

ABB BALDOR RELIANCE III

Customer information packet

ECTM3581T-5G

1HP, 1770RPM, 3PH, 60HZ, 143T, 0520M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	143T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM NEMA_PREMIUM UR CSA EEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.200 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	Drilled And Tapped Hole
Heater Indicator	Heater Included, 115 V
High Voltage Full Load Amps	1.2 a
Insulation Class	F

Part Detail

Revision	E
Type	AC
Mech. spec.	05G440
Base	
Status	PRD/A
Elec. spec.	05WGX567
Layout	05LYG440
Eff. date	06-08-2023
CD Diagram	CD0006
Poles	04
Leads	3#18 Y
Proprietary	False
Created date	04-19-2022

Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0520M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.82 IN
Power Factor	72
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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

NP1260														
CAT.NO.	ECTM3581T-5G													
SPEC.	05G440X567G1													
HP	1													
VOLTS	575													
AMP	1.2													
RPM	1770													
FRAME	143T	HZ		60	PH		3							
SER.F.	1.15	CODE		M	DES	B	CL	F						
NEMA-NOM-EFF	85.5	PF		72										
RATING	40C AMB-CONT													
CC														
DE	6205	ODE		6203										
ENCL	TEFC	SN												
INV DUTY 20:1 VT														

AC Induction Motor Performance Data

Record # 89183

Typical performance - not guaranteed values

Winding: 05WGX567-R001			Type: 0520M		Enclosure: TEFC	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		1	Full Load Torque		2.96 LB-FT	
Volts		575	Start Configuration		direct on line	
Full Load Amps		1.2	Breakdown Torque		11.89 LB-FT	
R.P.M.		1770	Pull-up Torque		7.42 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	9.63 LB-FT	
NEMA Design Code	B	KVA Code	M	Starting Current	10.72 A	
Service Factor (S.F.)		1.15	No-load Current		0.768 A	
NEMA Nom. Eff.	85.5	Power Factor	72	Line-line Res. @ 25°C	32.1 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		31°C	
S.F. Amps			Temp. Rise @ S.F. Load		37°C	
			Locked-rotor Power Factor		62.9842	
			Rotor inertia		0.144 lb-ft²	

Load Characteristics 575 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	51	64	72	78	82	76
Efficiency	72.5	82.2	85.1	85.4	85.1	84	85.2
Speed	1792	1784	1776	1768	1758	1748	1762
Line amperes	0.803	0.9	1.04	1.21	1.41	1.63	1.33

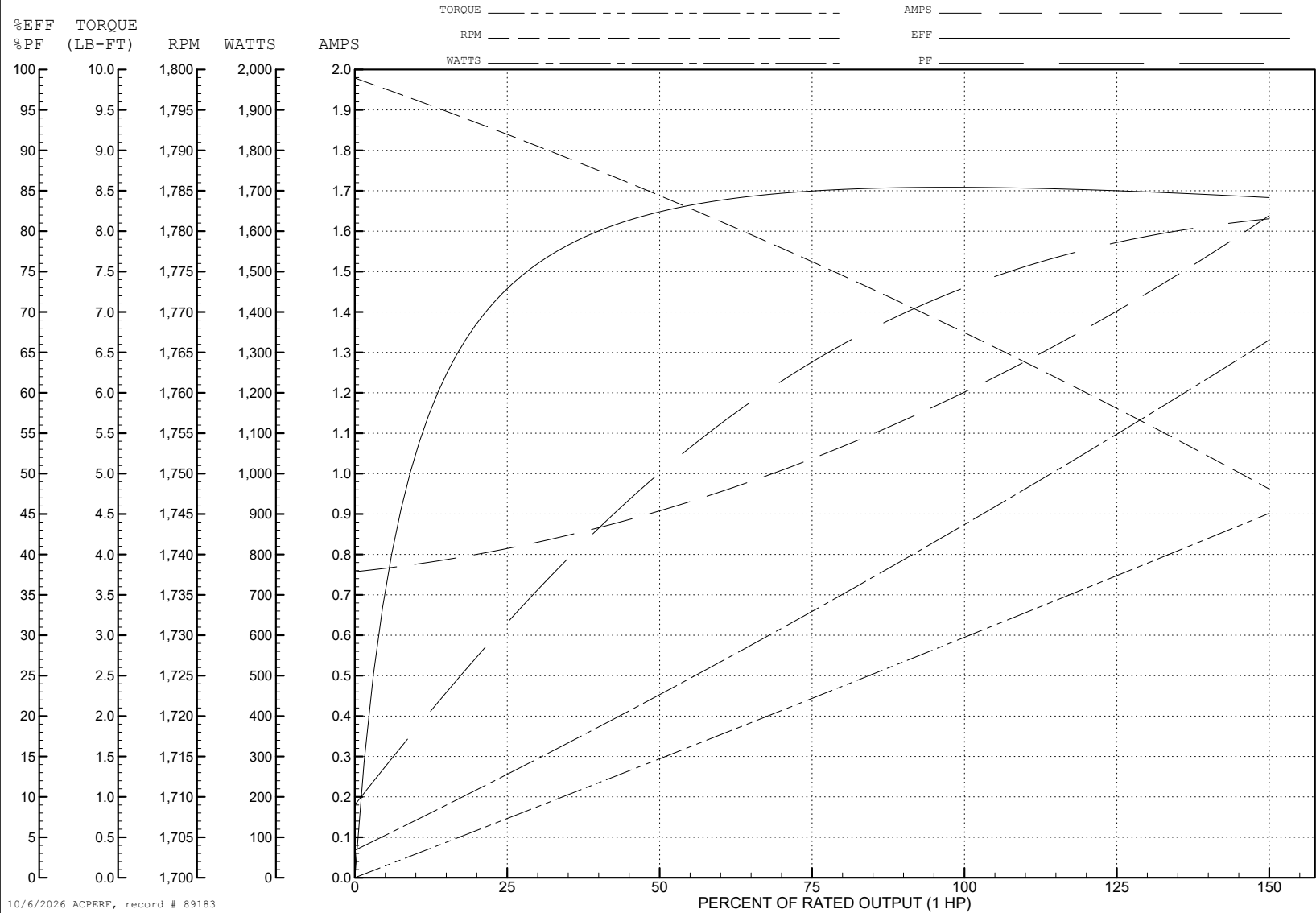
ABB Motors and Mechanical Inc.

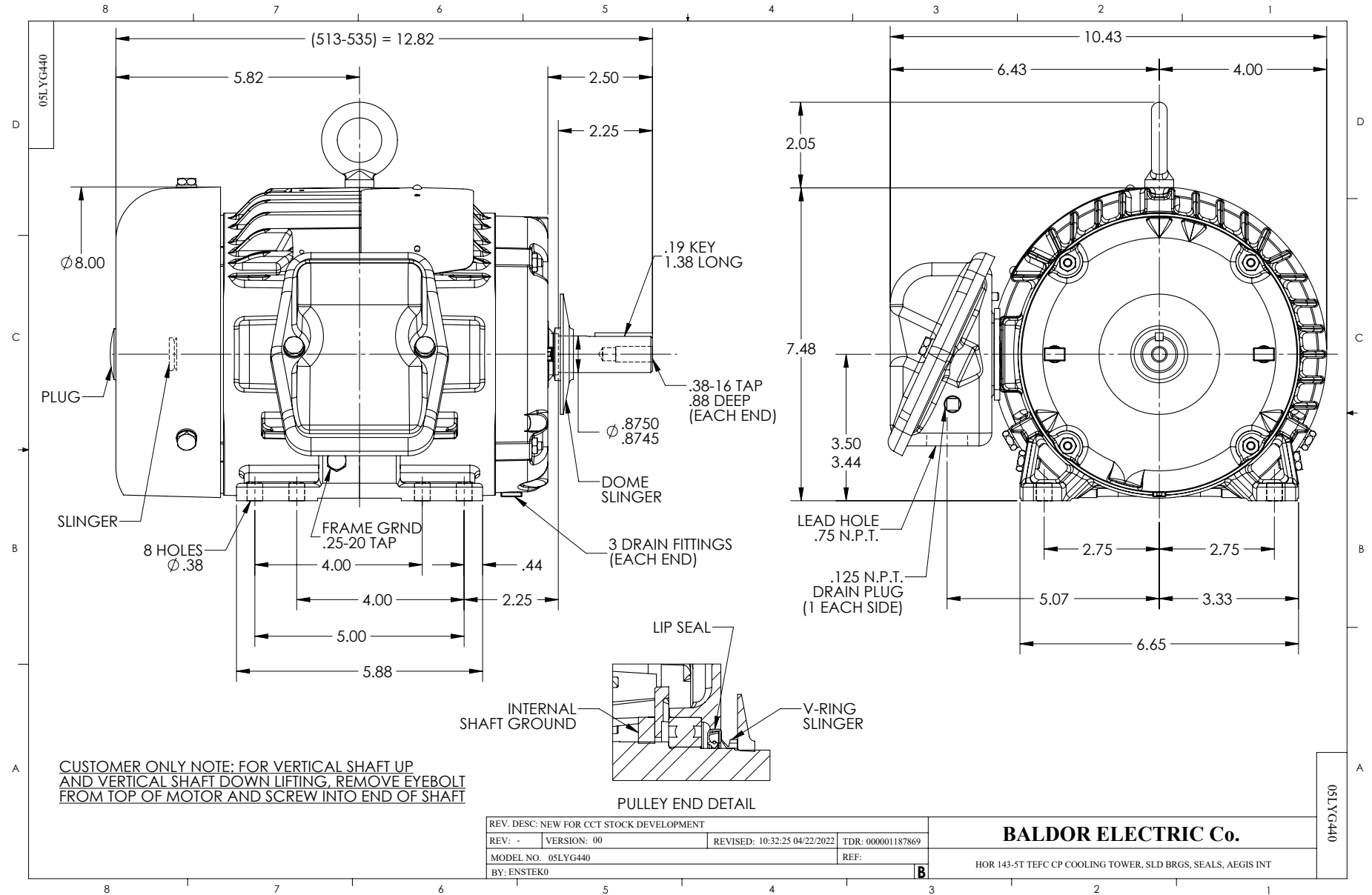
WINDING # 05WGX567

Typical performance - not guaranteed values.

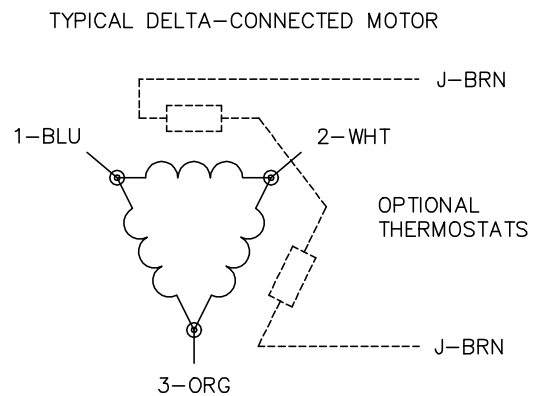
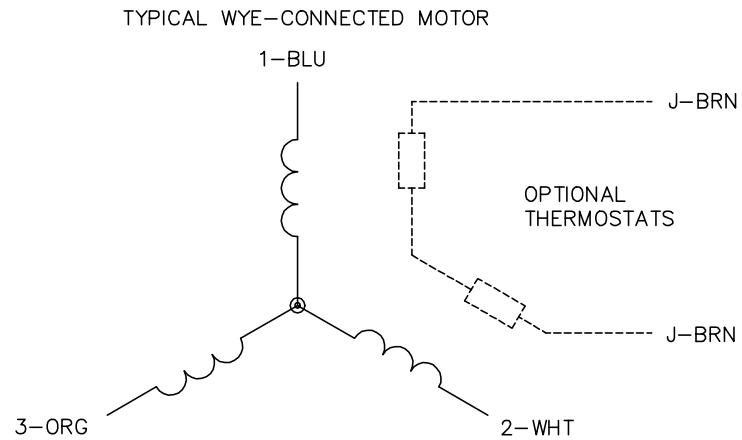
1 HP 3 PH 60 HZ 1770 RPM 575 V 0520M

TORQUES (LB-FT): PO=11.89 PU=7.42 LR=9.63 LRA=10.72





CD0006


NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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