ABB BALDOR RELIANCE

Customer information packet

VXM21142T

10//7.5HP, 1770//1475RPM, 3PH, 60//50HZ, 215
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	215TC
Frame Material	Steel
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 50 HZ
	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	190.0 V @ 50 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
Agency Approvals	UL
	CSA EEV
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
Constant Torque Speed Range	15
Current @ Voltage	11.000 A @ 380.0 V
	12.000 A @ 460.0 V
	22.000 A @ 190.0 V
	24.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGS518
Layout	37LY-000-164
Eff. date	02-13-2023
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	04-27-2021

Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	11.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3752M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	21.82 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor

Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0887XPSLEV											
NO.				**CC**	010A						
S/N				**TEMP CODE**	T3C						
SPEC.	37-0000-0379			**INV.TYPE**	PWM						
CAT.NO.	VXM21142T			**C HP FR**	60	**C HP TO**	90				
HP	10//7.5			**CT HZ FROM**	15			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	24/12//22/11		**MAG CUR**	7.4/3.7							
RPM	1770//1475		**MX RPM**	2700							
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	91.7				
SER.F.	1.00	**DES**	A	**SL HZ**	1	**WK2**	1.28				
FRAME	215TC	**RATING**	40C AMB-CONT								
	NEMA MG-1 PART 5, IP54										
	1.15 SF ON SINE WAVE										

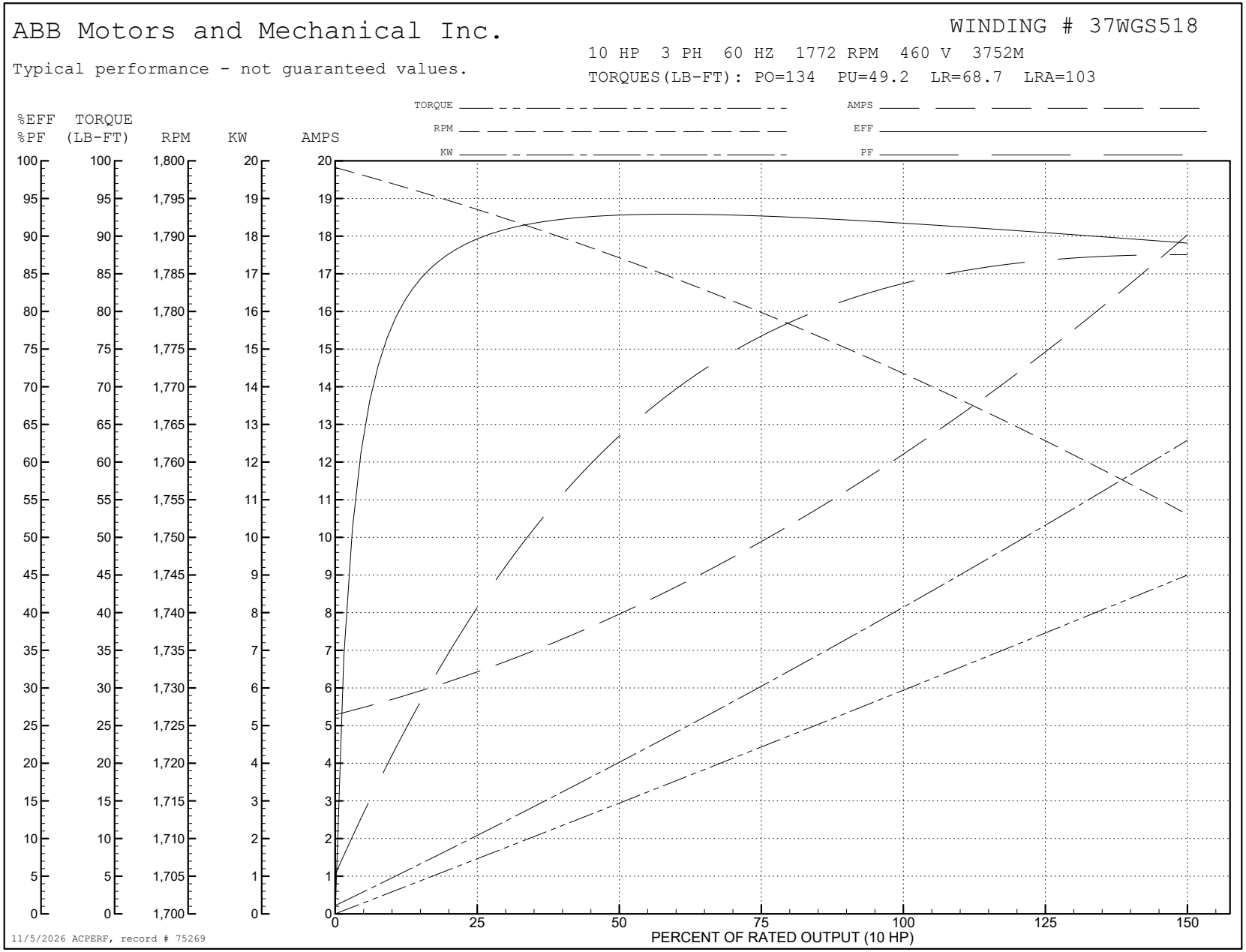
AC Induction Motor Performance Data
Record # 75269
Typical performance - not guaranteed values

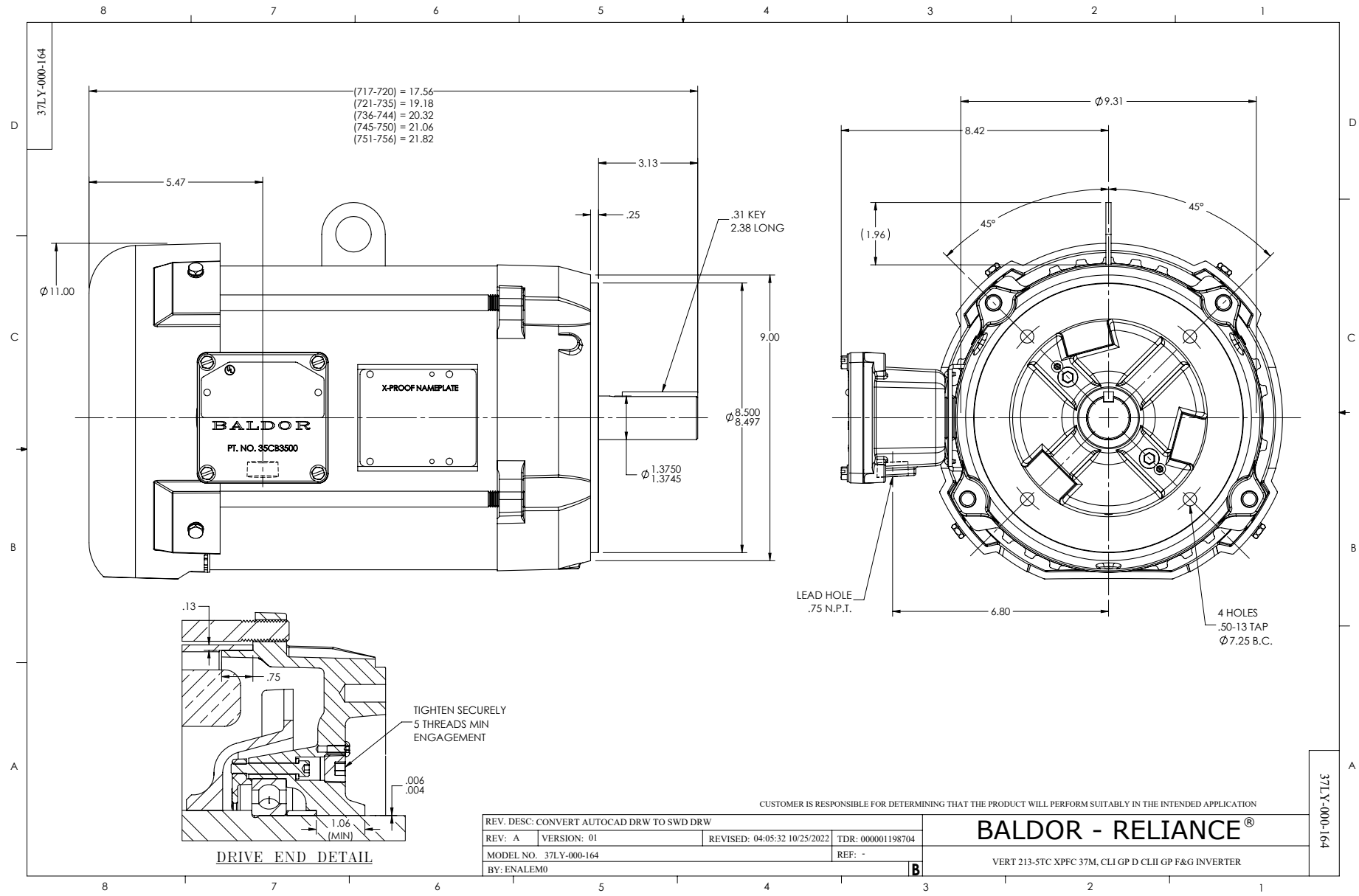
Winding: 37WGS518-R018	**Type:** 3752M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			10	**Full Load Torque**	29.45 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			24/12//22/11	**Breakdown Torque**	134 LB-FT
R.P.M.			1770//1475	**Pull-up Torque**	49.2 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	68.7 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	103 A
Service Factor (S.F.)			1	**No-load Current**	5.49 A
NEMA Nom. Eff.	91.7	**Power Factor**	85	**Line-line Res. @ 25ºC**	0.937 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	63°C
S.F. Amps				**Temp. Rise @ S.F. Load**	77°C
				Locked-rotor Power Factor	35.5
				Rotor inertia	1.28 LB-FT2

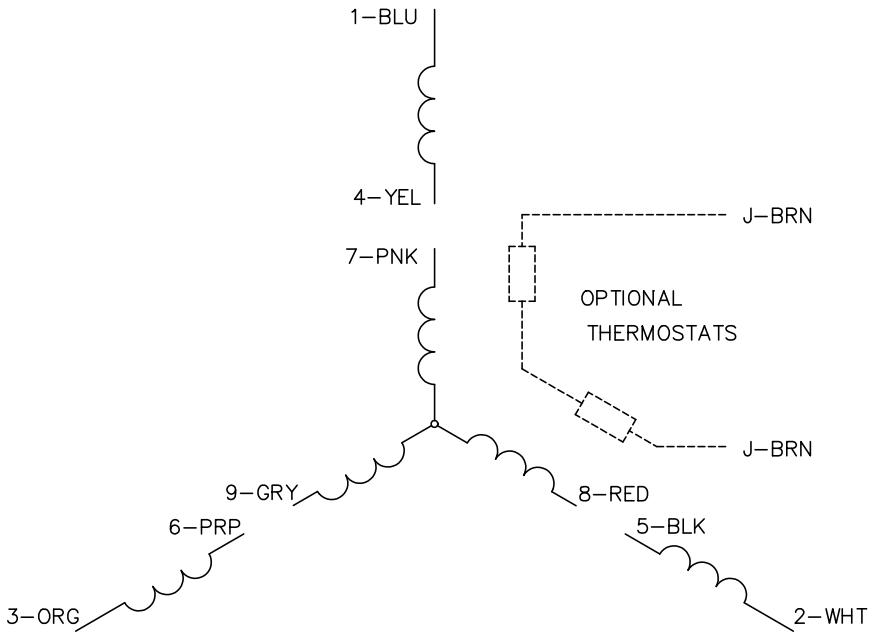
Load Characteristics 460 V, 60 Hz, 10 HP

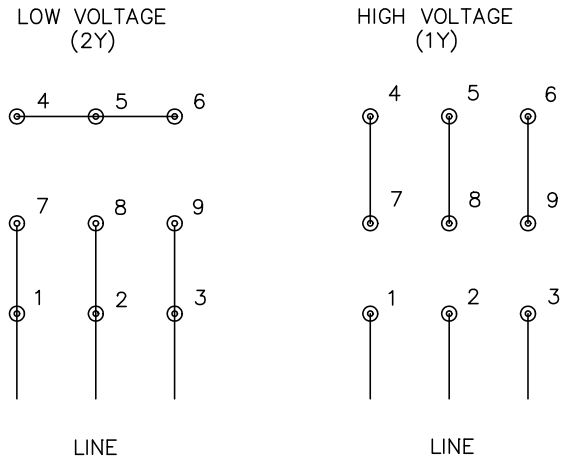
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	42	64	76	82	86	88
Efficiency	88.5	92.3	92.7	91.8	90.7	88.9
Speed	1794	1787	1780	1772	1763	1753
Line amperes	6.14	7.8	9.9	12.3	15	17.9


ABB Motors and Mechanical Inc.
WINDING # 37WGS518
10 HP 3 PH 60 HZ 1772 RPM 460 V 3752M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=134 PU=49.2 LR=68.7 LRA=103
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
11/5/2026 ACPERF, record # 75269


37LY-000-164
(717-720) = 17.56
(721-735) = 19.18
(736-744) = 20.32
(745-750) = 21.06
(751-756) = 21.82
5.47
3.13
.25
.31 KEY
2.38 LONG
Ø11.00
9.00
Ø8.500
8.497
Ø1.3750
1.3745
BALDOR
PT. NO. 35CB3500
X-PROOF NAMEPLATE
Ø9.31
8.42
45°
45°
(1.96)
LEAD HOLE
.75 N.P.T.
6.80
4 HOLES
.50-13 TAP
Ø7.25 B.C.
.13
.75
TIGHTEN SECURELY
5 THREADS MIN
ENGAGEMENT
.006
.004
1.06
(MIN)
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: A
VERSION: 01
REVISED: 04:05:32 10/25/2022
TDR: 000001198704
MODEL NO. 37LY-000-164
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VERT 213-5TC XPFC 37M, CLI GP D CLII GP F&G INVERTER
37LY-000-164

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