

PRODUCT INFORMATION PACKET



Model No: 182THFR5329

Catalog No: Y370

Speed Ratio Motor, 3 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 182TCZ Frame, TEFC



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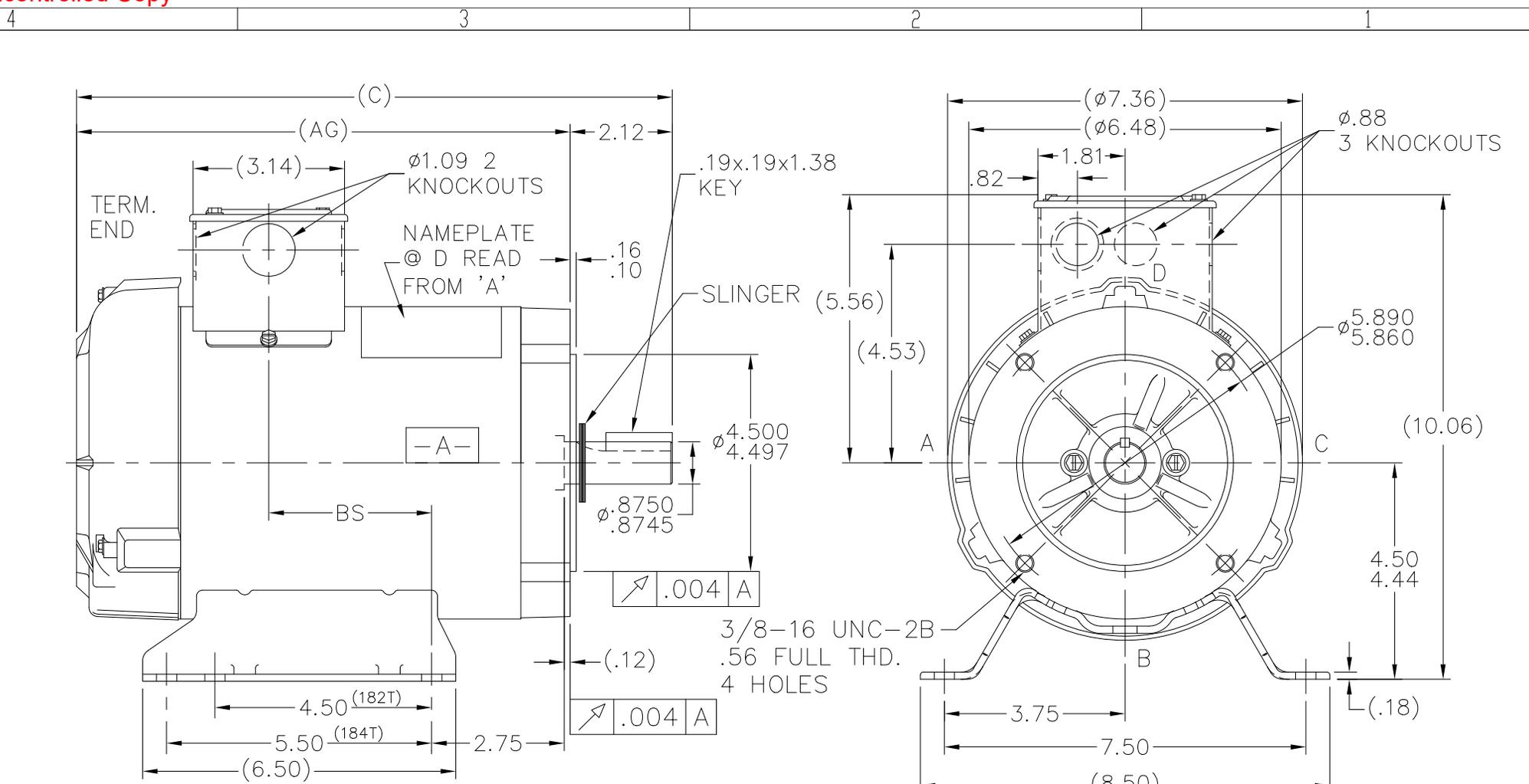


Nameplate Specifications

Phase	3	Output HP	3 Hp
Output KW	2.2 kW	Voltage	230/460 V
Speed	1735 rpm	Service Factor	1.0
Frame	182TCZ	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	85.5 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	8.4/4.2 A	Power Factor	79
Duty	Continuous	Insulation Class	H
Design Code	INV	KVA Code	L
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6203
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

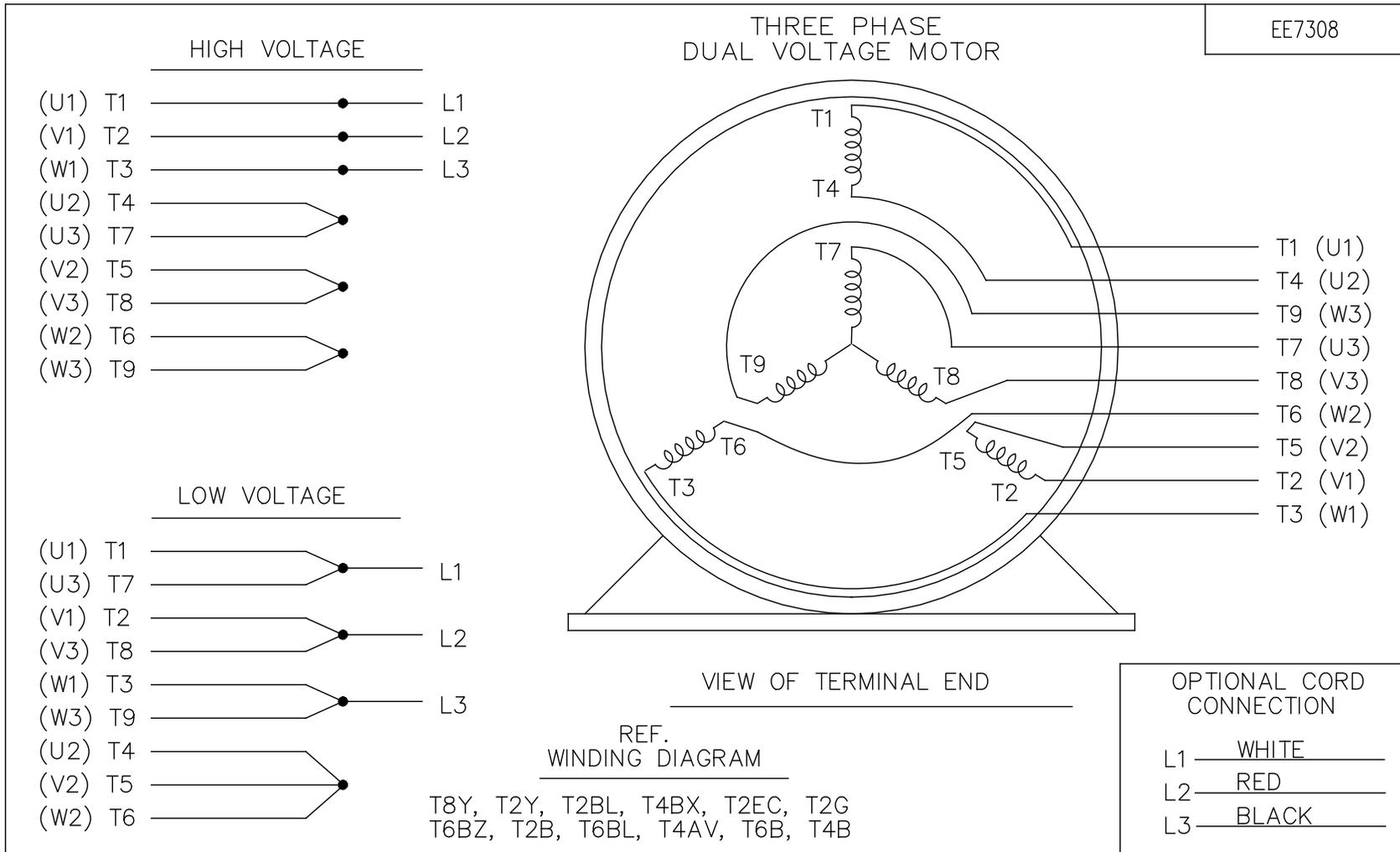
Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	5.32 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	NEMA 145T	Overall Length	14.87 in
Frame Length	9.56 in	Shaft Diameter	0.875 in
Shaft Extension	2.12 in	Assembly/Box Mounting	F3
Inverter Load	CONSTANT 2:1		
Outline Drawing	A-104964-956	Connection Drawing	A-EE7308



DASH	FRAME	C	AG	BS	DASH	FRAME	C	AG	BS
706	140T	12.37	10.25	3.38	856	140T	13.87	11.75	4.88
756	140T	12.87	10.75	3.88	906	140T	14.37	12.25	5.38
806	140T	13.37	11.25	4.38	956	140T	14.87	12.75	5.88

NOTE:
CONDUIT BOX CAN BE ROTATED
IN 180° STEPS

DRAWING REVISION C	REVISION BY GKB	REV DATE/ DATE 04/15/2025	TOLERANCES (EXCEPT AS NOTED): DEC. INCH — mm ANGLE .X ±0.1 [±3] ±0.5° .XX ±0.01 [±0.3] .XXX ±0.005 [±0.13] .XXXX ±0.0005 [±0.013]	DRAWN BY MSG	Regal Beloit America, Inc.		
REQUEST NUMBER ECR-0242041	APPROVED BY RK	DATE 04/15/2025	REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45 CORNER FILLETS: R.02 [.5] MACHINED SURFACES: 125/ 3.2 INCH ✓ mm/	DATE 02/21/2001			
REQUEST NUMBER DESCRIPTION CHANGED FROM MARATHON TO RRX TEMPLATE				APPROVED BY DN	DESCRIPTION OUTLINE 140 FR.-TEFC- 'FACE-(180 MOUNTING)		
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			REFERENCE	PROCESS/FINISH			
			mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER 104964	SHEET 1 OF 1



NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		FINISH	DRAWN RM 11/20/1990				
					DEC.	INCHES						
5	CHG TO REGAL LOGO	SL 09/10/2015	AB					CHK ML 11/21/1990				
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X	±.1			APPD SAS 04/24/2003				
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX	±.02		TITLE CONNECTION DIAGRAM	SCALE 1=1				
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005		3Ø - DUAL VOLTAGE MOTOR	REF				
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005		MAT'L.	FMF				
					±7'30"			PREV				
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT							RFP	CAD FILE ee7308	SIZE A	DRAWING NO. EE7308	PAGE OF 5	REV. 5
							DIST WP					

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

DATE: 06/27/2017 01:11:54 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

Date: 19-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



182THFR5329

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	2.30	2.50	3.0	3.5	4.2	4.6	5.0	36.0
Torque (ft-lb)	0.00	2.20	4.5	6.8	9.0	10.3	11.5	30.0
RPM	1800	1785	1770	1755	1735	1,727	1715	0
Efficiency (%)		75.5	83.5	85.0	85.5	84.8	84.0	
P.F. (%)	8.5	38.0	58.5	71.5	79.0	81.8	84.5	67.0

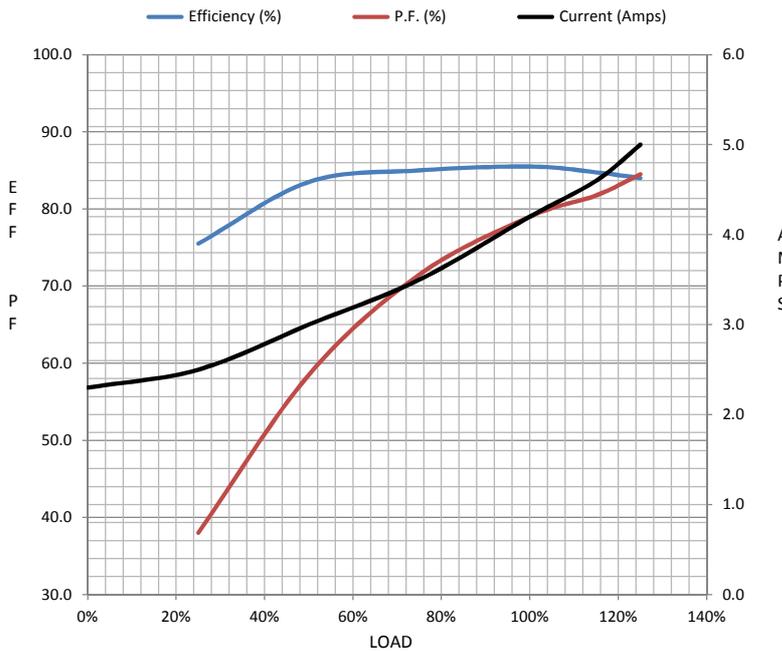
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	800	1205	1735	1800
Current (Amps)	36.0	32.0	24.0	4.2	2.30
Torque (ft-lb)	30.0	35.0	38.5	9.0	0.00

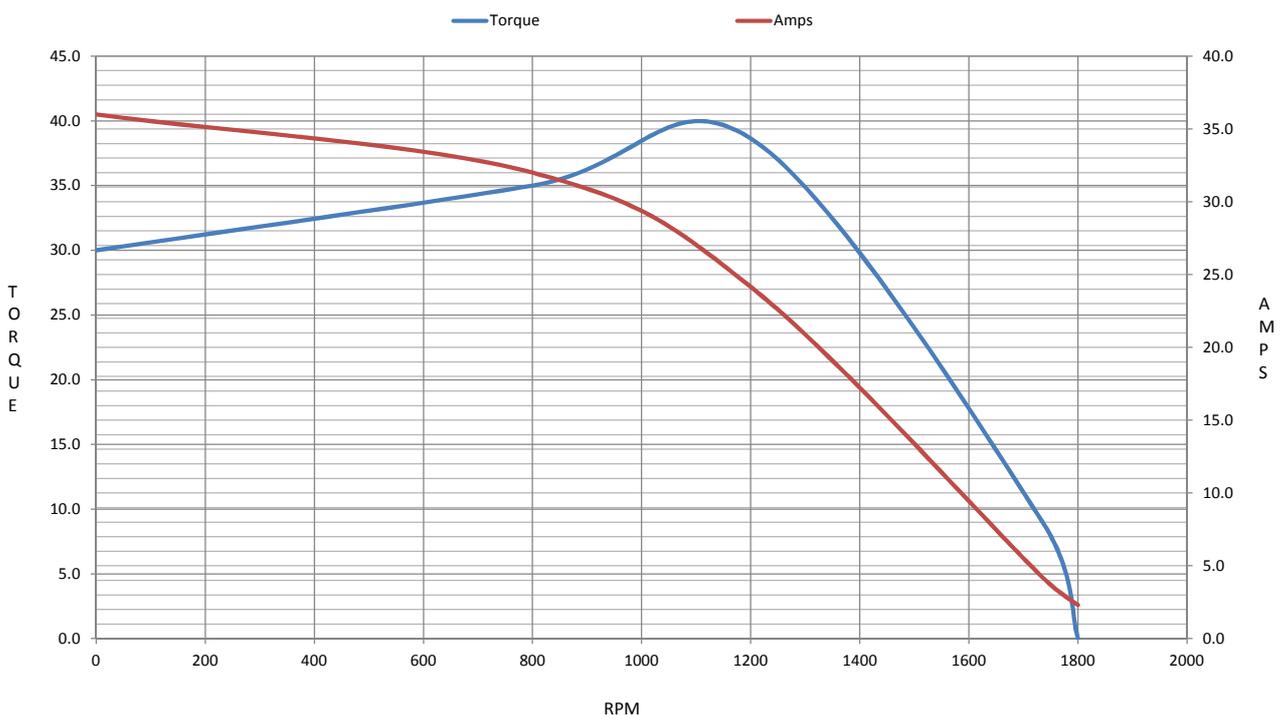
MOTOR IS TOO HOT

Information Block

HP	#VALUE!			
Sync. RPM	NA			
Frame	145			
Enclosure	TEFC			
Construction	TFR			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	L			
Service Factor	HOT			
Temp Rise @ FL	70 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.14 Lb-Ft ²			
Ref Wdg	ZT468 R2			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	A-104964-956			
Conn. Diag	A-EE7308			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
3.4020	2.6930	4.5740	4.8480	124.7400



Speed - Torque Curve



EC Declaration of Conformity

The undersigned representing
the manufacturer:

Regal Beloit America
1946 West Cook Road
Fort Wayne, IN 46818

and the authorized representative
established within the Community:

Regal Beloit Italy
Via Modena, 18
24040 Ciserano(BG) - Italy

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 : 182THFR5329

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

Catalog No : Y370

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:



Zach Stauffer
Vice President, Engineering

Authorized Representative in the Community:



Stefano Casiraghi
Technology Director, Engineering

Created on 07/08/2025

CE 25