



Customer information packet

EFM2513T

15HP, 1765RPM, 3PH, 60HZ, 254T, 3948M, OPSB, F2

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	254T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	39.000 A @ 208.0 V 36.400 A @ 230.0 V 18.200 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part detail

Revision	P
Type	AC
Mech. spec.	39K70
Base	
Status	PRD/A
Elec. spec.	39WGY375
Layout	39LYK070
Eff. date	06-11-2024
CD Diagram	CD0180
Poles	04
Leads	9#12
Proprietary	False
Created date	10-02-2017

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	18.2 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3948M
Mounting Arrangement	F2
Number of Poles	4
Overall Length	23.19 IN
Power Factor	83
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3553L									
CAT.NO.	EFM2513T								
SPEC	39K070Y375G1								
HP	15								
VOLTS	230/460								
AMPS	36.4/18.2								
RPM	1770								
FRAME	254T		HZ	60		PH	3		
SF	1.15	CODE	J	DES	A	CLASS	F		
NEMA NOM. EFF	93	PF	83						
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPSB	SER							
DE	6309	ODE	6208						
VPWM INVERTER READY									
CT30-60(2:1) VT3-60(20:1)									

Accessories

Part number	Description	Multiplier
39-3400	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 93498

Typical performance - not guaranteed values

Winding: 39WGY375-R001		Type: 3948M		Enclosure: OPSB	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	15	Full Load Torque	44.57 LB-FT		
Volts	230/460	Start Configuration	direct on line		
Full Load Amps	36/18	Breakdown Torque	171 LB-FT		
R.P.M.	1770	Pull-up Torque	79.1 LB-FT		
Hz	60	Locked-rotor Torque	100 LB-FT		
NEMA Design Code	A	Starting Current	137 A		
Service Factor (S.F.)	1.15	No-load Current	7.62 A		
NEMA Nom. Eff.	93	Line-line Res. @ 25°C	0.5794 Ω		
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	29°C		
S.F. Amps		Temp. Rise @ S.F. Load	35°C		
		Locked-rotor Power Factor	32.8		

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	68	78	83	86	87	85
Efficiency	88.6	92.6	93.3	93.1	92.5	91.7	92.7
Speed	1794.2	1788	1781.2	1773.7	1766.3	1758.2	1769
Line amperes	8.77	11.2	14.5	18.2	22.1	26.4	20.5

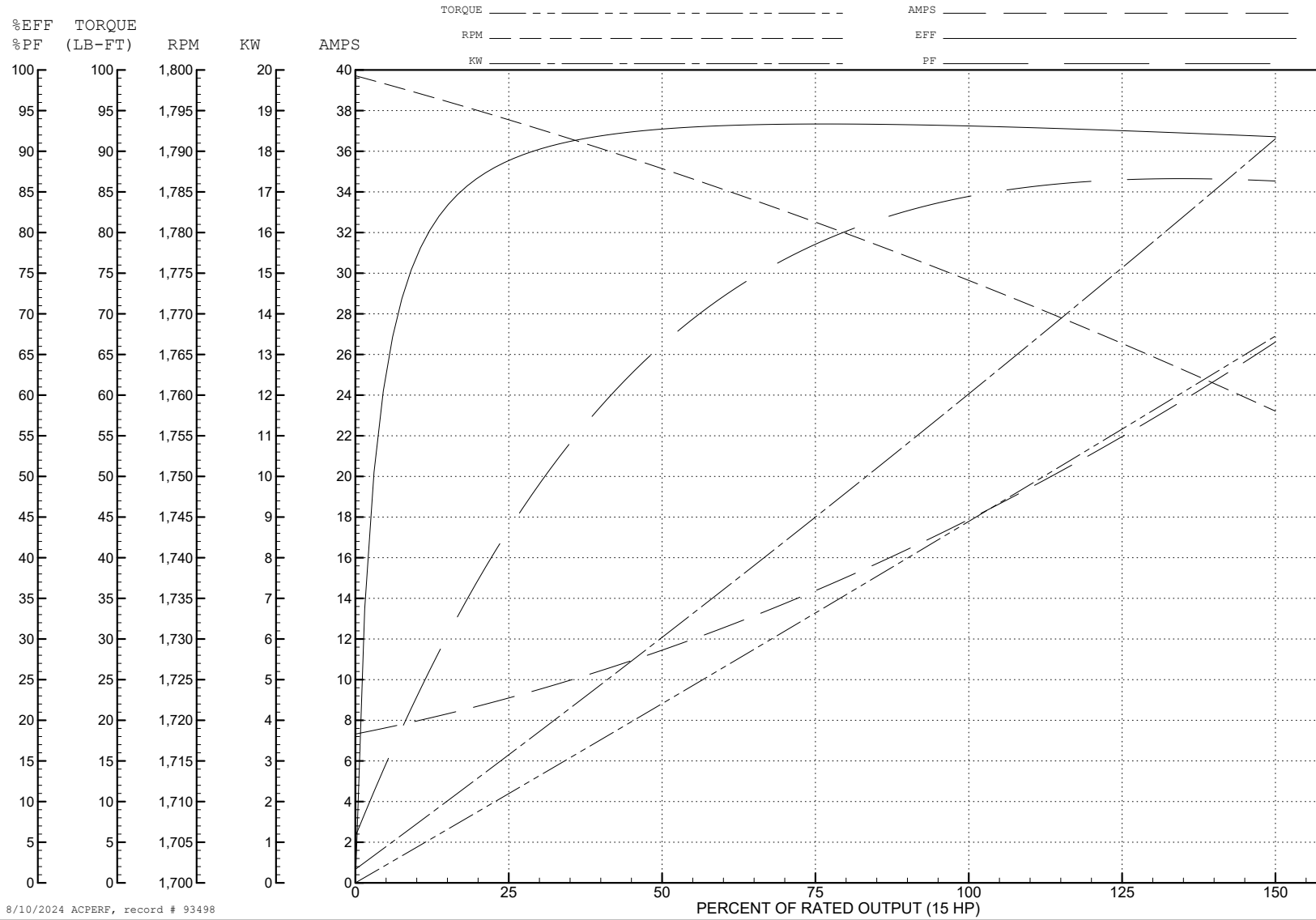
ABB Motors and Mechanical Inc.

WINDING # 39WGY375

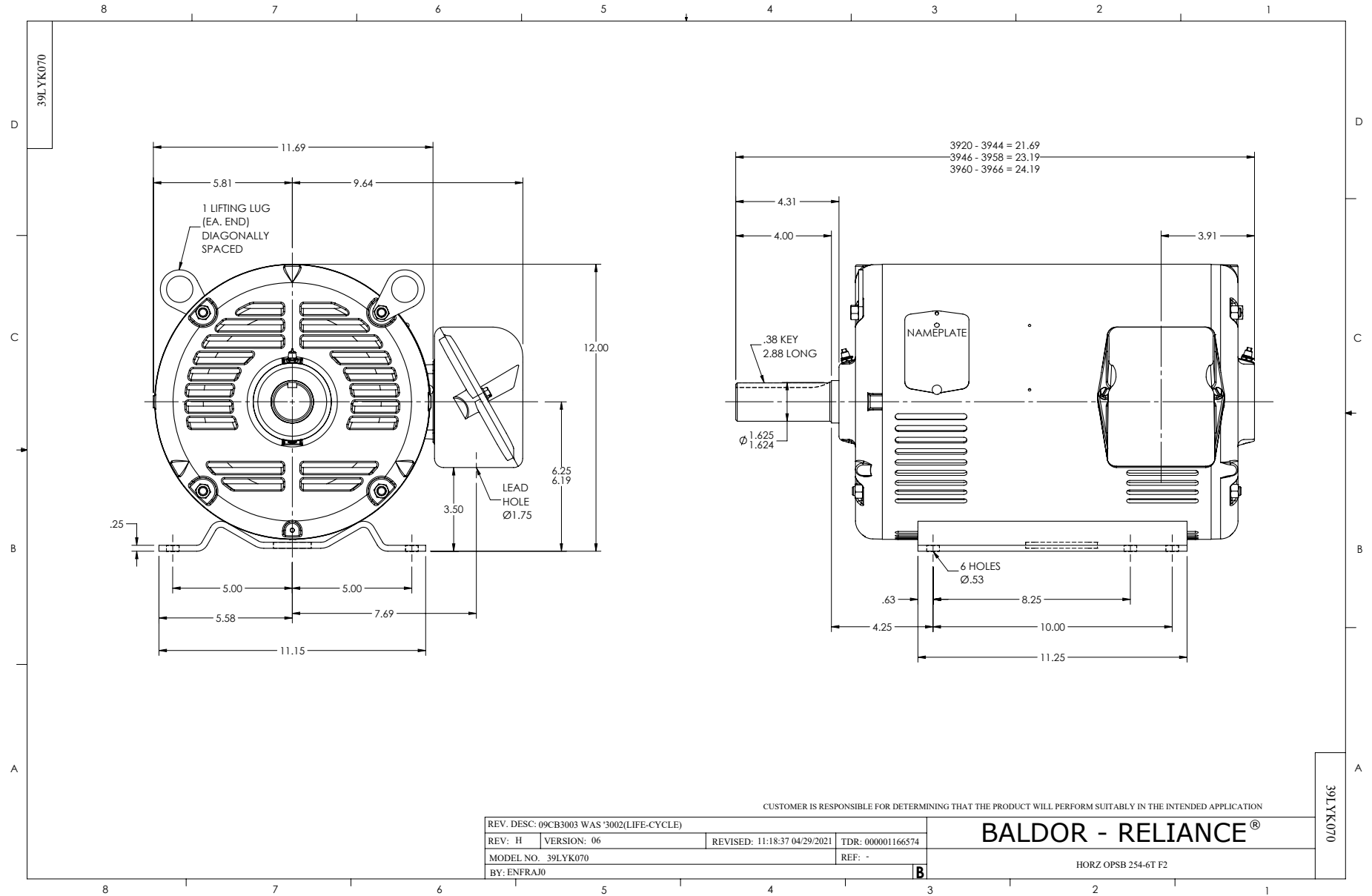
Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1770 RPM 460 V 3948M

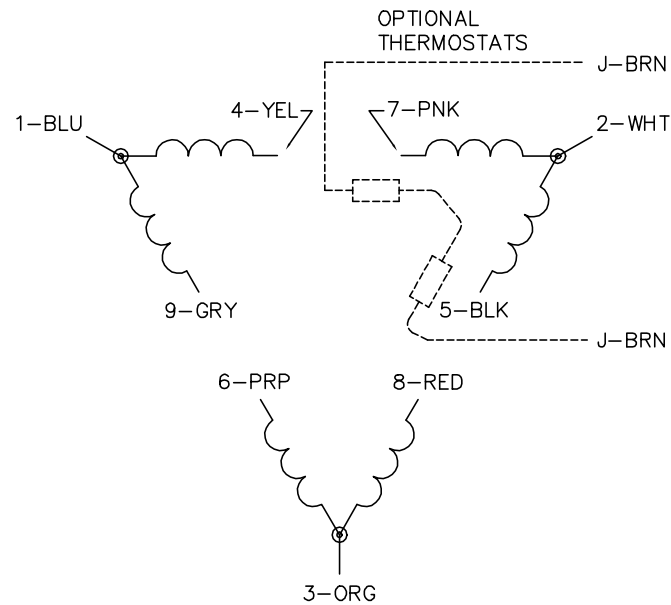
TORQUES (LB-FT): PO=171 PU=79.1 LR=100 LRA=137



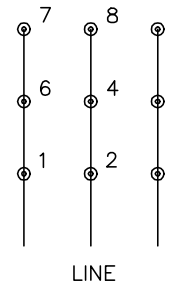
8/10/2024 ACPERF, record # 93498



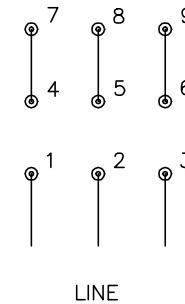
CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10: 25: 29 02/19/2019	BY: ENBRIRO
MTL: -	© □	

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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