

PRODUCT INFORMATION PACKET



Model No: LM32788

Catalog No: LM32788

General Purpose Motor, 100 & 75 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM,
404TSC Frame, DP



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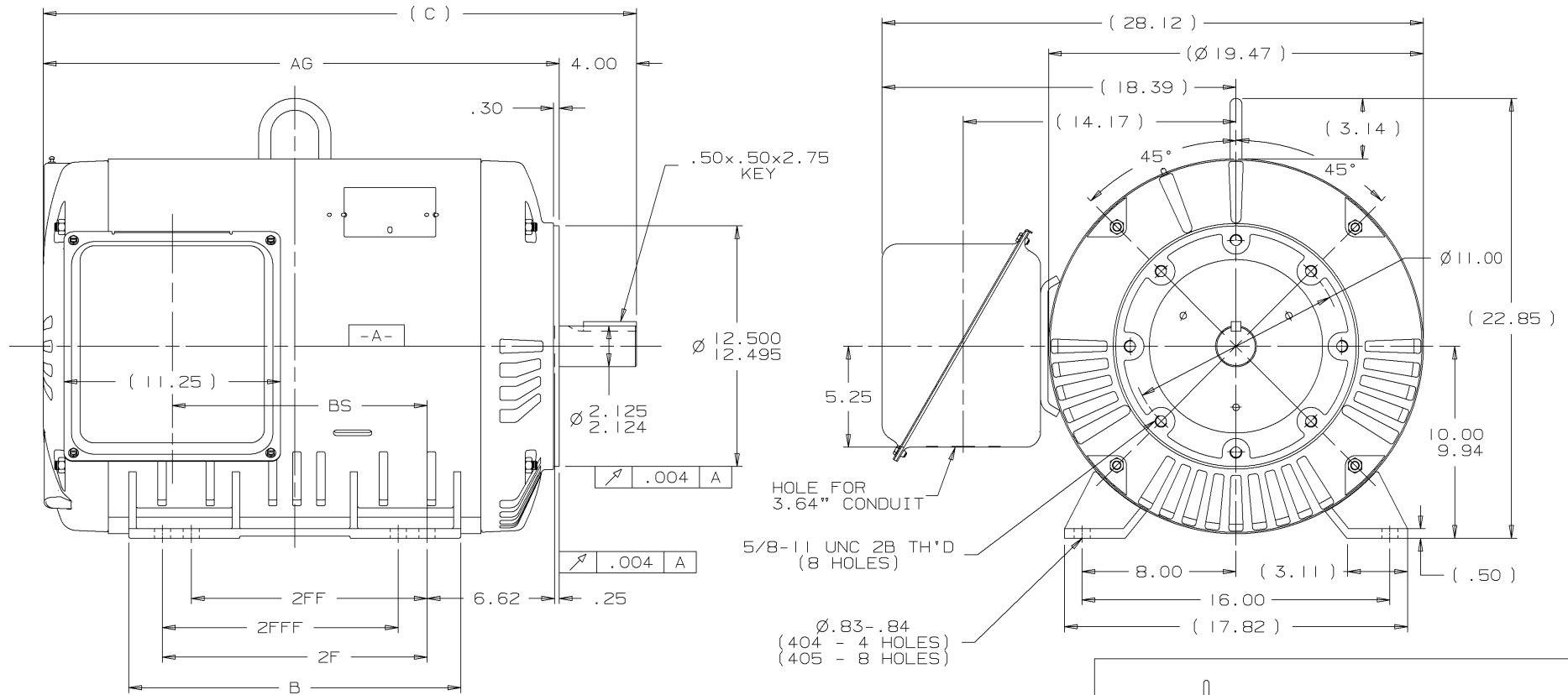


Nameplate Specifications

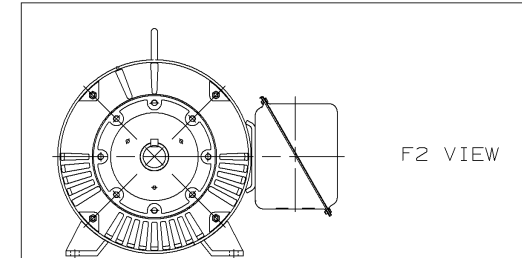
Phase	3	Output HP	100 & 75 Hp
Output KW	75.0 & 56.0 kW	Voltage	230/460 & 190/380 V
Speed	1784 & 1485 rpm	Service Factor	1.25 & 1.15
Frame	404TSC	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	95.4 & 94.1 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	260/130 & 240/120 A	Power Factor	75
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	F
Drive End Bearing Size	315	Opp Drive End Bearing Size	313
UL	Recognized	CSA	Y
CE	Y	IP Code	22
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.0449 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	TS	Overall Length	29.16 in
Frame Length	17.35 in	Shaft Diameter	2.125 in
Shaft Extension	4.25 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	XJ2D1SC2-1735	Connection Drawing	EE7308AA-LN



- NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.



DASH	FRAME	C	AG	BS	B	2F	2FF	2FFF	REV	DATE	CHANGE	NAME	HLB	PART NAME	OUTLINE NEMA MOTORS	400TS ODP UE DE C-FACE	DRWG NO	XJ2DISC2
1735	404TS	29.16	25.16	11.75	15.75	12.25			I	09-13-2001	NEW DRAWING		HLB	400TS ODP UE DE C-FACE				
1885	405TS	30.66	26.66	13.25	17.25	13.75	12.25	12.25	REV	DATE	CHANGE	NAME	HLB	DISTRIBUTION	W A - L B - W P - BY	CADD FILE NO.	XJ2DISC2	

Lincoln
MOTORS

✓	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX±.02 XXX±.005 XXXX±.0005 ANGLES± 7'30"	DRAWN BY	HLB	09-12-2001
MAX. SURFACE ROUGHNESS UNLESS OTHERWISE NOTED		CHKD BY	ML	09-13-2001
FINISH		APPD BY	HNH	09-13-2001
MATERIAL				

T12 _____
 T1 _____
 T6 _____ L1
 T7 _____

T2 _____
 T4 _____
 T8 _____ L2
 T10 _____

T3 _____
 T5 _____
 T9 _____ L3
 T11 _____

LOW VOLTAGE

T12 _____ L1
 T1 _____

T4 _____
 T7 _____

T2 _____ L2
 T10 _____

T5 _____
 T8 _____

T3 _____ L3
 T11 _____

T6 _____
 T9 _____

HIGH VOLTAGE



VIEW OF TERMINAL END

					✓ UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX±.02 XXX±.005 XXXX±.0005 ANGLES± 7°30"		
2	08-09-1999	RE-ISSUE, ADDED '-' TO PART NUMBER	BLR		MAX. SURFACE ROUGHNESS UNLESS OTHERWISE NOTED		DRAWN BY TRB 07-16-1999
					FINISH		CHKD BY ML 06-18-1999
1	06-18-1999	NEW DRAWING	TRB		MATERIAL		APPD BY GK 06-18-1999
REV	DATE	CHANGE	NAME	PART NAME 3 PHASE CONNECTION DIAGRAM 2/1 DELTA - 12 LEADS			DRWG NO A- EE7308AA-LN
				PURCHASED	CADD FILE NO.	EE7308AALN	

ERROR: undefined
OFFENDING COMMAND: Pscrip
STACK:



2100 WASHINGTON ST.
GRAFTON, WI
PH. 262-277-8810

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7308AA-LN

OUTLINE: XJ2D1SC2-1735

WINDING #: L4044018 1

CATALOG : LM32788

MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
100&75	75.0&56.0	1800	1784&1485	404TSC	DP	F	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60/50	230/460&190/380	260/130&240/120	WYE START DELTA RUN	CONTINUOUS	F1	1.25/1.15	40

FULL LOAD EFF:	95.4&94.1	3/4 LOAD EFF:	95	1/2 LOAD EFF:	94.1	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	75&75	3/4 LOAD PF:	69	1/2 LOAD PF:	56.5	94.5	SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
294 LB-FT	1450 / 725	578 LB-FT 196 %	718 LB-FT 244 %	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
- dBA	- dBA	20 LB-FT^2	- LB-FT^2	- SEC.	-	- LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	GRAY - LINCOLN

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL						
315	313	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
FT-LB V NONE Hz

Data Sheet

Date: 1/23/2018

LM32788



Data @ 460 V

Motor Load Data

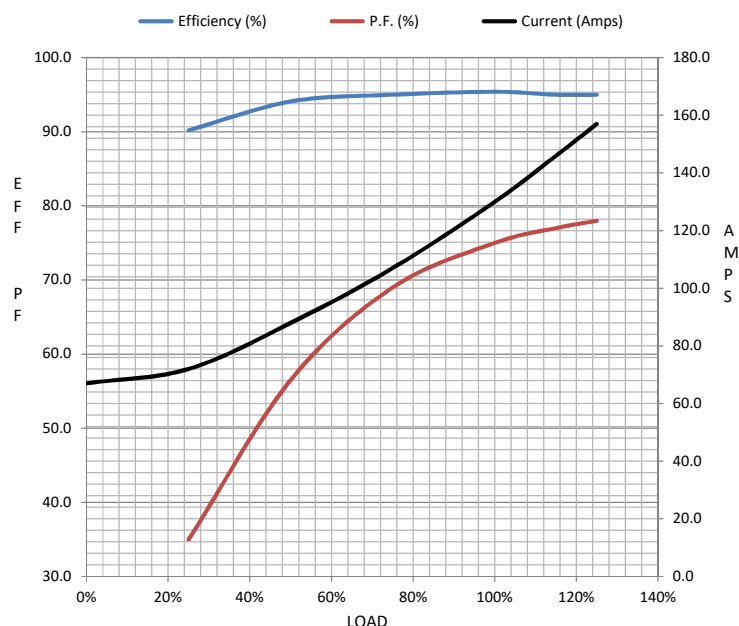
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	67.0	72.0	88.0	107	130	146	157	725	
Torque (ft-lb)	0.00	73.0	147	220	294	339	369	578	
RPM	1800	1796	1792	1788	1784	1,781	1780	0	
Efficiency (%)		90.2	94.1	95.0	95.4	95.0	95.0		
P.F. (%)	3.5	35.0	56.5	69.0	75.0	77.0	78.0	30.0	

Motor Speed Data

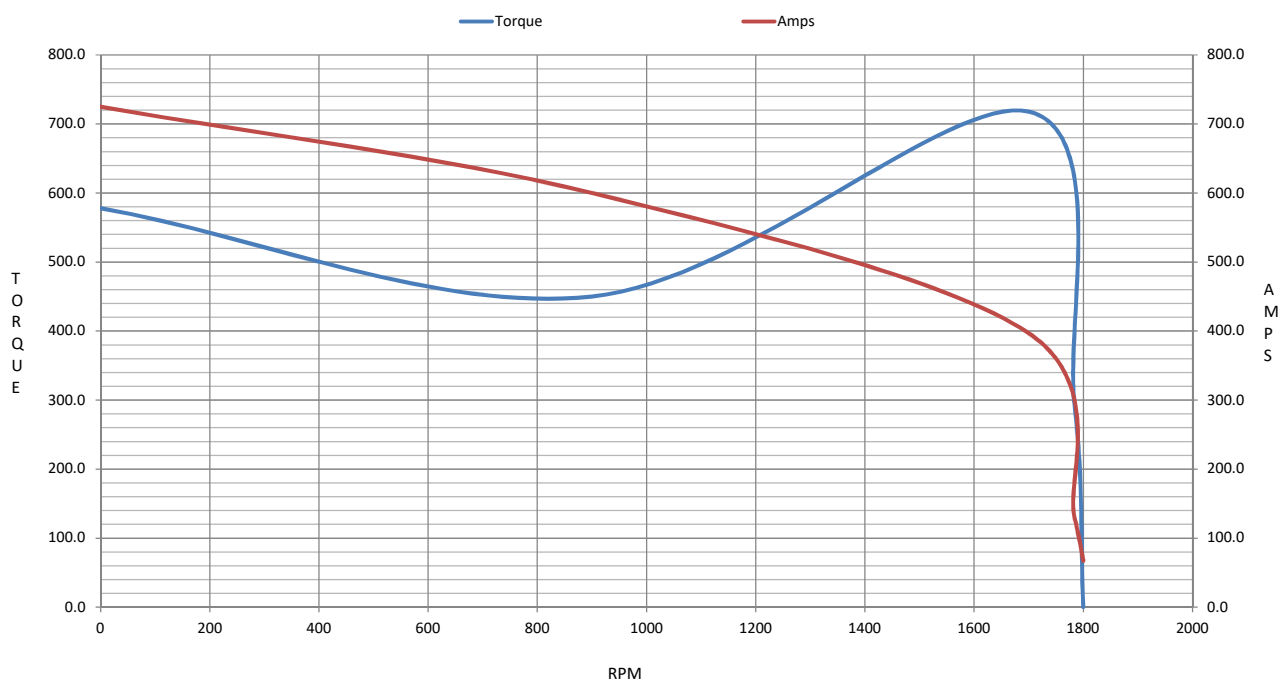
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1700	1784	1800
Current (Amps)	725	600	397	130	67.0
Torque (ft-lb)	578	450	718	294	0.00

Information Block

HP	100.0			
Sync. RPM	1800			
Frame	404			
Enclosure	DP			
Construction	TDR			
Voltage	230/460#190/380	V		
Frequency	60	Hz		
Design	B			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	45	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk²	20.0	Lb-Ft²		
Ref Wdg	L4044018	NONE		
Sound Pressure @ 1M	999	dBA		
VFD Rating	NONE			
Outline Dwg	XJ2D1SC2-1735			
Conn. Diag	A-EE7308AA-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0310	0.0200	0.2500	0.2470	3.9480



Speed - Torque Curve



EC Declaration of Conformity

The undersigned representing
the manufacturer:

Regal Beloit America
100 East Randolph St.
Wausau, WI 54401

and the authorized representative
established within the Community:

Marathon Electric UK
6F Thistleton Road Ind. Estate
Market Overton
Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No : LM32788

(Model No. may contain prefix and/or suffix characters)

Catalog No : LM32788

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010)

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:



Michael A. Logsdon
Vice President, Technology

Authorized Representative in the Community:



Julian Clark
Marketing Engineer

Created on 09/01/2022

CE 22