

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 182TTDR4113

Catalog No: U168

Close-Coupled Pump Motor, 5 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM,
182JPV Frame, DP



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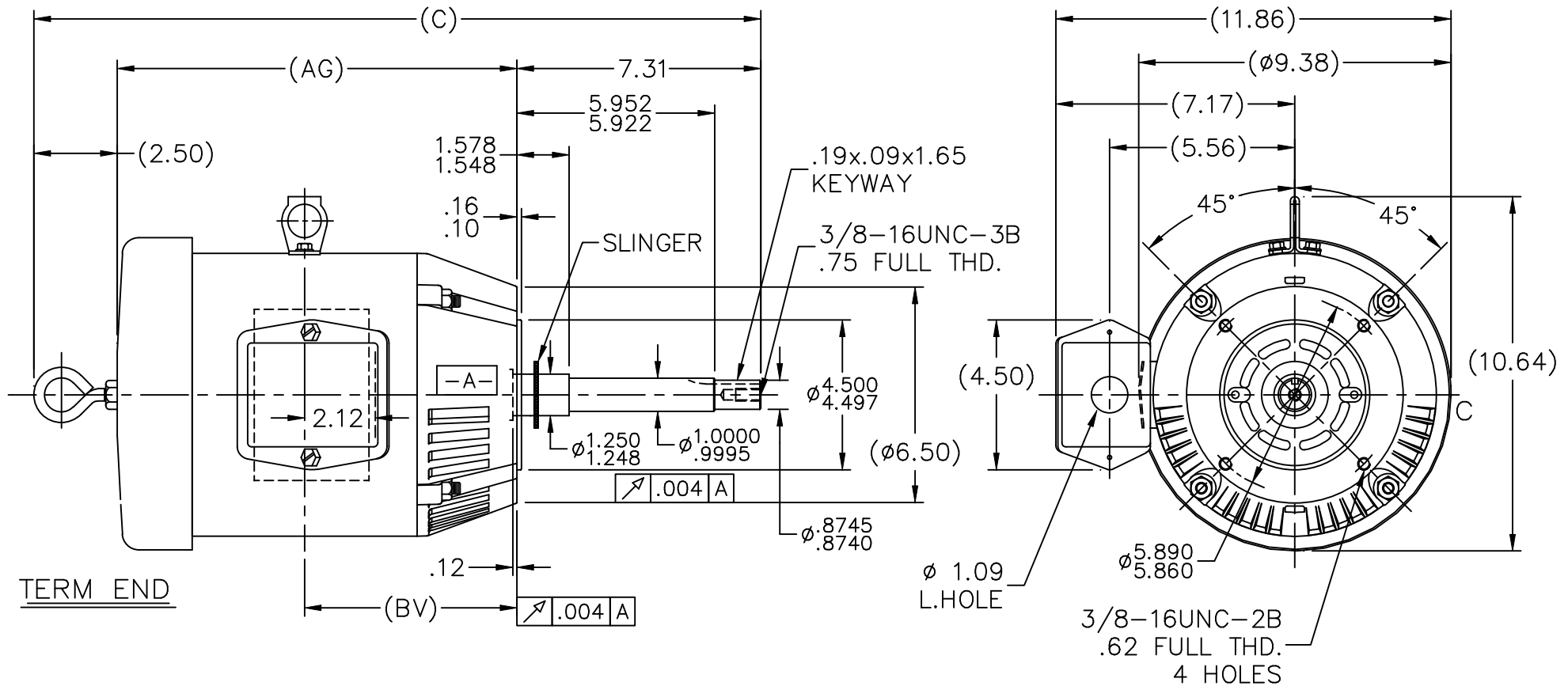
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	5 & 3 Hp
Output KW	3.7 & 2.2 kW	Voltage	230/460 & 190/380 V
Speed	3475 & 2905 rpm	Service Factor	1.15 & 1.15
Frame	182JPV	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	86.5 & 87 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	12/6 & 9.2/4.6 A	Power Factor	89
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	J
Drive End Bearing Size	6307	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	Y	IP Code	22
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Resistance Main	2.8 Ohms	Mounting	Round
Motor Orientation	Shaft Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	JP	Overall Length	21.94 in
Frame Length	6.75 in	Shaft Diameter	0.875 in
Shaft Extension	7.31 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	A-SS67319-675	Connection Drawing	A-EE7308



DASH	FR.	C	AG	BV	
575	182T	20.94	11.53	5.88	
675	182/4T	21.94	12.53	6.38	
725	182/4T	22.44	13.03	6.63	
775	182/4T	22.94	13.53	6.88	
825	182/4T	23.44	14.03	7.13	

NOTES:

- COND. BOX CAN BE ROTATED IN 90° STEPS.
- NAMEPLATE TO BE READ FROM SHAFT EXT. END OF MOTOR LOCATED @ 'C'.

NO.	REVISION	BY & DATE	CHK	ANG	± 7° 30"
8	REVISE THE 'C' DIM AND DIM. LINE LOCATION ECN9276	RWR 09-11-2006	ML	DEC.	INCHES
7	ADDED NEW LIFT LUG CN 34025	DRS 08-22-2001	.X	±.1	
6	REVISED, -675 & -775 FR. WAS 184T CN27400-320	CAE 11-02-1999	.XX	±.03	
5	ADDED MOUNTING TYPE CN 27451	DRS 05-03-1999	.XXX	±.005	
4	REDRAWN ON CADD	MH 01-31-1997	.XXXX	±.0005	

TOLERANCES UNLESS SPECIFIED	DEC.	INCHES
.X	±.1	
.XX	±.03	
.XXX	±.005	
.XXXX	±.0005	
± 7° 30"		



TITLE OUTLINE
180T FR.-BB-TS-VERT. DR.PR.-JP EXT.

MAT'L.
FINISH

DRAWN MH	01-29-1997
CHK ML	01-31-1997
APPD GK	01-31-1997
SCALE	7=32
REF	
FMF	
PREV	

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RFP
DIST LB

CAD FILE ss67319

SIZE	DRAWING NO.	PAGE	OF	REV.
A	SS67319			8



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		FMF	
					±7'30"		PREV	
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				DIST WP			A	EE7308 5

CERTIFICATION DATA SHEET

Model#: 182TTDR4113 AN
 CONN. DIAGRAM: A-EE7308
 OUTLINE: A-SS67319-675

WINDING#: K182264 NONE 6
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
5&3	3.73&2.24	3600	3475&2905	182JPV	DP	J	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	12/6&9.2/4.6	ACROSS THE LINE	CONTINUOU S	B3	1.15/1.15	40	3300

FULL LOAD EFF: 86.5&87	3/4 LOAD EFF: 87.5	1/2 LOAD EFF: 87.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 89&85.5	3/4 LOAD PF: 86	1/2 LOAD PF: 78	84	SQ CAGE IND RUN	3.2 / 1.6

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
7.5 LB-FT	92 / 46	16 LB-FT 213	23 LB-FT 307	30

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
71 dBA	81 dBA	0.24 LB-FT^2	7 LB-FT^2	15 SEC.	2	80 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	SHAFT DOWN	FALSE	NONE	TRUE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	JP	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL
6307	6205						

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
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S
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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
NONE FT-LB NONE V NONE Hz

DATE: 06/27/2017 01:35:29 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/20/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



182TTDR4113

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.60	2.50	3.5	4.7	6.0	7.0	7.7	46.0	
Torque (ft-lb)	0.00	1.90	3.7	5.6	7.5	8.7	9.5	16.0	
RPM	3600	3570	3540	3505	3475	3,445	3430	0	
Efficiency (%)		82.5	87.5	87.5	86.5	85.5	84.5		
P.F. (%)	18.0	59.0	78.0	86.0	89.0	89.0	90.0	50.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle																													
Speed (RPM)	0	1000	2950	3475	3600	Information Block																												
Current (Amps)	46.0	41.0	27.0	6.0	1.60	HP	5.0																											
Torque (ft-lb)	16.0	15.0	23.0	7.5	0.00	Sync. RPM	3600																											
<div><div>— Efficiency (%) — P.F. (%) — Current (Amps)</div><table><caption>Graph Data Points (Estimated)</caption><thead><tr><th>Load (%)</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>25</td><td>82</td><td>5.8</td><td>1.6</td></tr><tr><td>50</td><td>87</td><td>7.8</td><td>3.2</td></tr><tr><td>75</td><td>87</td><td>8.5</td><td>4.8</td></tr><tr><td>100</td><td>86</td><td>8.8</td><td>6.4</td></tr><tr><td>125</td><td>84</td><td>8.9</td><td>8.9</td></tr></tbody></table></div>						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)	25	82	5.8	1.6	50	87	7.8	3.2	75	87	8.5	4.8	100	86	8.8	6.4	125	84	8.9	8.9	Frame	182			
						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)																									
						25	82	5.8	1.6																									
						50	87	7.8	3.2																									
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						100	86	8.8	6.4																									
						125	84	8.9	8.9																									
						Enclosure	DP																											
						Construction	TDR																											
						Voltage	30/460#190/381V																											
						Frequency	60		Hz																									
						Design	B																											
						LR Code letter	J																											
						Service Factor	1.15																											
						Temp Rise @ FL	35		° C																									
						Duty	CONT																											
						Ambient	40		° C																									
						Elevation	1,000 feet																											
						Rotor/Shaft wk²	0.24		Lb-Ft²																									
						Ref Wdg	K182264 NONE																											
						Sound Pressure @ 1M	71		dBA																									
						VFD Rating	NONE																											
						Outline Dwg	A-SS67319-675																											
Conn. Diag	A-EE7308																																	
Additional Specifications:																																		
0																																		
0																																		
EQUIV CKT (OHMS / PHASE)																																		
R1	R2	X1	X2	Xm																														
1.9560	1.4060	4.7230	2.5630	133.8120																														

Speed -Torque Curve

