

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 182TTTN16571

Catalog No: U1867

XRI®-SD Severe Duty Motor, 3 & 2 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM,
182TV Frame, TEAO



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RegalRexnord

Nameplate Specifications

Phase	3	Output HP	3 & 2 Hp
Output KW	2.2 & 1.5 kW	Voltage	230/460 & 190/380 V
Speed	1760 & 1459 rpm	Service Factor	1.15 & 1.15
Frame	182TV	Enclosure	Totally Enclosed Air Over
Thermal Protection	No Protection	Efficiency	90.2 & 88.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	8/4 & 6.6/3.3 A	Power Factor	80
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	K
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	N	IP Code	56
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	3.76 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal Or Up Or Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	13.74 in
Frame Length	8.00 in	Shaft Diameter	1.125 in
Shaft Extension	2.85 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 20:1		
Connection Drawing	A-EE7308	Outline Drawing	035670-800

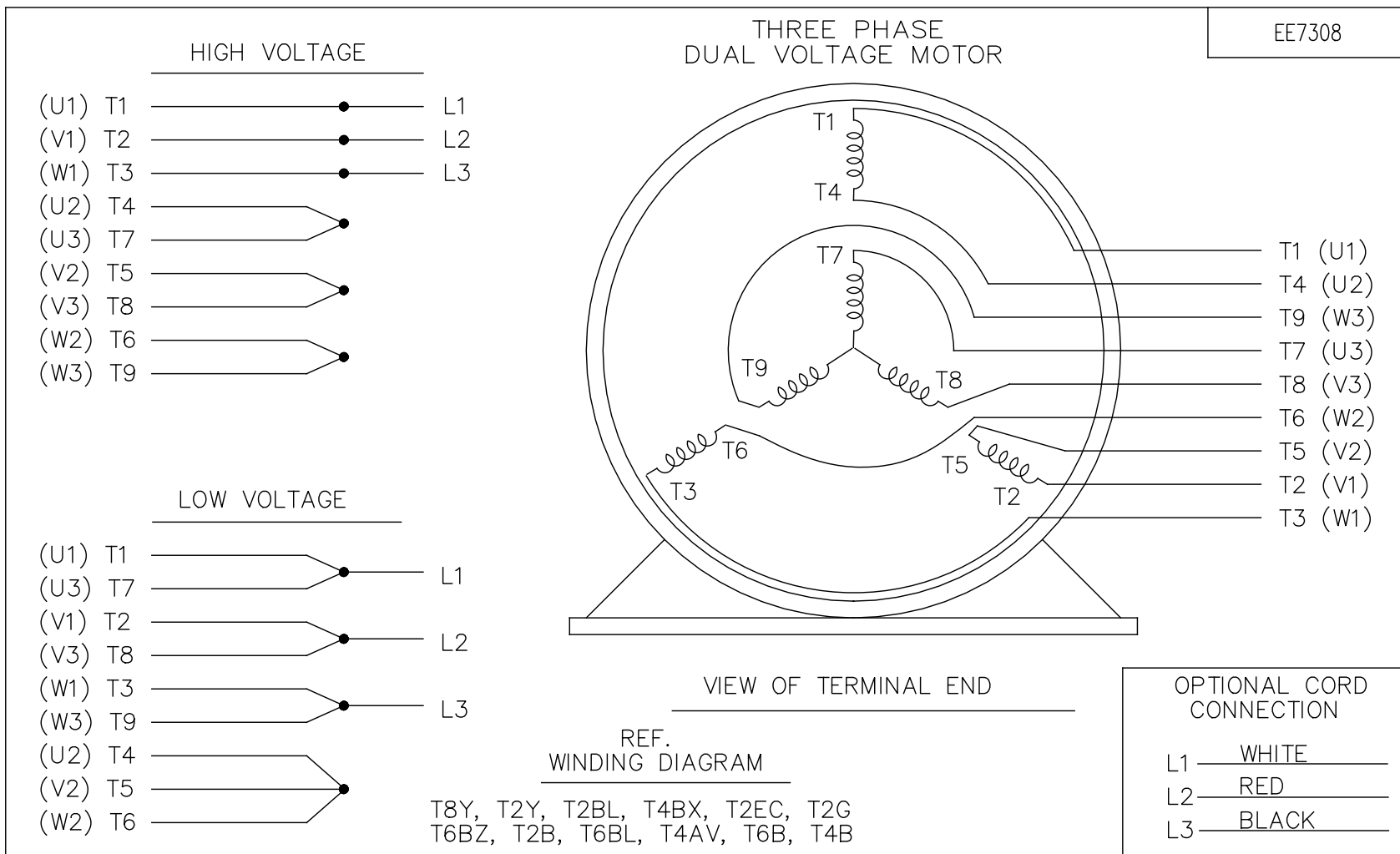


- | DRAWING REVISION
C | | REVISION BY
SS | | DATE
05/31/16 | | TOLERANCES UNLESS OTHERWISE SPECIFIED:
<table border="1"> <thead> <tr> <th>DEC.</th> <th>INCH</th> <th>mm</th> <th>ANGLE</th> </tr> </thead> <tbody> <tr> <td>.X</td> <td>±0.1</td> <td>[±2.5]</td> <td>±0.5°</td> </tr> <tr> <td>.XX</td> <td>±0.01</td> <td>[±0.25]</td> <td></td> </tr> <tr> <td>.XXX</td> <td>±0.005</td> <td>[±0.127]</td> <td></td> </tr> <tr> <td>.XXXX</td> <td>±0.0005</td> <td>[±0.0127]</td> <td></td> </tr> </tbody> </table> | | | DEC. | INCH | mm | ANGLE | .X | ±0.1 | [±2.5] | ±0.5° | .XX | ±0.01 | [±0.25] | | .XXX | ±0.005 | [±0.127] | | .XXXX | ±0.0005 | [±0.0127] | | DRAWN BY
TJW | | |  Regal Beloit America, Inc. | | |
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| .XXXX | ±0.0005 | [±0.0127] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ECO
ECO-0101042 | | APPROVED BY
GR | | DATE
05/31/16 | | DATE
3/25/2008 | | | DESCRIPTION | | | | | | | | | | | | | | | | | | | | | | | | | |
| ECO DESCRIPTION

TEMPLATE UPDATED.

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SW | | | OUTLINE
180 FR. - CAST C'BOX | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | DATE
3/26/2008 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | REFERENCE | | | MATERIAL | | PROCESS/FINISH | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | THIRD ANGLE PROJECTION  | | | SIZE
B | DRAWING NUMBER
035670 | | SHEET
1 OF 1 | | | | | | | | | | | | | | | | | | | | | | |

4	3	2	1
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NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		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		SCALE	1=1
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005		REF	
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005		FINISH	
					±7'30"			
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
					DIST WP			OF 5

CERTIFICATION DATA SHEET

Model#: 182TTTN16571 AA
 CONN. DIAGRAM: A-EE7308
 OUTLINE: 035670-800

WINDING#: K1824116 R21 1
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3&2	2.24&1.49	1800	1760&1459	182TV	TEAO	K	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	8/4&6.6/3.3	LINE OR INVERTER	CONTINUOU S	F3	1.15/1.15	40	3300

FULL LOAD EFF: 90.2&88.5	3/4 LOAD EFF: 89.5	1/2 LOAD EFF: 88.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 80&78.3	3/4 LOAD PF: 75	1/2 LOAD PF: 63	88.5	SQ CAGE INV RATED	3.8 / 1.9

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
9 LB-FT	64 / 32	22.5 LB-FT 250	35 LB-FT 389	0

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
- dBA	- dBA	0.4 LB-FT^2	- LB-FT^2	25 SEC.	-	- LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL OR UP OR DOWN	PREMIUM SEVERE DUTY	NONE	FALSE	NONE	BLUE (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	CAST IRON
6206	6206						

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

If Inverter equals NONE, contact factory for further information

* N O T E S *	INVERTER TORQUE: CONSTANT 20:1
	INV. HP SPEED RANGE: NONE
	ENCODER: NONE NONE NONE NONE NONE PPR
	BRAKE: NONE NONE NONE P/N NONE NONE NONE NONE FT-LB NONE V NONE Hz

DATE: 06/27/2017 03:45:46 AM
 FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 20-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



182TTTN16571

Submittal

Data @ 460 V

Motor Load Data

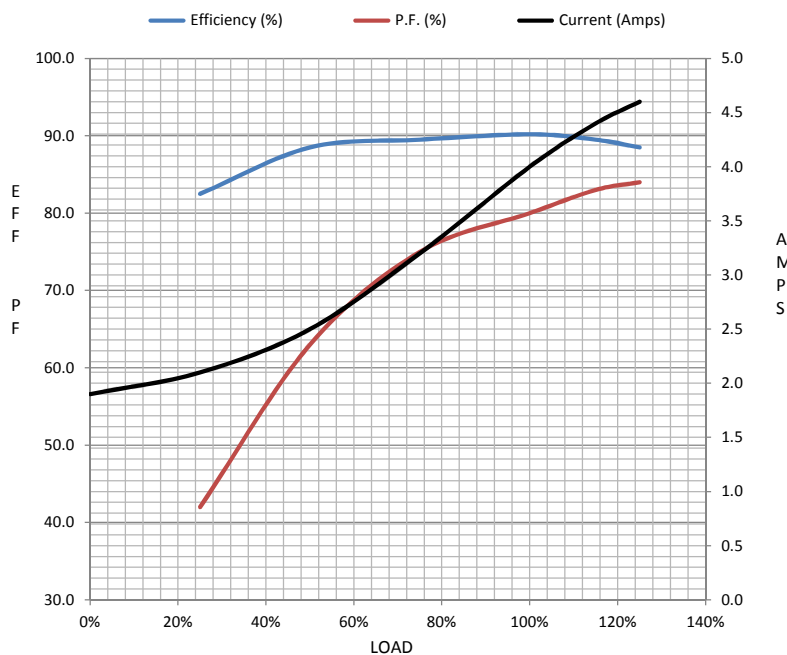
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.90	2.10	2.50	3.2	4.0	4.4	4.6	32.0	
Torque (ft-lb)	0.00	2.20	4.4	6.7	9.0	10.4	11.2	22.5	
RPM	1800	1790	1780	1770	1760	1,755	1750	0	
Efficiency (%)		82.5	88.5	89.5	90.2	89.5	88.5		
P.F. (%)	6.5	42.0	63.0	75.0	80.0	83.0	84.0	47.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	750	1500	1760	1800
Current (Amps)	32.0	30.0	23.0	4.0	1.90
Torque (ft-lb)	22.5	20.0	35.0	9.0	0.00

Information Block

HP	3.0			
Sync. RPM	1800			
Frame	182			
Enclosure	TEAO			
Construction	TTS			
Voltage	230/460#190/38(V			
Frequency	60 Hz			
Design	B			
LR Code letter	K			
Service Factor	1.15			
Temp Rise @ FL	0 ° C			
Duty	CONT AOM			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.40 Lb-Ft ²			
Ref Wdg	K1824116 R21			
Sound Pressure @ 1M	999 dBA			
VFD Rating	CONSTANT 20:1			
Outline Dwg	035670-800			
Conn. Diag	A-EE7308			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
2.3630	1.6070	5.1030	7.9380	130.4100



Speed -Torque Curve

