BALDOR • RELIANCE

Customer information packet

HBEM3764T

36M 6P TEFC HOR 213T
Class - None
Division - Not Applicable

12/22/2025 4:25:55 PM

Specifications

Enclosure	TEFC
Frame	213T
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	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
Agency Approvals	CURUSEEV
	NEMA PREMIUM
	WEEE
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	8.800 A @ 230.0 V
	9.000 A @ 208.0 V
	4.400 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Electrically Isolated Bearings
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	F
Type	AC
Mech. spec.	07D743
Base	
Status	PRD/A
Elec. spec.	07WGX970
Layout	07LYD743
Eff. date	12-06-2024
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	01-05-2022

High Voltage Full Load Amps	4.4 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0736M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	18.45 IN
Power Factor	71
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
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

NP4312A01A01L

CAT #	HBEM3764T				**SER**			**CC**	010A	**WGT**		**LBS**	
SPEC	07D743X970G1				**RATING**	40C AMB-CONT							
HZ	**VOLTS**			**AMPS**				**RPM**		**HP**	**SF**	**NEMA NOM. EFF**	
60	230/460			8.8/4.4				1165		3HP	1.15	89.5	
PH	3	**CL**	H	**CODE**	K	**DES**	B	**ENCL**	TEFC	**IP**	54	**PF**	71 **%**
DE BRG	6307			**ODE BRG**	6206			**FRAME**	213T				
INV TYPE:	**VPWM**			**SL HZ**	1.75	**CHP**	60	**TO**	90	1.5:1			
WK2	0.895	**LB FT2**		**MAX RPM**	1800	**CT**	6	**TO**	60	10:1			
	4.5/2.25			**VT**	3	**TO**	60	20:1					
SFA 9.8/4.9													
YR													

AC Induction Motor Performance Data
Record # 56803
Typical performance - not guaranteed values

Winding: 07WGX970-R024	**Type:** 0736M	**Enclosure:** TEFC

Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		3	**Full Load Torque**	13.61 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		9/4.5	**Breakdown Torque**	51.71 LB-FT
R.P.M.		1165	**Pull-up Torque**	25.77 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	31.08 LB-FT
NEMA Design Code	B **KVA Code**	K	**Starting Current**	32.19 A
Service Factor (S.F.)		1.15	**No-load Current**	2.26 A
NEMA Nom. Eff.	89.5 **Power Factor**	71	**Line-line Res. @ 25ºC**	3 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	34°C
S.F. Amps			**Temp. Rise @ S.F. Load**	41°C
			Locked-rotor Power Factor	23.3
			Rotor inertia	0.895 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	35	54	65	72	75	76	73
Efficiency	82.8	88.3	89.7	89.6	89	87.3	89.2
Speed	1192	1184	1176	1166	1156	1143	1161
Line amperes	2.48	2.96	3.62	4.41	5.29	6.33	4.99

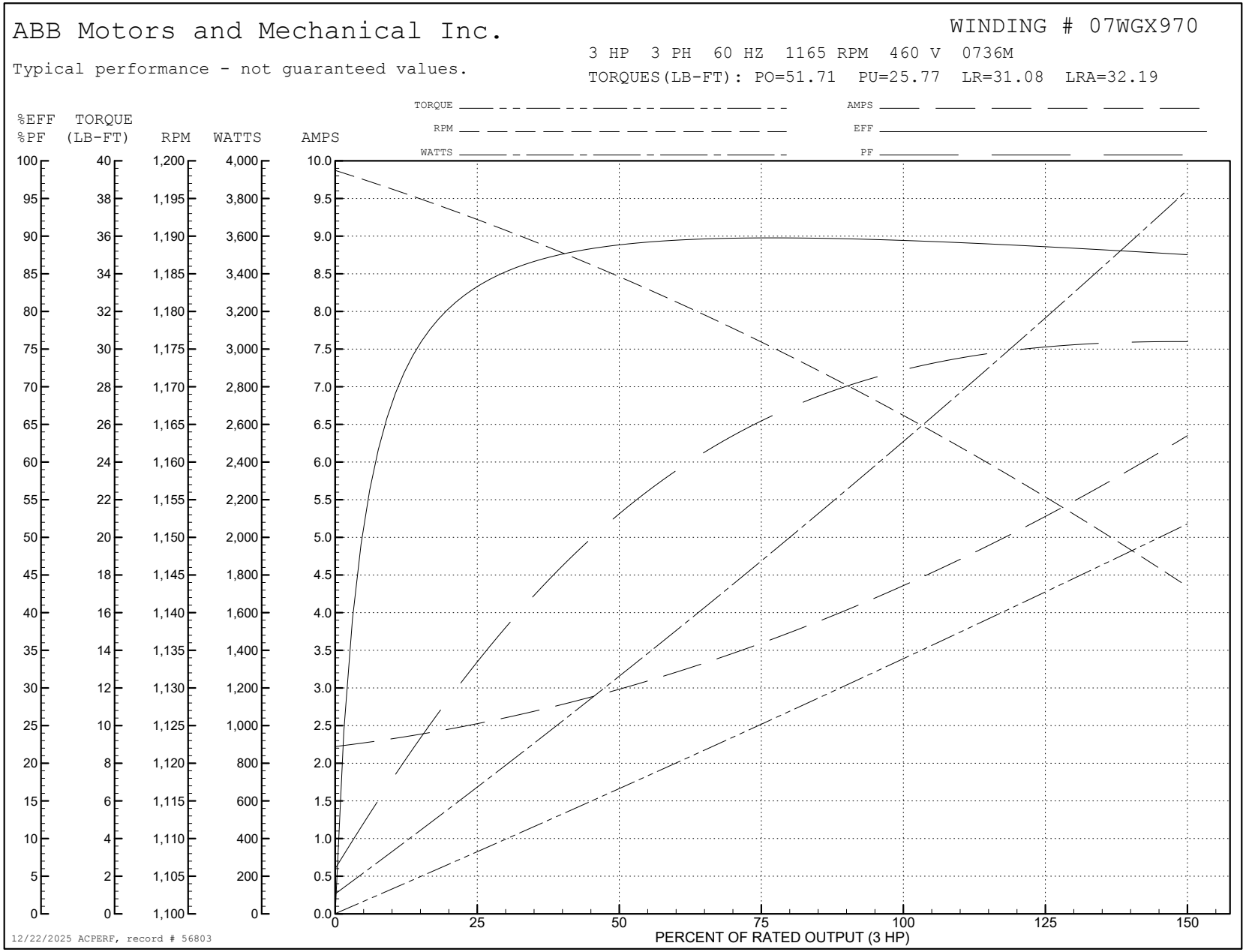
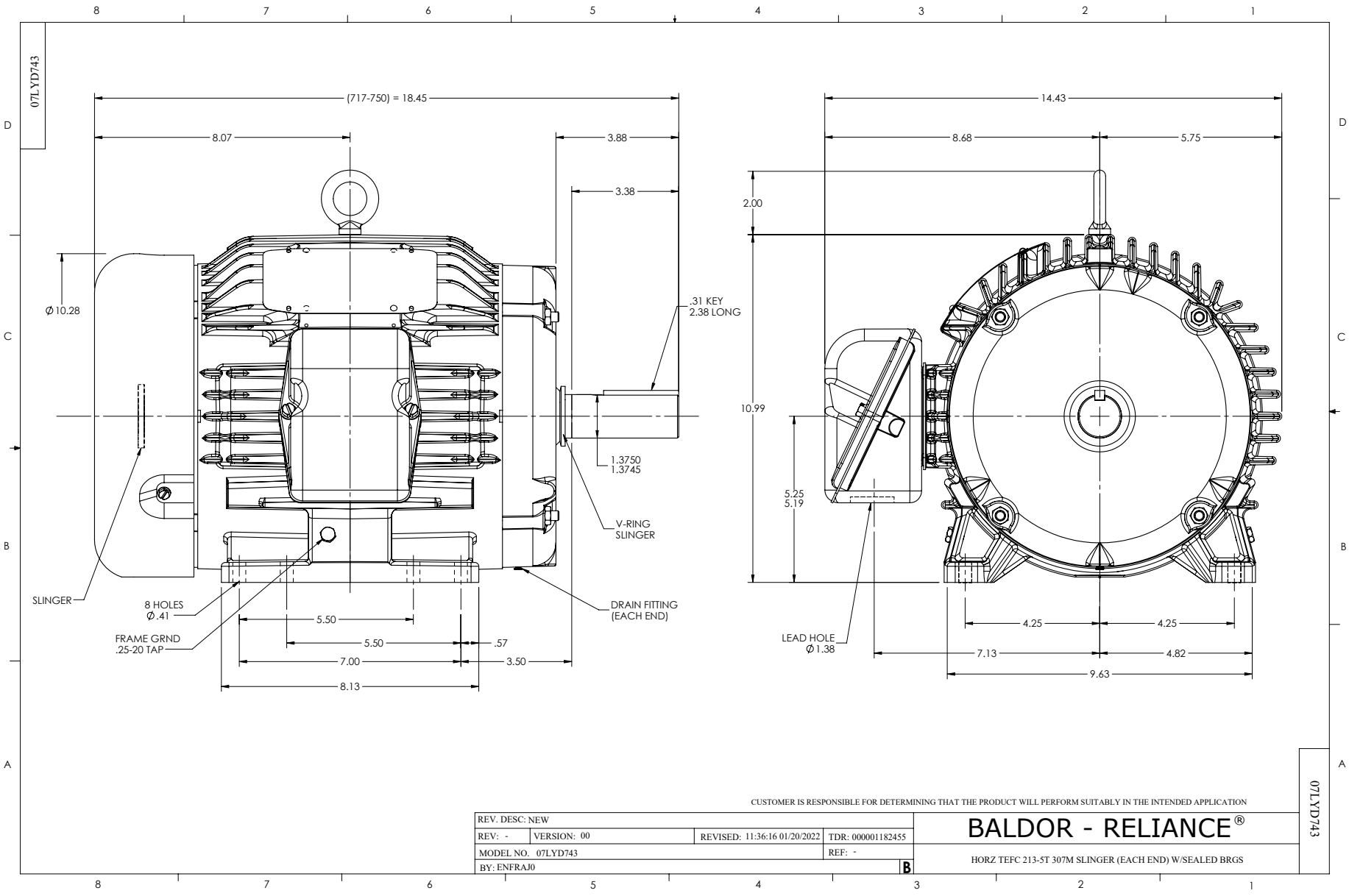
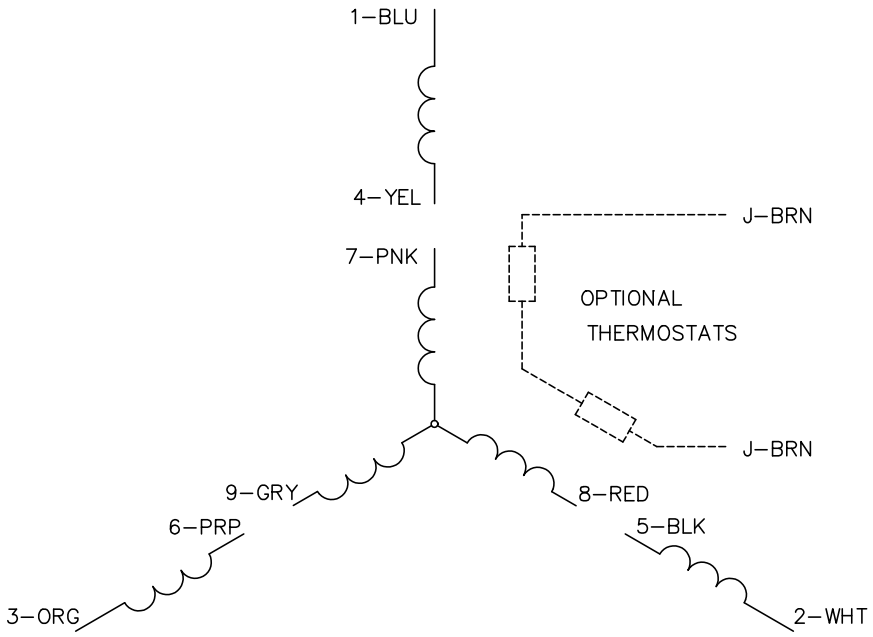
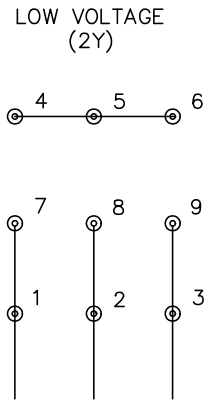


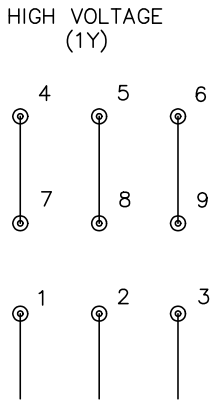
ABB Motors and Mechanical Inc.
WINDING # 07WGX970
3 HP 3 PH 60 HZ 1165 RPM 460 V 0736M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=51.71 PU=25.77 LR=31.08 LRA=32.19
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (3 HP)
12/22/2025 ACPERF, record # 56803


07LYD743
(717-750) = 18.45
8.07
3.88
3.38
Ø10.28
.31 KEY
2.38 LONG
1.3750
1.3745
V-RING
SLINGER
SLINGER
8 HOLES
Ø.41
FRAME GRND
.25-20 TAP
5.50
5.50
.57
7.00
3.50
8.13
DRAIN FITTING
(EACH END)
14.43
8.68
5.75
2.00
10.99
5.25
5.19
LEAD HOLE
Ø1.38
4.25
4.25
7.13
4.82
9.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NEW
REV: - VERSION: 00 REVISED: 11:36:16 01/20/2022 TDR: 000001182455
MODEL NO. 07LYD743 REF: -
BY: ENFRAJ0 B
BALDOR - RELIANCE®
HORZ TEFC 213-5T 307M SLINGER (EACH END) W/SEALED BRGS
07LYD743

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