Inverter (Vector) Duty Motors

Model No: 182TPFRB10194
Catalog No: SY066

Inverter (Vector) Duty Motor, 3 HP, 3 Ph, 90 Hz, 230/460 V, 1800 RPM, 182TC Frame, TEFC

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Product Information Packet: Model No: 182TPFRB10194, Catalog No: SY066 Inverter (Vector) Duty Motor, 3 HP, 3 Ph, 90 Hz, 230/460 V, 1800 RPM, 182TC Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**3 Hp**
Output KW	**2.2 kW**	Voltage	**230/460 V**
Speed	**1800 r/min**	Synchronous RPM	**1800 r/min**
Service Factor	**1.00**	Frame	**182TC**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**Thermostat**
Efficiency	**91.4 %**	Ambient Temperature	**40 °C**
Frequency	**90 Hz**	Current	**6.6/3.3 A**
Power Factor	**85**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**PM**
KVA Code	**N/A**	Drive End Bearing Size	**6207**
Opp Drive End Bearing Size	**6205**	UL	**Recognized**
CSA	**Y**	CE	**N**
IP Code	**43**	Number of Speeds	**1**

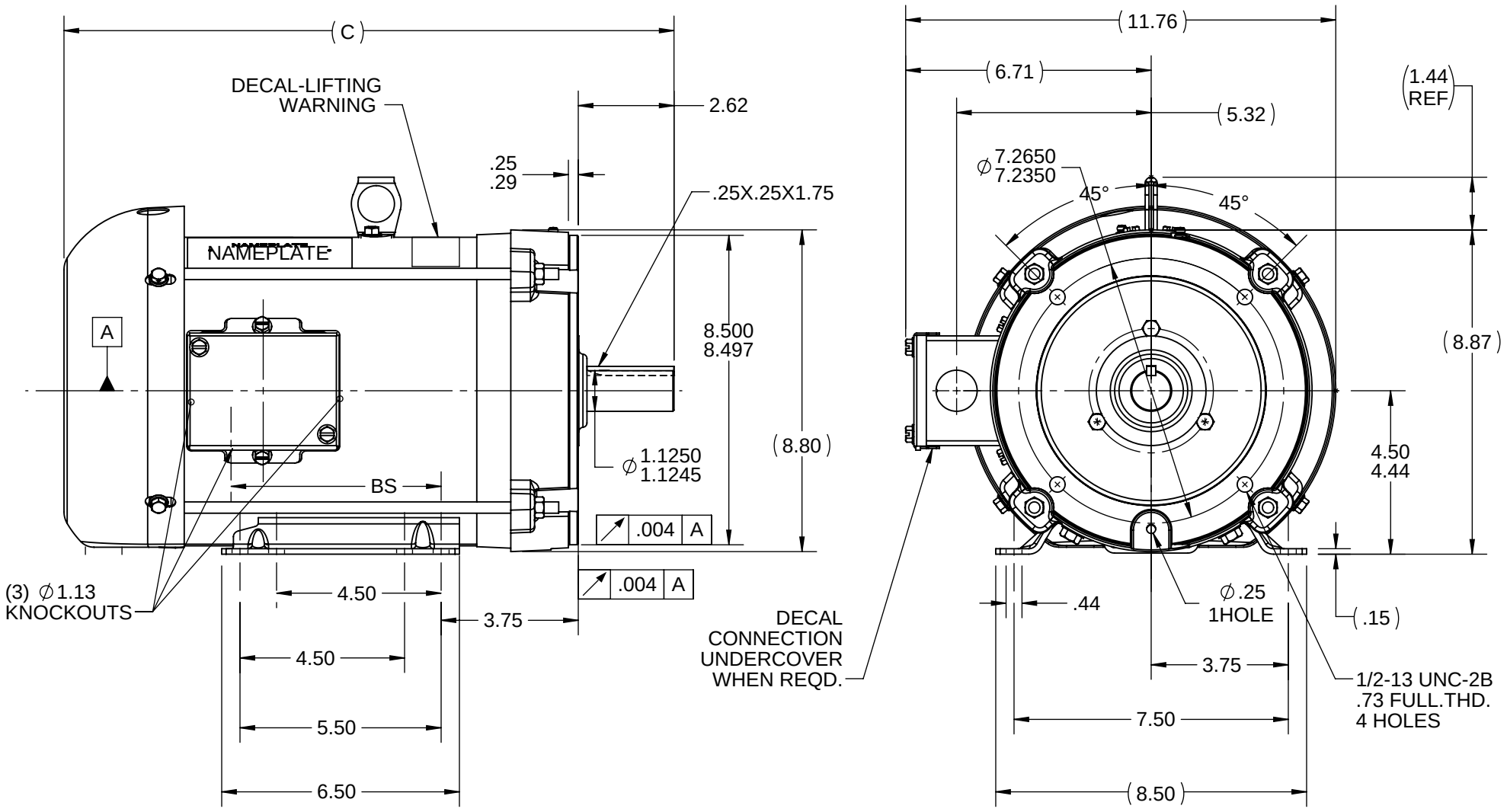
Technical Specifications

Electrical Type	**AC Permament Magnet**	Starting Method	**Inverter Only**
Poles	**6**	Rotation	**Reversible**
Resistance Main	**0 O**	Mounting	**Bolt-on Base**
Motor Orientation	**Horizontal Or Shaft Down**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Rolled Steel**
Shaft Type	**T**	Overall Length	**16.42 in**
Frame Length	**8.0 in**	Shaft Diameter	**1 1/8 in**
Shaft Extension	**2.75 in**	Assembly/Box Mounting	**F1 Only**
Inverter Load	**Constant 20:1**		

Drawings

Connection Drawing	**A-EE7308T**	Outline Drawing	**036316-800**

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DASH NO.	"C"	"BS"
750	16.18	5.25
800	16.68	5.75
850	17.18	6.25

GASKET THROUGHOUT

DRAWING REVISION	REVISION BY	REV DATE/© DATE
D	SV	05/18/2026
REQUEST NUMBER	APPROVED BY	DATE
CR-0026322	RMS	05/18/2026

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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TOLERANCES (EXCEPT AS NOTED):

DEC.	INCH	mm	ANGLE
.X	±0.1	[±3]	±7' 30"
.XX	±0.03	[±0.8]	
.XXX	±0.005	[±0.13]	
.XXXX	±0.0005	[±0.013]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45°
CORNER FILLETS: R.02 [.5]
MACHINED SURFACES: 200 INCH / 5.1 mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

DRAWN BY	SR
DATE	04/11/2017
APPROVED BY	SR
DATE	04/11/2017
REFERENCE	036225
THIRD ANGLE PROJECTION	

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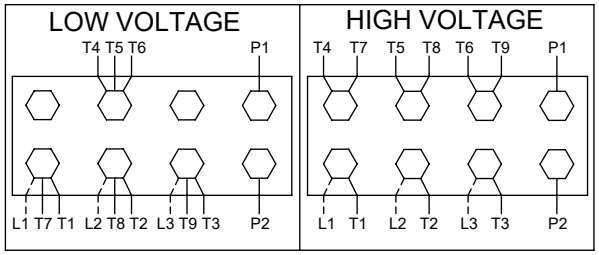
DESCRIPTION
OUTLINE
180T-FRAME TEFC BOLT ON-C_FACE-PMAC

MATERIAL	PROCESS/FINISH
-	

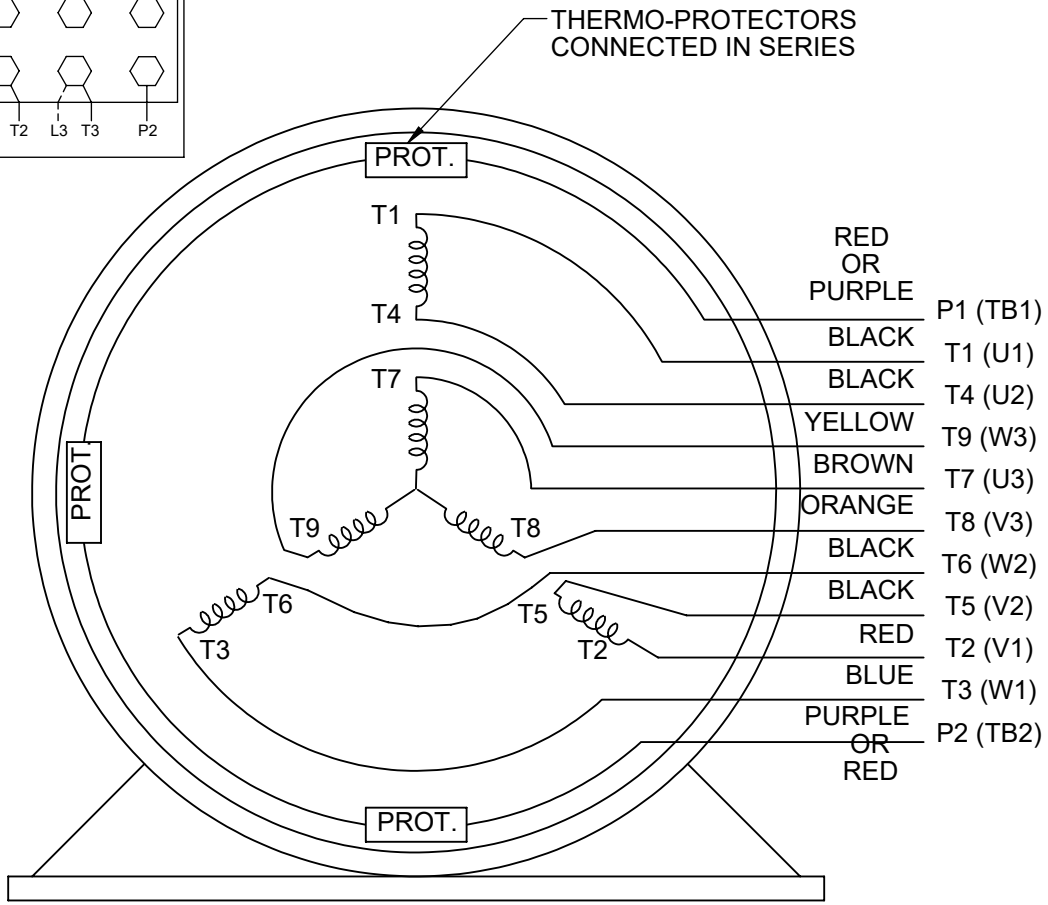
SIZE	DRAWING NUMBER	SHEET
A	036316	1 OF 1

HIGH VOLTAGE

(U1) T1 — L1
(V1) T2 — L2
(W1) T3 — L3
(U2) T4
(U3) T7
(V2) T5
(V3) T8
(W2) T6
(W3) T9



THREE PHASE
DUAL VOLTAGE MOTOR



VIEW OF TERMINAL END

NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1

LOW VOLTAGE

(U1) T1 — L1
(U3) T7 — L1
(V1) T2 — L2
(V3) T8 — L2
(W1) T3 — L3
(W3) T9 — L3
(U2) T4
(V2) T5
(W2) T6

NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR IMG PLANT

DRAWING REVISION: U	REVISION BY: SB	REV DATE/© DATE: 08/01/2025	PRIMARY DIMENSIONS ARE INCH mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY: SMC	marathon™
REQUEST NUMBER: CR-0023654	APPROVED BY: SBD	DATE: 08/01/2025		DATE: 05-13-1992	
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED				APPROVED BY: TB	DESCRIPTION: CONN DIAGRAM-EXTERNAL
				DATE: 05-13-1992	3 PHASE - DUAL VOLTAGE MOTOR
				REFERENCE: EE7308/EE7300	MATERIAL / PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE: A — DRAWING NUMBER: EE7308T — SHEET: 1 OF 1

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CERTIFICATION DATA SHEET

Model#:	182TPFRB10194 AA	**WINDING#:**	PM18406011 NONE 1
CONN. DIAGRAM:	A-EE7308T	**ASSEMBLY:**	F1 ONLY
OUTLINE:	036316-800		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3	2.24	1800	1800	182TC	TEFC	NO KVA CODE	PM

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	90	230/460	6.6/3.3	INVERTER ONLY	CONTINUOUS	F1	1.0	40	3300

FULL LOAD EFF: 91.4	3/4 LOAD EFF: 91	1/2 LOAD EFF: 89.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 85	3/4 LOAD PF: 85	1/2 LOAD PF: 85	91	AC PERMANENT MAGNET	1 / .5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
8.753 LB-FT	/	- LB-FT -	- LB-FT -	36

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
0 dBA	10 dBA	0.19 LB-FT^2	0 LB-FT^2	0 SEC.	0	75 LBS.

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	XM
0	2.84	47.8	92.9	218

RM	ZREF	XR	TD	TD0
0	1	0	0	0

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	BOLT-ON	HORIZONTAL OR SHAFT DOWN	FALSE	NONE	FALSE	NONE	BLACK (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL 6207	BALL 6205	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS 140(N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: CONSTANT 20:1
INV. HP SPEED RANGE: 1.2 X BASE SPEED

* NOTES

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

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