ABB BALDOR RELIANCE

Customer information packet

VM3770T

7.5HP, 1765RPM, 3PH, 60HZ, 213TC, 0730M, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	213TC
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	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
	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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	22.300 A @ 208.0 V
	20.600 A @ 230.0 V
	10.300 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
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.	07C153
Base	
Status	NLA/A
Elec. spec.	07WGX835
Layout	07LYC153
Eff. date	03-08-2016
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	11-26-2007

Heater Indicator	No Heater
High Voltage Full Load Amps	10.3 a
Insulation Class	F
Inverter Code	Not Inverter
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	0730M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.25 IN
Power Factor	76
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
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	1765 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	NONE (OLD)
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2	None

Nameplate

NP1256L								
CAT.NO.	VM3770T							
SPEC.	07C153X835H1							
HP	7.5							
VOLTS	208-230/460							
AMP	22.3-20.6/10.3							
RPM	1765							
FRAME	213TC	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	J	**DES**	A	**CLASS**	F	
NEMA-NOM-EFF	89.5	**PF**	76					
RATING	40C AMB-CONT							
CC	010A							
DE	6307	**ODE**	6206					
ENCL	TEFC	**SN**						

AC Induction Motor Performance Data
Record # 49640
Typical performance - not guaranteed values

Winding: 07WGX835-R020	**Type:** 0730M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			7.5//5
Volts			230/460//190/380
Full Load Amps			20.6/10.3//17.8/8.9
R.P.M.			1765//1470
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	J
Service Factor (S.F.)			1
NEMA Nom. Eff.	89.5	**Power Factor**	76
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	22.23 LB-FT
Start Configuration	direct on line
Breakdown Torque	71.56 LB-FT
Pull-up Torque	31.54 LB-FT
Locked-rotor Torque	47.06 LB-FT
Starting Current	72.23 A
No-load Current	5.28 A
Line-line Res. @ 25ºC	1.5 Ω
Temp. Rise @ Rated Load	65°C
Locked-rotor Power Factor	39.7
Rotor inertia	0.738 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	37	59	71	77	80	83
Efficiency	79.8	87.3	89.4	90.2	89.3	87.6
Speed	1792	1785	1776	1767	1757	1746
Line amperes	5.63	6.7	8.25	10.09	12.14	14.42

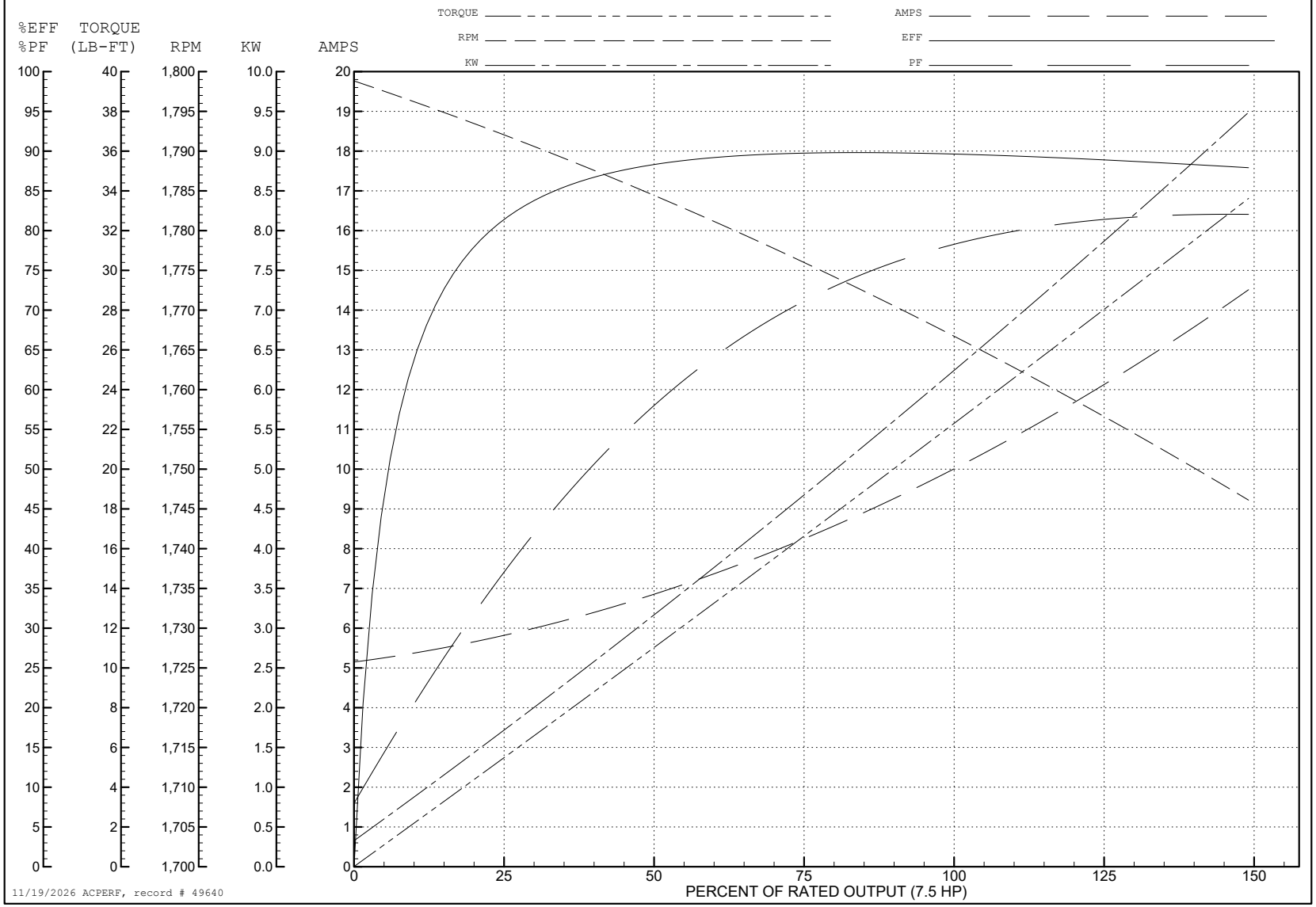
ABB Motors and Mechanical Inc.

WINDING # 07WGX835

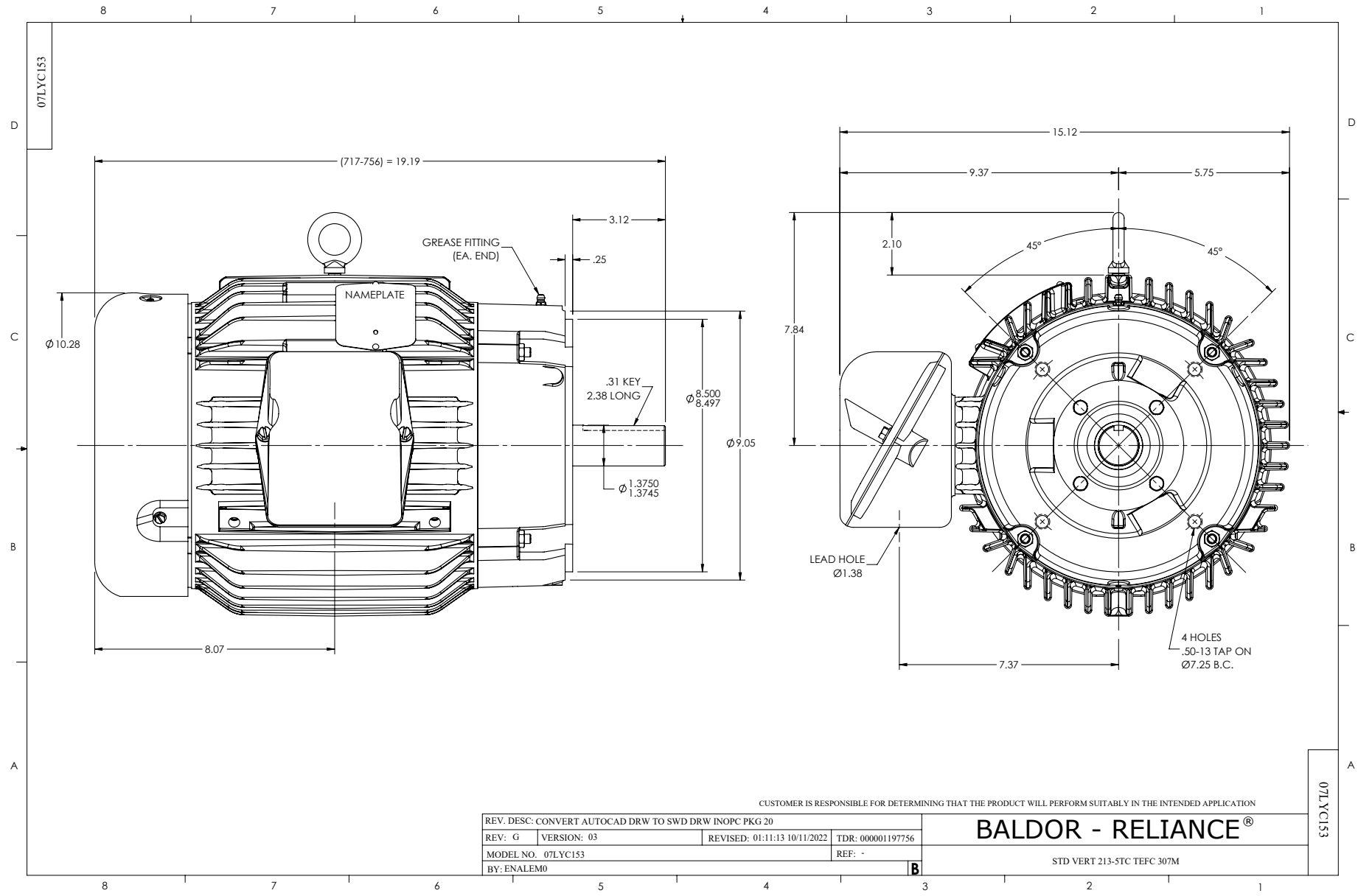
7.5 HP 3 PH 60 HZ 1767 RPM 460 V 0730M

Typical performance - not guaranteed values.

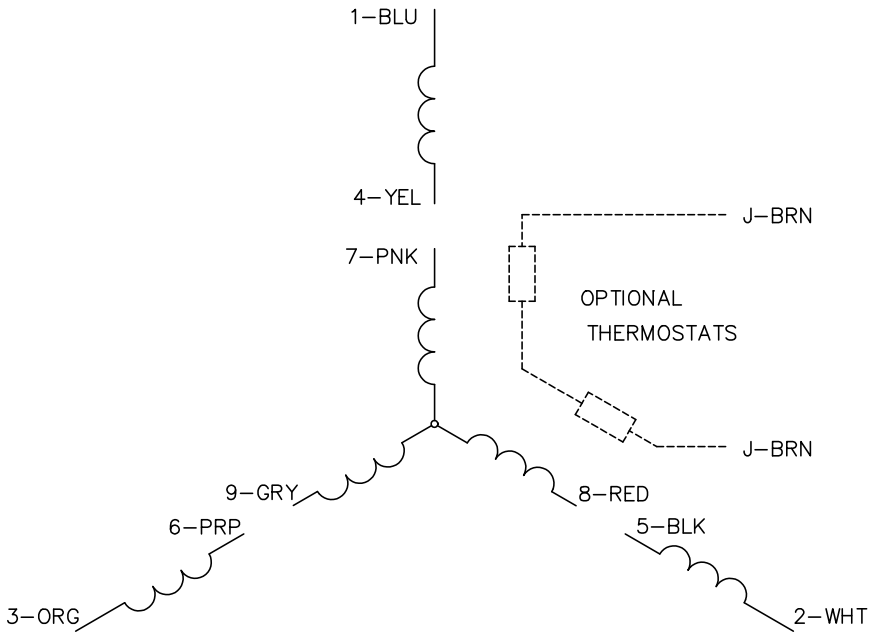
TORQUES(LB-FT): PO=71.56 PU=31.54 LR=47.06 LRA=72.23

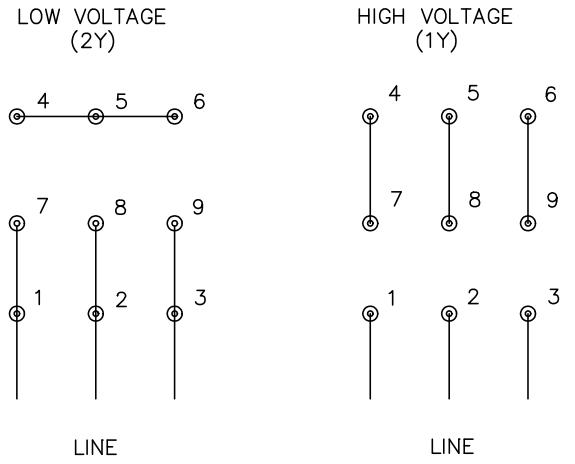


11/19/2026 ACPERF, record # 49640


07LYC153
(717-756) = 19.19
3.12
.25
GREASE FITTING
(EA. END)
NAMEPLATE
Ø10.28
.31 KEY
2.38 LONG
Ø8.500
8.497
Ø9.05
Ø1.3750
1.3745
8.07
15.12
9.37
5.75
2.10
45°
45°
7.84
LEAD HOLE
Ø1.38
4 HOLES
.50-13 TAP ON
Ø7.25 B.C.
7.37
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW INOPC PKG 20
REV: G
VERSION: 03
REVISED: 01:11:13 10/11/2022
TDR: 000001197756
MODEL NO. 07LYC153
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD VERT 213-5TC TEFC 307M
07LYC153

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