ABB BALDOR RELIANCE

Customer information packet

37Q179T859G1

7.5HP, 1770RPM, 3PH, 60HZ, 213TZ, 3736M, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	213TZ
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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	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	21.000 A @ 208.0 V
	9.400 A @ 460.0 V
	18.800 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	G
Type	AC
Mech. spec.	37Q179
Base	
Status	PRD/A
Elec. spec.	37WGT859
Layout	37LYQ179
Eff. date	02-11-2026
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	03-22-2017

Heater Indicator	No Heater
High Voltage Full Load Amps	9.4 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	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	3736M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.03 IN
Power Factor	81
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	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

NP1259L											
CAT.NO.											
SPEC.	37Q179T859G1										
HP	7.5										
VOLTS	230/460										
AMP	18.8/9.4										
RPM	1770										
FRAME	213TZ	**HZ**	60				**PH**	3			
SER.F.	1.15	**CODE**	J	**DES**	A	**CL**	F				
NEMA-NOM-EFF	91.7	**PF**	81								
RATING	40C AMB-CONT										
CC	010A										
DE	6208		**ODE**	6206							
ENCL	TEFC	**SN**									
	1-2-2214-3044										

AC Induction Motor Performance Data
Record # 17797
Typical performance - not guaranteed values

Winding: 37WGT859-R001	**Type:** 3736M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	22.4 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			18.8/9.4	**Breakdown Torque**	69.2 LB-FT
R.P.M.			1770	**Pull-up Torque**	36.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	41.1 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	70.1 A
Service Factor (S.F.)			1.15	**No-load Current**	4.4 A
NEMA Nom. Eff.	91.7	**Power Factor**	81	**Line-line Res. @ 25ºC**	1.37 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	53°C
S.F. Amps				**Temp. Rise @ S.F. Load**	65°C
				Locked-rotor Power Factor	37
				Rotor inertia	0.885 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	41	63	75	81	84	85	83
Efficiency	88.6	92.2	92.7	92.2	91.3	90.1	91.7
Speed	1793	1786	1778	1770	1761	1751	1765
Line amperes	4.88	6.08	7.59	9.49	11.5	13.8	10.7

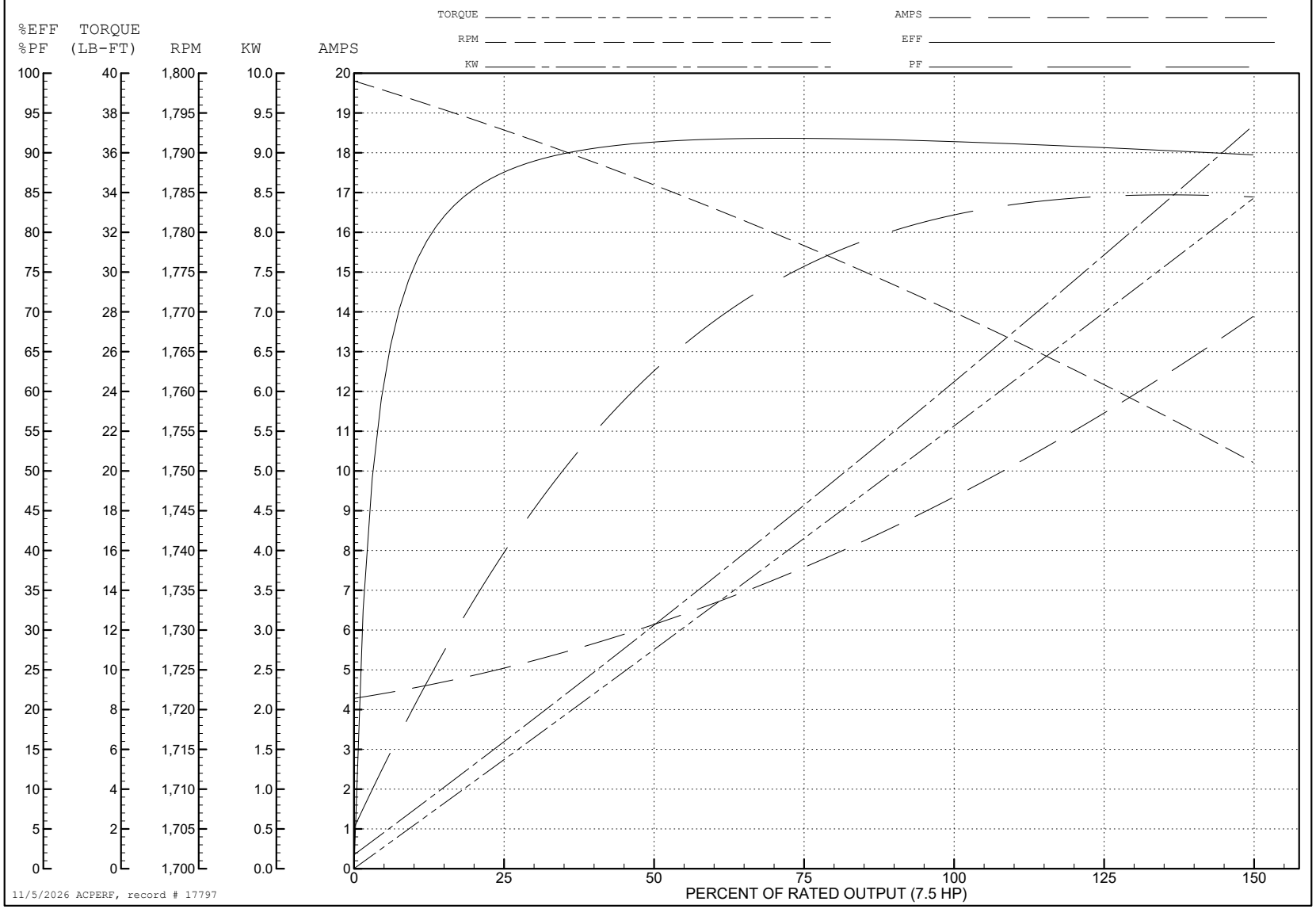
ABB Motors and Mechanical Inc.

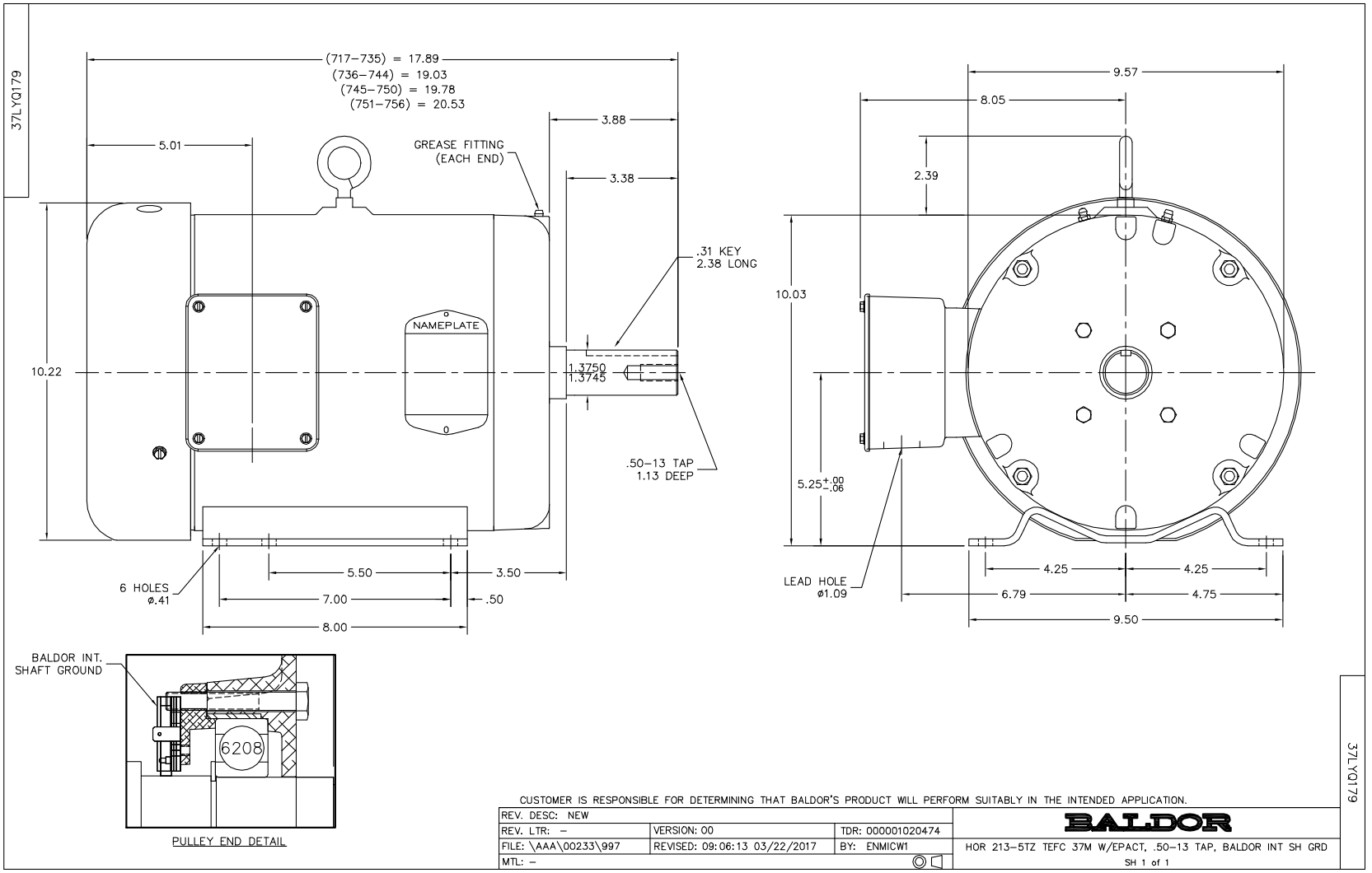
WINDING # 37WGT859

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 3736M

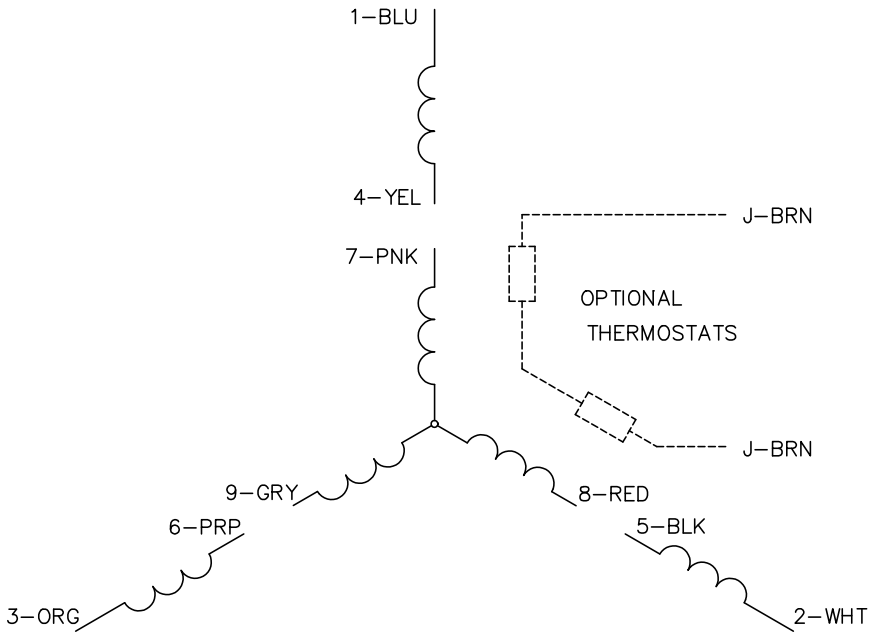
Typical performance - not guaranteed values.

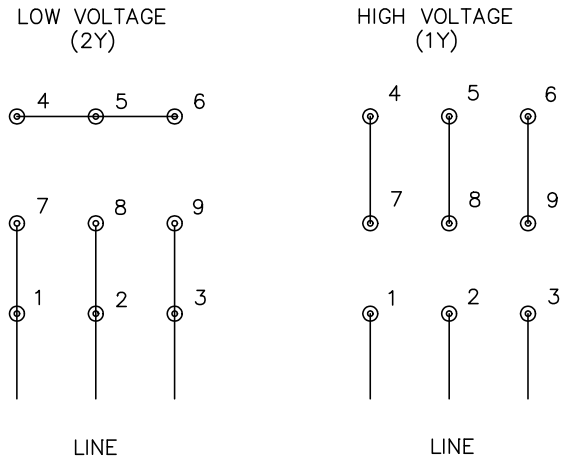
TORQUES(LB-FT): PO=69.2 PU=36.1 LR=41.1 LRA=70.1




37LYQ179
(717–735) = 17.89
(736–744) = 19.03
(745–750) = 19.78
(751–756) = 20.53
3.88
5.01
GREASE FITTING
(EACH END)
3.38
.31 KEY
2.38 LONG
NAMEPLATE
10.22
1.3750
1.3745
.50–13 TAP
1.13 DEEP
6 HOLES
ø.41
5.50
3.50
7.00
.50
8.00
9.57
8.05
2.39
10.03
5.25 +.00 −.06
LEAD HOLE
ø1.09
4.25
4.25
6.79
4.75
9.50
BALDOR INT.
SHAFT GROUND
6208
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: NEW
REV. LTR: –
VERSION: 00
TDR: 000001020474
FILE: \AAA\00233\997
REVISED: 09:06:13 03/22/2017
BY: ENMICW1
MTL: –
BALDOR
HOR 213–5TZ TEFC 37M W/EPACT, .50–13 TAP, BALDOR INT SH GRD
SH 1 of 1
37LYQ179

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