWN IN [BRACKETS]		DRAWN BY DRS	REGAL™ Regal Beloit America, Inc.		
ECO ECO-0077067	APPROVED BY EWH	DATE 05-05-2015			DATE 09-27-1996	DESCRIPTION		
ECO DESCRIPTION UPDATED TO SOLIDWORKS			APPROVED BY GK		CONN DIAGRAM-EXTERNAL 3Ø SINDLE VOLTAGE			
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			THIRD ANGLE PROJECTION		SIZE A	DRAWING NUMBER EE7300U		SHEET 1 OF 1



P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7300U

CAT #: 811659.00

OUTLINE: B-SS508591-1525

WINDING: T404640

NONE 10

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
60	45	1200	1185	404T	TEFC	TFS	G	BC

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	460	72	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	94.5	3/4 LD EFF	95.0	1/2 LD EFF	95.0	GTD EFF		ELECT. TYPE	
F.L. PF	83.0	3/4 LD PF	78.5	1/2 LD PF	70.0	94.1		SQ CAGE INV RATED	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
266 LB-FT	435	535 LB-FT 201%	650 LB-FT 244%	60

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
68 dBA	77 dBA	33.5 LB-FT²	1000 LB-FT²	25 SEC.	2	1125 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	UM SEVERE	DIVISION 2 T2B	NO	NONE	N - LEESON WATTS

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6316	6313						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.071	0.043	0.394	0.527	9.545	0.080	ODE

* N O T E S *		INVERTER TORQUE: CONSTANT 20:1 INV. HP SPEED RANGE: NONE
	ENCODER: NONE NONE NONE	NONE PPR
DATE: 1/19/2018	BRAKE: NONE NONE	
	FT-LB: NA VOLTAGE: NONE	
	UL: Y-(LEESON UL REC)	

Data Sheet

Date: 1/19/2018

811659.00



Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	26.5	31.5	42.0	56.5	72.0	82.0	89.5	435	
Torque (ft-lb)	0.00	65.5	132	199	266	306	333	535	
RPM	1200	1196	1194	1188	1185	1,182	1180	0	
Efficiency (%)		93.0	95.0	95.0	94.5	94.1	94.1		
P.F. (%)	4.5	48.0	70.0	78.5	83.0	83.5	83.5	36.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	600	1050	1185	1200	HP	60.0
Current (Amps)	435	390	240	72.0	26.5	Sync. RPM	1200
Torque (ft-lb)	535	475	650	266	0.00	Frame	404
						Enclosure	TEFC
						Construction	TFS
						Voltage	460 V
						Frequency	60 Hz
						Design	B
						LR Code letter	G
						Service Factor	1.15
						Temp Rise @ FL	60 °C
						Duty	CONT
						Ambient	40 °C
						Elevation	1,000 feet
						Rotor/Shaft wk²	33.5 Lb-Ft²
						Ref Wdg	T404640 NONE
						Sound Pressure @ 1M	68 dBA
						VFD Rating	CONSTANT 20:1
						Outline Dwg	B-SS508591-1525
						Conn. Diag	A-EE7300U
Additional Specifications:							
0							
0							
EQUIV CKT (OHMS / PHASE)							
	R1	R2	X1	X2	Xm		
	0.0710	0.0430	0.3940	0.5270	9.5450		

Speed -Torque Curve

