ABB BALDOR RELIANCE

Customer information packet

M3704T

3HP, 1165RPM, 3PH, 60HZ, 213T, 3728M, TEFC, F1
Class - None
Division - Not Applicable

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11/19/2026 7:08:50 AM

Specifications

Enclosure	TEFC
Frame	213T
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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
	208.0 V @ 60 HZ
Agency Approvals	CSA
	UR
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	9.900 A @ 208.0 V
	9.200 A @ 230.0 V
	4.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	L
Type	AC
Mech. spec.	37G813
Base	
Status	NLA/A
Elec. spec.	37WGT975
Layout	37LYG813
Eff. date	03-08-2016
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	09-06-2005

Heater Indicator	No Heater
High Voltage Full Load Amps	4.6 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3728M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	17.89 IN
Power Factor	69
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	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1165 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

NP1256L								
CAT.NO.	M3704T							
SPEC.	37G813T975H1							
HP	3							
VOLTS	208-230/460							
AMP	9.9-9.2/4.6							
RPM	1165							
FRAME	213T	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	K	**DES**	B	**CLASS**	F	
NEMA-NOM-EFF	87.5	**PF**	69					
RATING	40C AMB-CONT							
CC	010A							
DE	6307	**ODE**	6206					
ENCL	TEFC	**SN**						

Accessories

Part number	Description	Multiplier
37-1304	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 37156
Typical performance - not guaranteed values

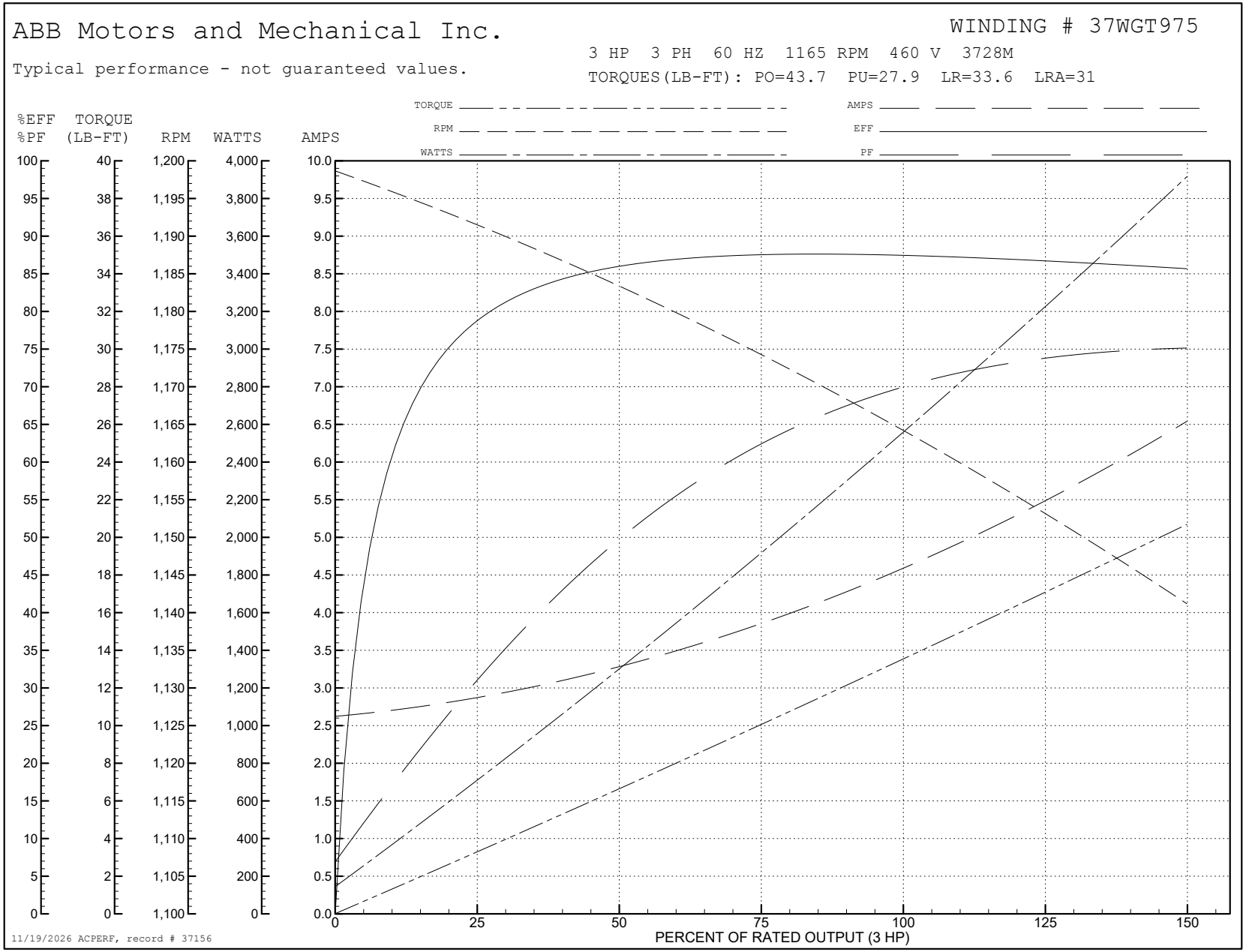
Winding: 37WGT975-R012	**Type:** 3728M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			3//2
Volts			230/460//190/380
Full Load Amps			9.2/4.6//8.2/4.1
R.P.M.			1165//970
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	87.5	**Power Factor**	69
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	13.5 LB-FT
Start Configuration	direct on line
Breakdown Torque	43.7 LB-FT
Pull-up Torque	27.9 LB-FT
Locked-rotor Torque	33.6 LB-FT
Starting Current	31 A
No-load Current	2.66 A
Line-line Res. @ 25ºC	3.48 Ω
Temp. Rise @ Rated Load	47°C
Temp. Rise @ S.F. Load	56°C
Locked-rotor Power Factor	25
Rotor inertia	0.696 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	51	62	69	73	76	71
Efficiency	78.1	85.6	87.9	87.4	87	85.6	87.2
Speed	1191	1183	1174	1165	1153	1141	1158
Line amperes	2.84	3.25	3.86	4.64	5.51	6.51	5.16


ABB Motors and Mechanical Inc.
WINDING # 37WGT975
3 HP 3 PH 60 HZ 1165 RPM 460 V 3728M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=43.7 PU=27.9 LR=33.6 LRA=31
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/19/2026 ACPERF, record # 37156

AC Induction Motor Performance Data
Record # 37157
Typical performance - not guaranteed values

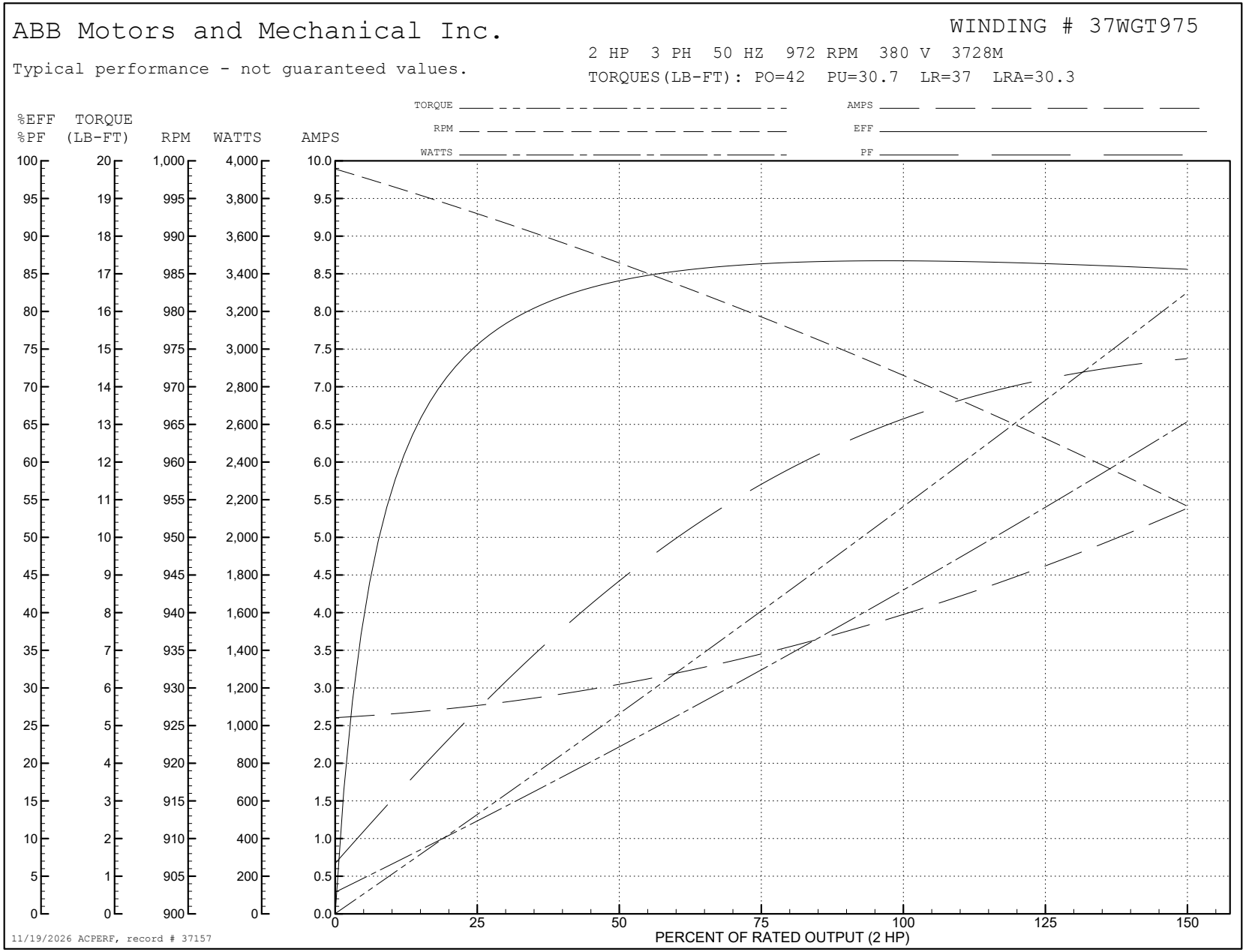
Winding: 37WGT975-R012	**Type:** 3728M	**Enclosure:** XPFC

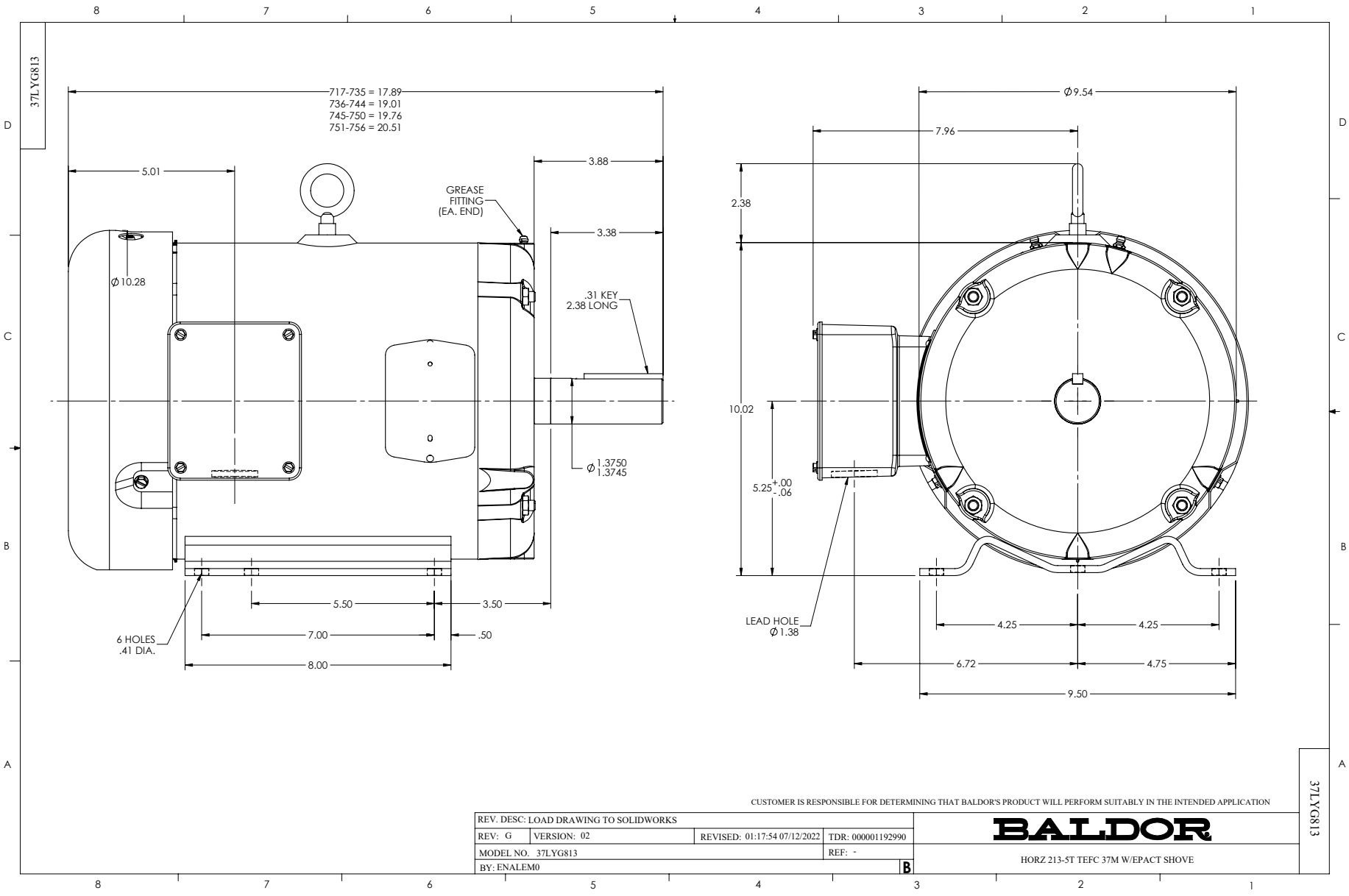
Nameplate Data			
Rated Output (HP)			3//2
Volts			230/460//190/380
Full Load Amps			9.2/4.6//8.2/4.1
R.P.M.			1165//970
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	87.5	**Power Factor**	69
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	10.8 LB-FT
Start Configuration	direct on line
Breakdown Torque	42 LB-FT
Pull-up Torque	30.7 LB-FT
Locked-rotor Torque	37 LB-FT
Starting Current	30.3 A
No-load Current	2.63 A
Line-line Res. @ 25ºC	3.48 Ω
Temp. Rise @ Rated Load	37°C
Temp. Rise @ S.F. Load	44°C
Locked-rotor Power Factor	29
Rotor inertia	0.696 LB-FT2

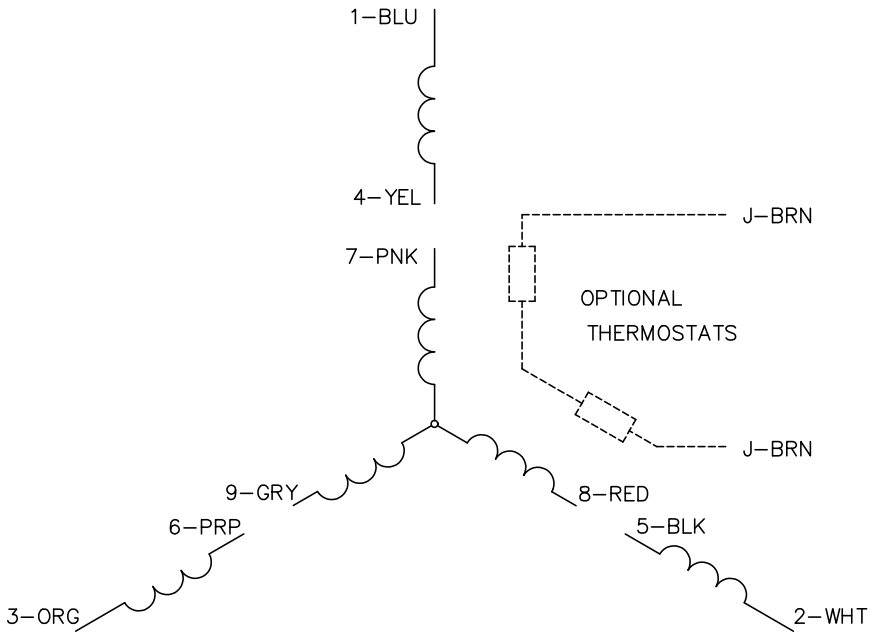
Load Characteristics 380 V, 50 Hz, 2 HP

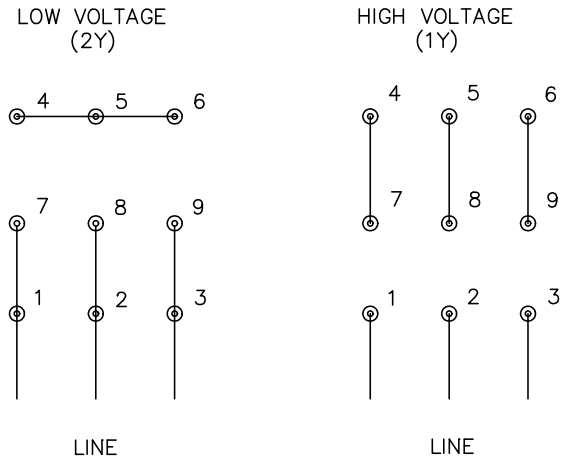
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	28	45	57	65	71	74	69
Efficiency	75.2	83.7	86.6	86.7	86.8	85.4	86.8
Speed	993	986	979	972	963	954	967
Line amperes	2.75	3.02	3.45	4.02	4.65	5.36	4.4


ABB Motors and Mechanical Inc.
WINDING # 37WGT975
2 HP 3 PH 50 HZ 972 RPM 380 V 3728M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=42 PU=30.7 LR=37 LRA=30.3
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2 HP)
11/19/2026 ACPERF, record # 37157


37LYG813
717-735 = 17.89
736-744 = 19.01
745-750 = 19.76
751-756 = 20.51
5.01
3.88
GREASE FITTING (EA. END)
3.38
Ø10.28
.31 KEY
2.38 LONG
Ø 1.3750
1.3745
5.50
3.50
7.00
.50
8.00
6 HOLES
.41 DIA.
Ø9.54
7.96
2.38
10.02
5.25 +.00 -.06
LEAD HOLE
Ø 1.38
4.25
4.25
6.72
4.75
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: G
VERSION: 02
REVISED: 01:17:54 07/12/2022
TDR: 000001192990
MODEL NO. 37LYG813
REF: -
BY: ENALEM0
B
BALDOR
HORZ 213-5T TEFC 37M W/EPACT SHOVE
37LYG813

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS