Specifications

Enclosure	TEFC, IP56
Frame	145TC
Frame Material	Iron
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
XP Class and Group	CLI GP A,B,C,D Temp Code T3C
XP Division	Division II
Agency Approvals	CSA US CSA EEV 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
Constant Torque Speed Range	2.0
Current @ Voltage	1.700 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.7 a

Part detail

Revision	U
Type	AC
Mech. spec.	05EE943
Base	
Status	PRD/A
Elec. spec.	05WGX572
Layout	05LYEE943
Eff. date	08-27-2021
CD Diagram	CD0006
Poles	06
Leads	3#18
Proprietary	False
Created date	01-14-2014

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0526M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	13.38 IN
Power Factor	66
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1160 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

Temp Rise Code B

XP Temp Code	T4

Nameplate

NP3235								
CAT.NO.	CECP83582T-4							
SPEC.	05EE943X259G1							
HP	1 TE			**IP**	56			
VOLTS	460							
AMPS	1.7							
R.P.M.	1160							
FRAME	145TC	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	K	**DES.**	B	**CLASS**	F	
RATING	40C AMB-CONT							
SN								
DE	6205	**ODE**	6205					
NEMA NOM. EFF.	82.5	**P.F.**	66					
GUAR. MIN. EFF.	80	**CC**	010A					
T. CODE	T4	**TEMP=**	135					

NP3186							
SPEC.	05EE943X259G1						
ABMA DE BRG	25BC02X30X						
ABMA ODE BRG	25BC02X30X						
GREASE	POLYREX EM						
MOTOR WEIGHT	56	**ROTOR BARS**	27	**STATOR BARS**	36		
MAX. R.P.M.	1800	**MAX. KVAR**	0.59				
INV.TYPE	PWM						
T=	135						
CHP	60	**TO**	90				
CT	2.0	**TO**	60				
VT	-0	**TO**	60				
HTR-VOLTS	N/A	**HTR-AMPS**	N/A				
HTR-WATTS				**MAX. SPACE HEATER TEMP.**	N/A		

AC Induction Motor Performance Data
Record # 47149
Guaranteed performance

Winding: 05WGX572	**Type:** 0526M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			1	**Full Load Torque**	4.53 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			1.7	**Breakdown Torque**	14.6 LB-FT
R.P.M.			1160	**Pull-up Torque**	11.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	12 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	10.4 A
Service Factor (S.F.)			1.15	**No-load Current**	1.16 A
NEMA Nom. Eff.	82.5	**Power Factor**	66	**Line-line Res. @ 25ºC**	17.6 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	35°C
S.F. Amps			1.89	**Temp. Rise @ S.F. Load**	42°C
				Locked-rotor Power Factor	44.5
				Rotor inertia	0.155 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

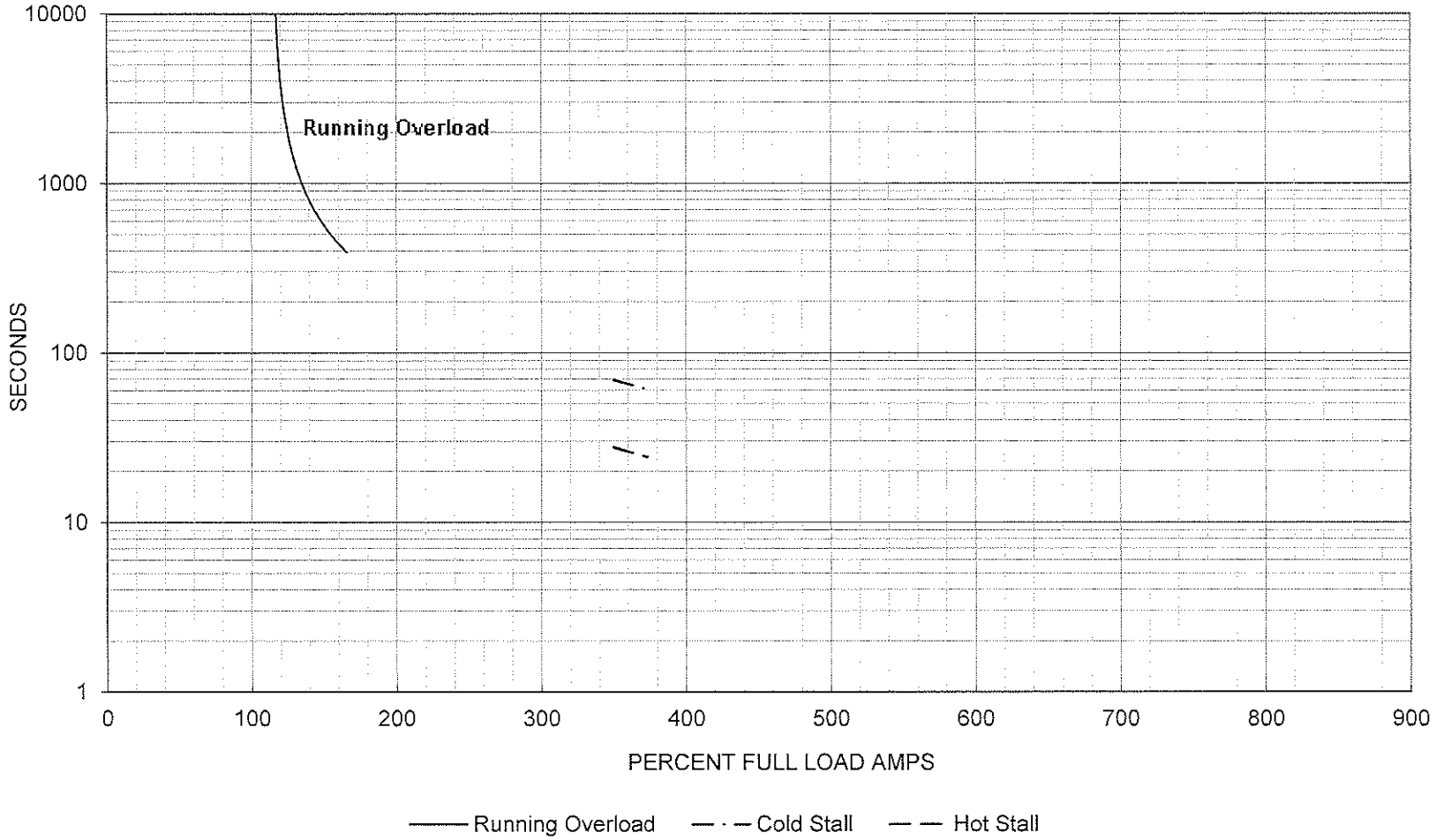
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	27	45	57	66	72	75	70
Efficiency	70.2	80	82.6	83	81.8	79.9	82.3
Speed	1192	1182	1171	1160	1146	1131	1152
Line amperes	1.19	1.31	1.49	1.72	2	2.34	1.89

THERMAL LIMIT CURVE

BALDOR • RELIANCE

05WGX572

1HP 368V 60HZ



	Safe Stall Time	Allowable Starts
Hot:	24 Sec.	3
Cold:	61 Sec.	2

NP VOLTS	460		Rated Volts	368	Stator Res @ 25C	
NP AMPS	1.7		Rated Hz	60	Ohm L-L	21.100
HP	1				Base Kva	1.22
BASE SPEED	1155		Slip Hz	2.55	Base Volts	266
PHASE/HZ	3/60		WK2 (lb-ft²)	0.189	Base Amps	1.53

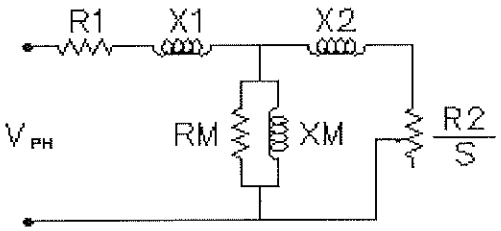
Sine Wave Data

Equivalent Circuit Data

WYE Connection, Per Phase, at 40.C

Full Load							Locked Rotor						
	Ohms	Per unit		Ohms	mH	Per unit		Ohms	Per unit		Ohms	mH	Per unit
R1	11.200	0.0644	X1	19.100	50.664	0.1098	R1	11.200	0.0644	X1	19.100	50.664	0.1098
R2	4.540	0.0261	X2	16.300	43.237	0.0937	R2	8.950	0.0514	X2	16.200	42.972	0.0931
RM	10000.000	57.4713	XM	256.000	679.061	1.4713	RM	10000.000	57.4713	Xm	256.000	679.061	1.4713

Base Ohms	174.00	Base Volts	266
SC Time Constant	0.0204	X" = Xs	35.30
OC Time Constants	0.1590	X/R Ratio	6.39



R1 = Stator Dc Resistance
R2 = Rotor Resistance, Upper Bar
RM = Core Loss Resistance
SC = Short Circuit
OC = Open Circuit

X1 = Stator Leakage Reactance
X2 = Rotor Leakage reactance, Upper Bar
XM = Magnetizing Reactance
Xs = Starting Reactance
LR = Lock-Rotor

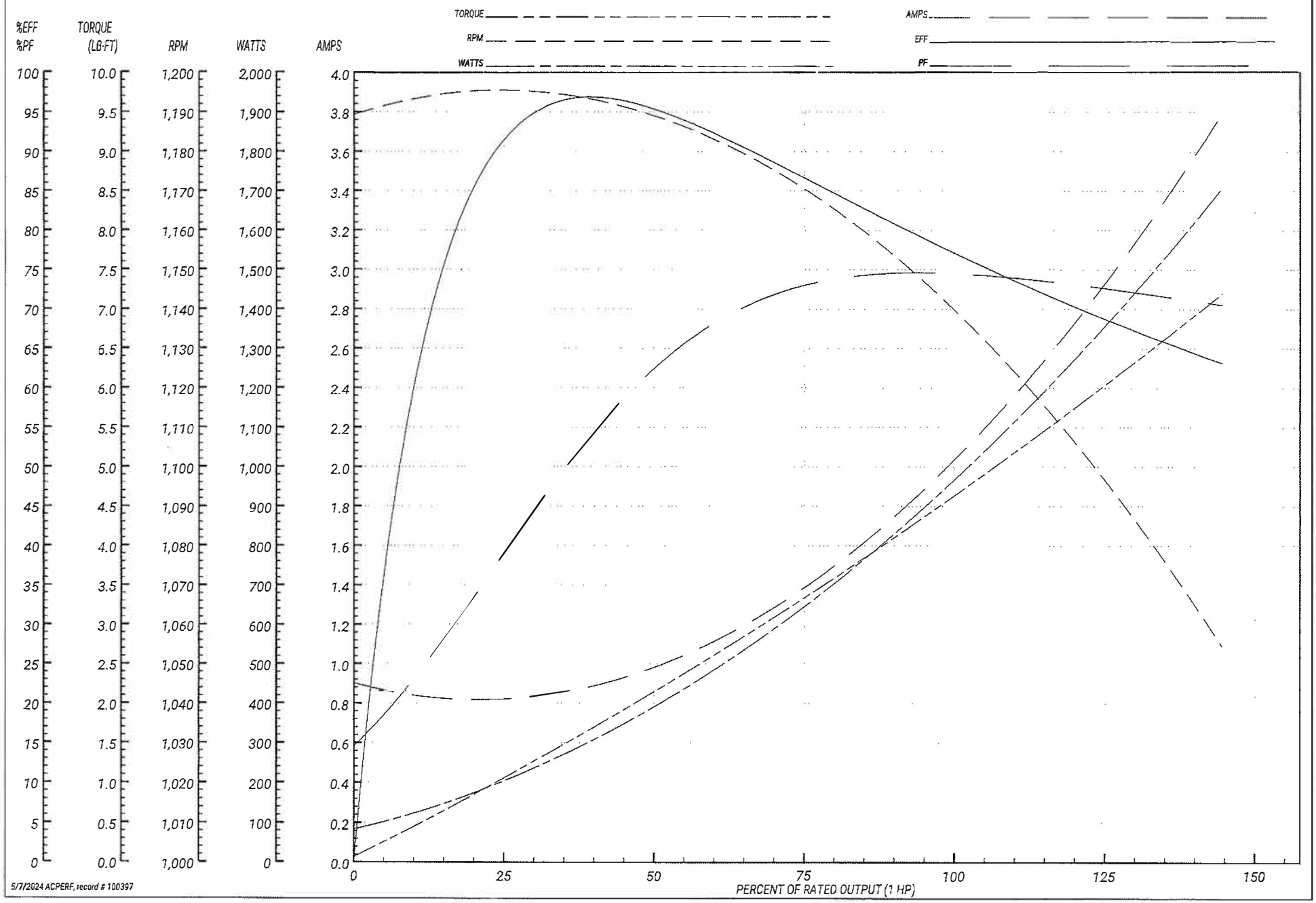
X" = Xs = Subtransient Reactance

ABB Motors and Mechanical Inc.

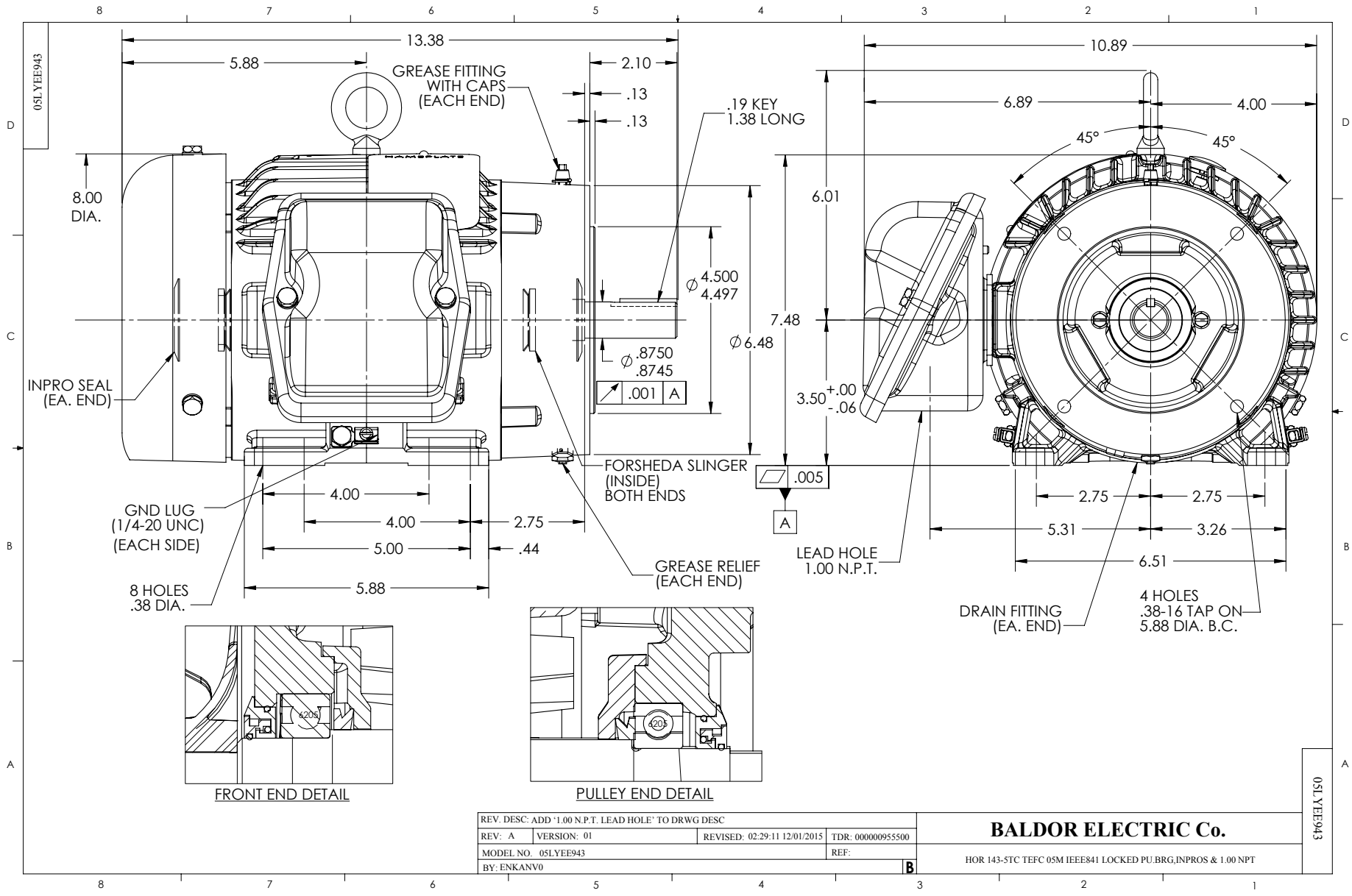
WINDING # 05WGX572

1 HP 3 PH 60 HZ 1155 RPM 368 V 0526M

TORQUES(LB-FT): PO=7.6 PU=4.5 LR=5.4 LRA=7.2



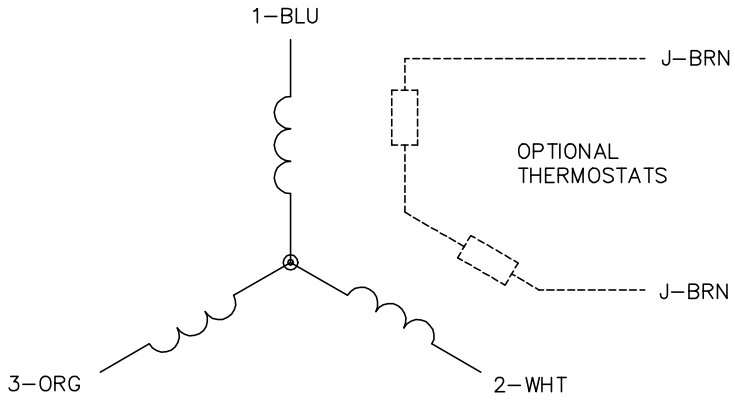
5/7/2024 ACPERF, record # 100397

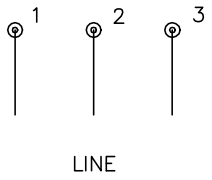


See pages 16-17 for terminal box details.
Terminal box is NEMA 4X enclosure
Terminal box can be rotated 90 degrees

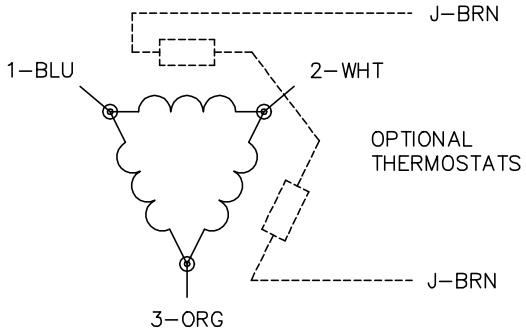
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



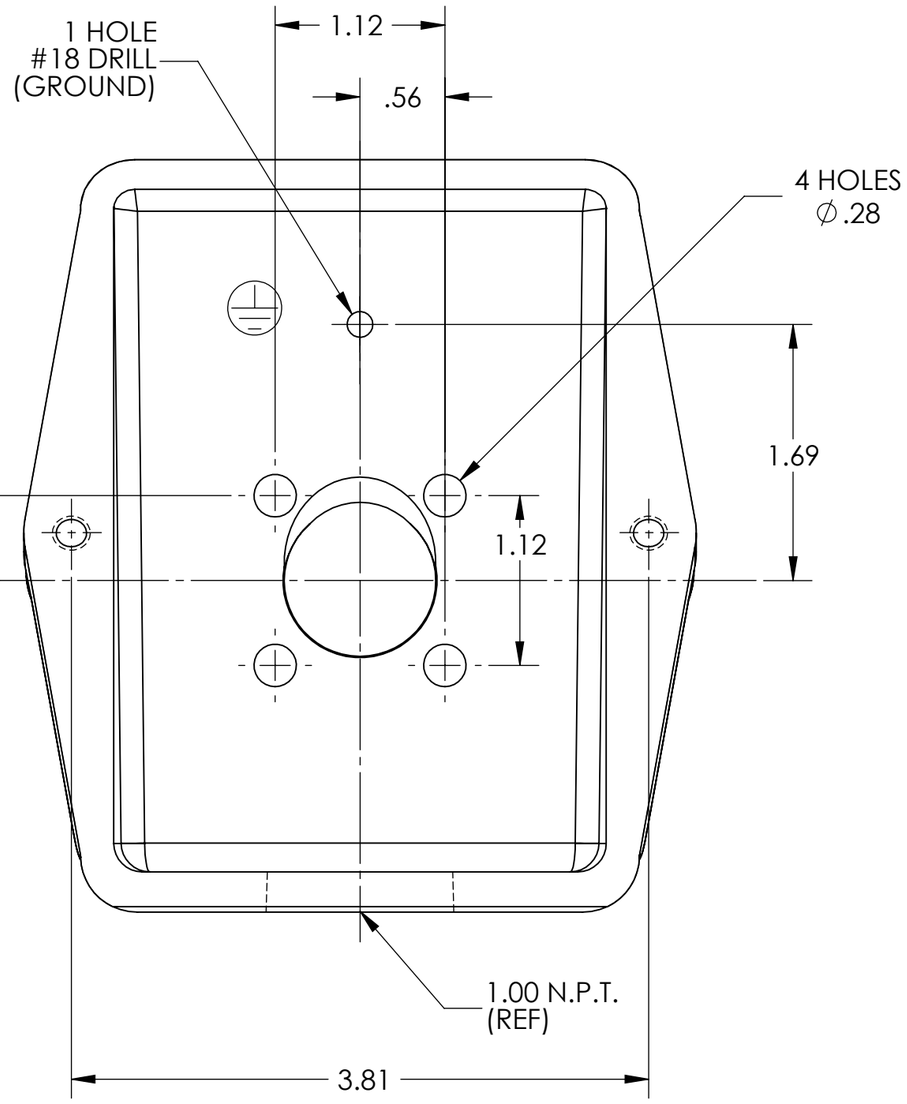
NOTES:

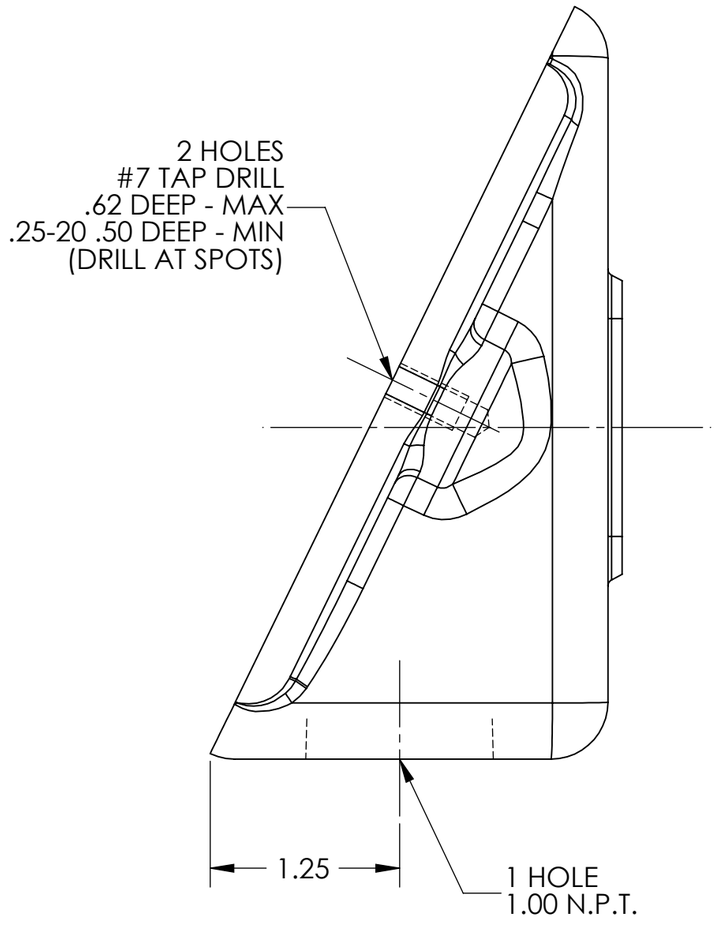
1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1

06CB1001A16





MACHINED TOL UNLESS SPEC.
.XX=±.020 .XXX=±.005
ANG=±.5° RAD=.015

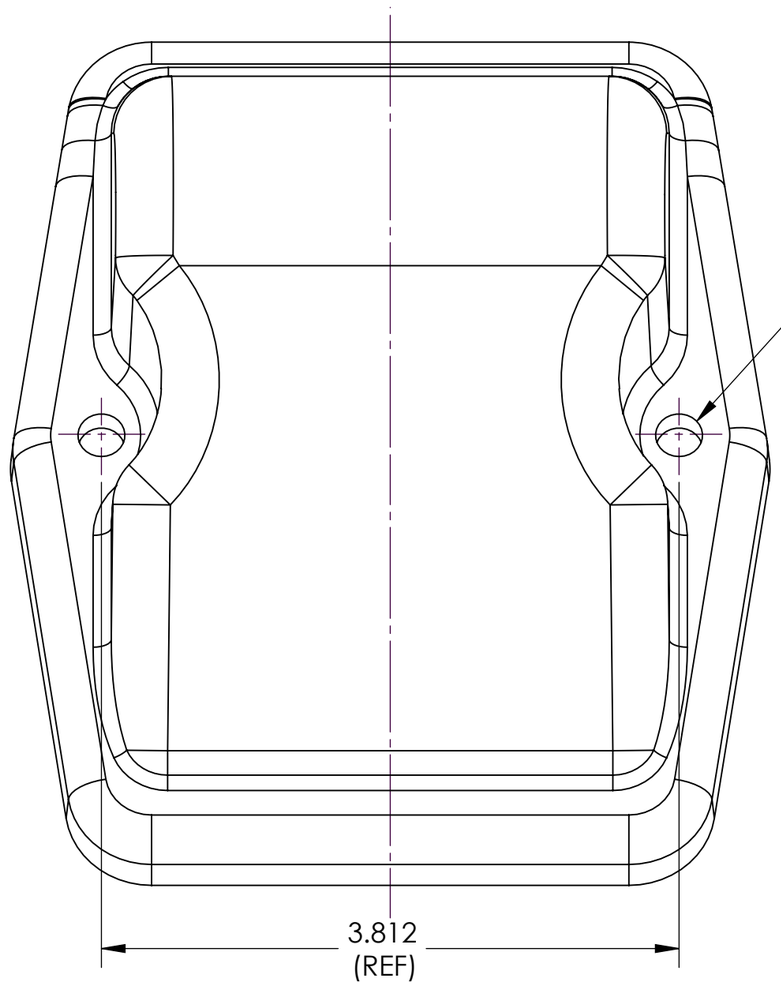
REV. DESC: LOAD TO SOLIDWORKS				
REV: A	VERSION: 01	REVISED: 02:51:43 08/10/2009	TDR: 000000508121	
MODEL NO. 06CB1001A16			REF:	
BY: ENALEM0	Material:		B	

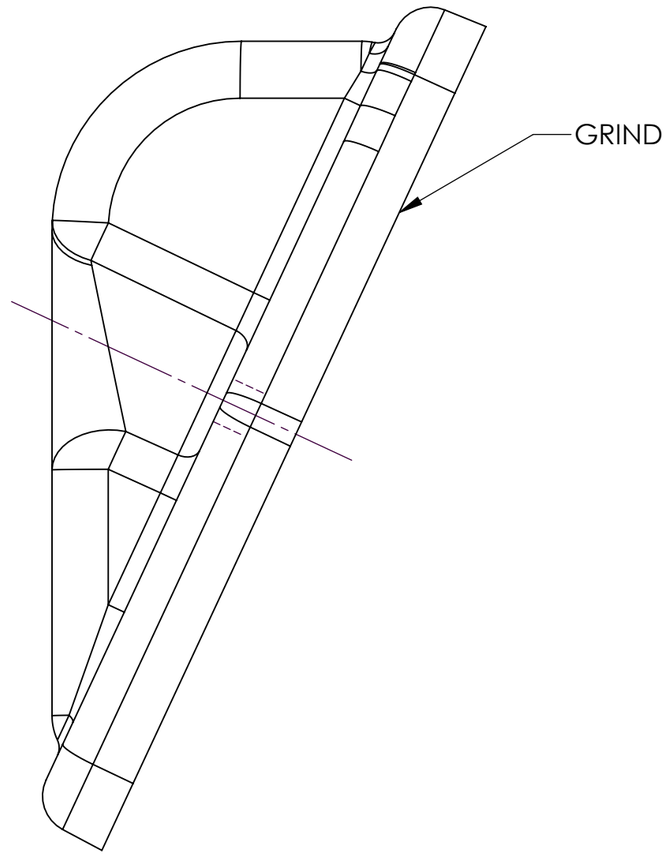
BALDOR ELECTRIC Co.

06 C.B. 1.00 N.P.T. @6, GRD SCREW

06CB1001A16

06CB1503A01





MACHINED TOL UNLESS SPEC.
.XX=±.020 .XXX=±.005
ANG=±.5° RAD=.015

REV. DESC: LOADED TO SOLIDWORKS				**BALDOR ELECTRIC Co.**
REV: A	VERSION: 01	REVISED: 03:27:38 03/30/2007	TDR: 000000426279	
MODEL NO.			REF:	06 C.B. LID W/LIP (OVERSIZE)
BY: ENDAND0	Material: MC1000-GRAY IRON, ASTM CL 20		B	

06CB1503A01

Parts

Part Number	Description	Quantity
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 EA
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 EA
51XW2520A12	SCREW, HEX SER SLT HD, ZN, 1/4-20 X .75	2.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100bx)4/22	1.000 EA