ABB BALDOR RELIANCE

Customer information packet

VHECP3771T

10HP, 3500RPM, 3PH, 60HZ, 215HP, 0742M, TEFC, F
Class - None
Division - Not Applicable

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11/23/2026 3:48:27 AM

Specifications

Enclosure	TEFC
Frame	215HP
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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	22.000 A @ 230.0 V
	24.500 A @ 208.0 V
	11.000 A @ 460.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None

Part Detail

Revision	P
Type	AC
Mech. spec.	07K215
Base	
Status	PRD/A
Elec. spec.	07WGY012
Layout	07LYK215
Eff. date	07-25-2024
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	09-11-2012

Heater Indicator	No Heater
High Voltage Full Load Amps	11.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Vertical 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	0742M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	22.51 IN
Power Factor	90
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	P-Base
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3500 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

NP1260									
CAT.NO.	VHECP3771T								
SPEC.	07K215Y012G1								
HP	10								
VOLTS	230/460								
AMP	22/11								
RPM	3500								
FRAME	215HP	**HZ**	60		**PH**	3			
SER.F.	1.15	**CODE**	H	**DES**	B		**CL**	F	
NEMA-NOM-EFF	92.4	**PF**	90						
RATING	40C AMB-CONT								
CC	010A								
DE	6309	**ODE**	6206						
ENCL	TEFC	**SN**							

AC Induction Motor Performance Data
Record # 30058
Typical performance - not guaranteed values

Winding: 07WGY012-R001	**Type:** 0742M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			10	**Full Load Torque**	14.9 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			22.4/11.2	**Breakdown Torque**	70.8 LB-FT
R.P.M.			3500	**Pull-up Torque**	24.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	32.6 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	88.5 A
Service Factor (S.F.)			1.15	**No-load Current**	3.61 A
NEMA Nom. Eff.	92.4	**Power Factor**	90	**Line-line Res. @ 25ºC**	0.776 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	40°C
S.F. Amps				**Temp. Rise @ S.F. Load**	51°C
				Rotor inertia	0.383 lb-ft²

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	58	79	88	90	92	91	91
Efficiency	90.1	93	93.2	92.5	91.4	90	91.8
Speed	3578.4	3554.5	3528.7	3503.4	3473.7	3440.8	3486
Line amperes	4.43	6.32	8.64	11.1	13.9	17.1	12.8

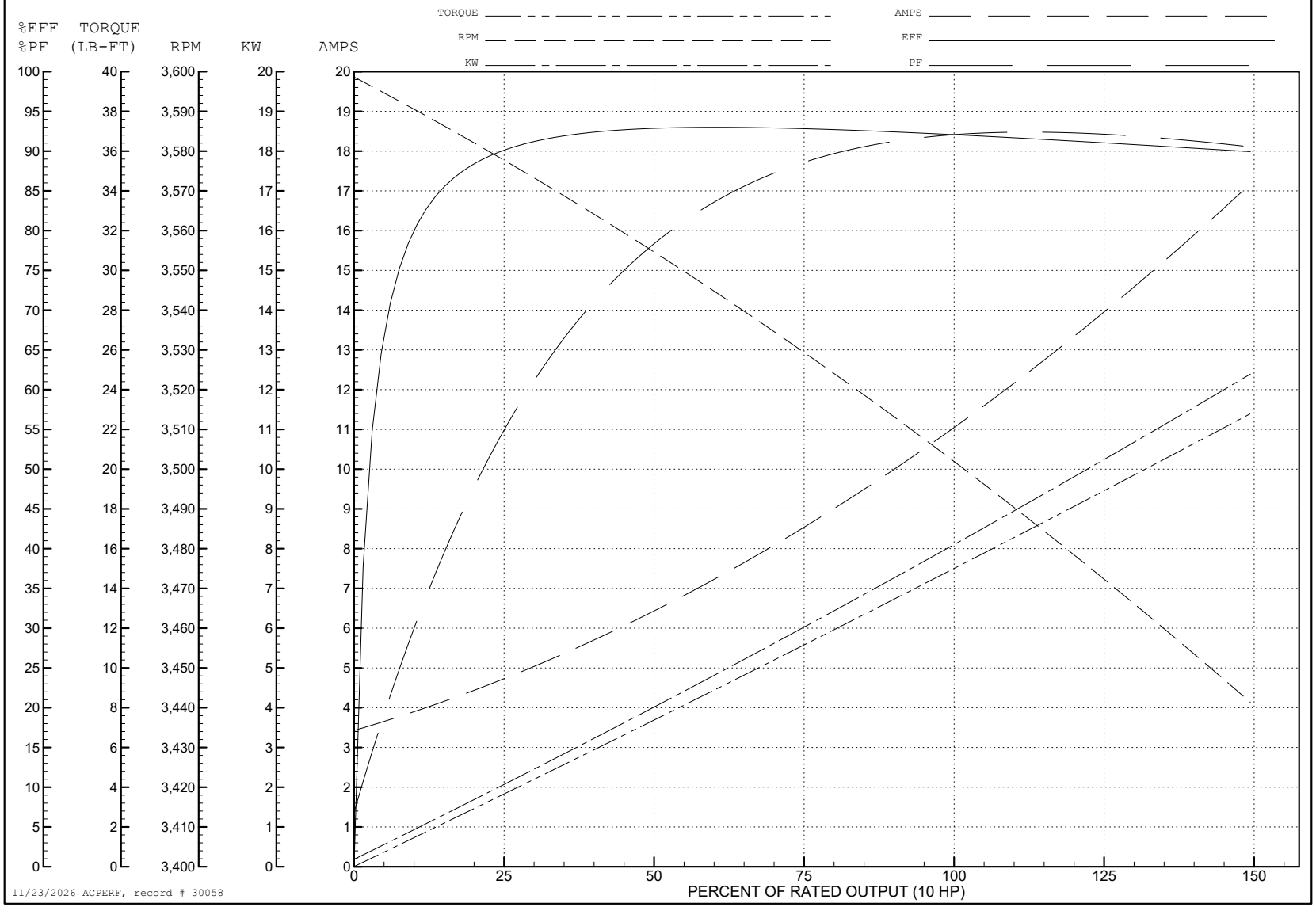
ABB Motors and Mechanical Inc.

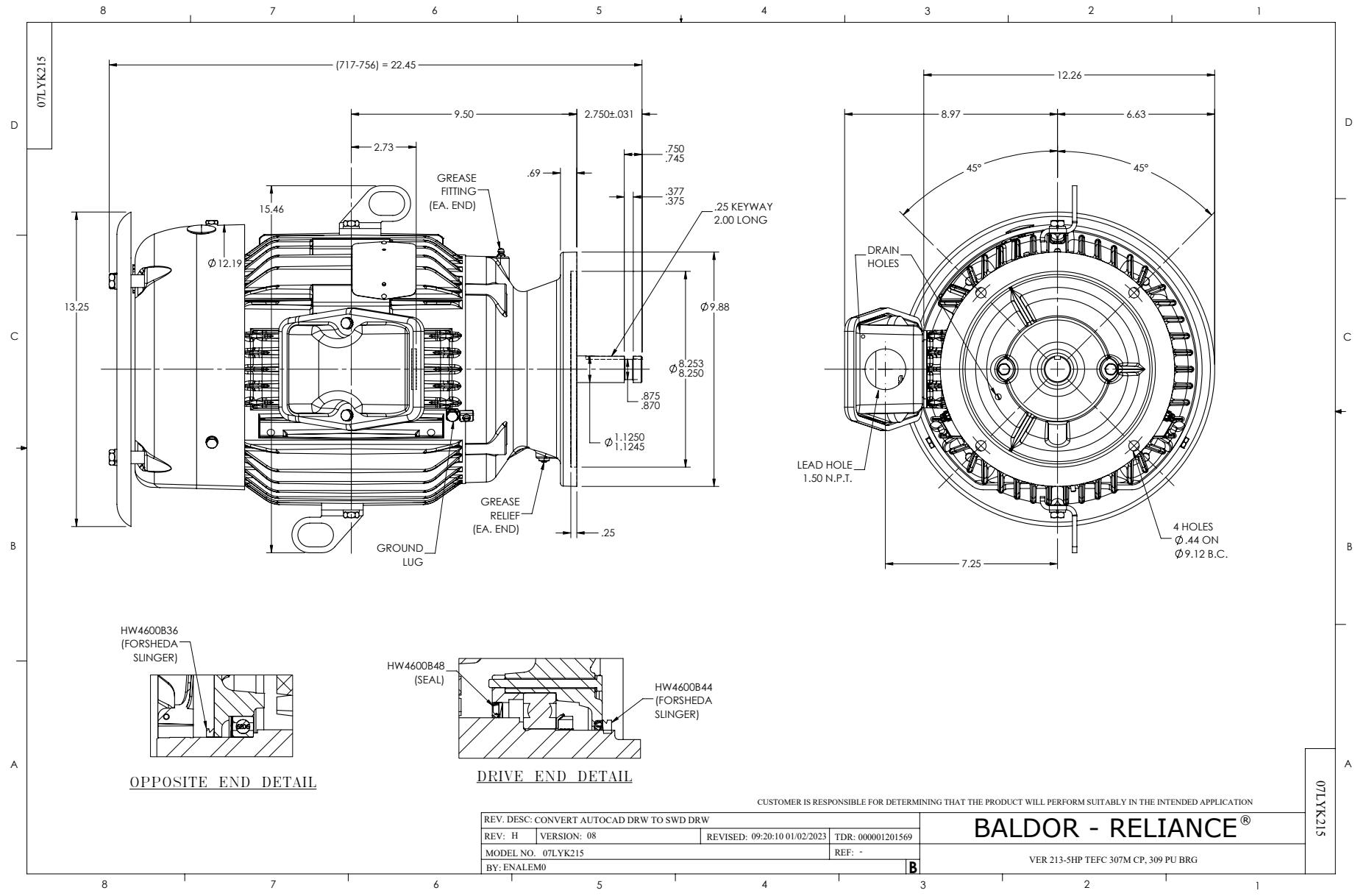
WINDING # 07WGY012

10 HP 3 PH 60 HZ 3500 RPM 460 V 0742M

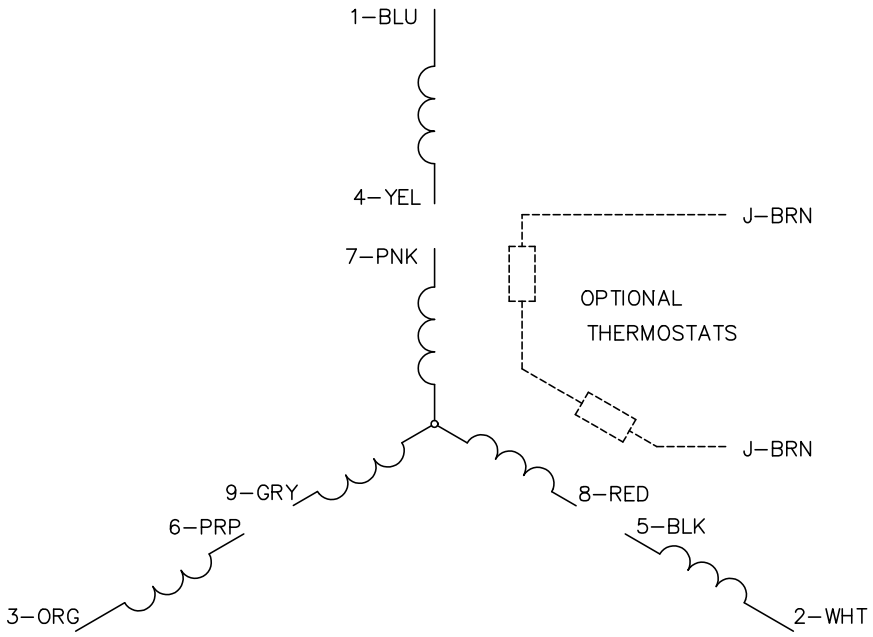
Typical performance - not guaranteed values.

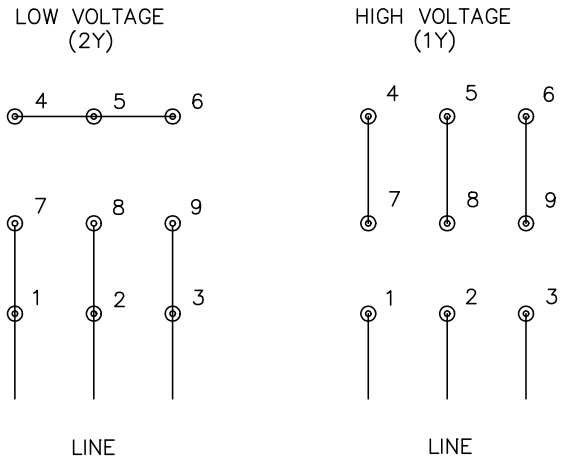
TORQUES(LB-FT): PO=70.8 PU=24.2 LR=32.6 LRA=88.5




07LYK215
(717-756) = 22.45
9.50
2.750±.031
2.73
.69
.750
.745
.377
.375
GREASE FITTING (EA. END)
.25 KEYWAY 2.00 LONG
15.46
Ø12.19
13.25
Ø9.88
Ø8.253
8.250
.875
.870
Ø1.1250
1.1245
GREASE RELIEF (EA. END)
GROUND LUG
.25
12.26
8.97
6.63
45°
45°
DRAIN HOLES
LEAD HOLE 1.50 N.P.T.
4 HOLES Ø.44 ON Ø9.12 B.C.
7.25
HW4600B36 (FORSHEDA SLINGER)
OPPOSITE END DETAIL
HW4600B48 (SEAL)
HW4600B44 (FORSHEDA SLINGER)
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: H
VERSION: 08
REVISED: 09:20:10 01/02/2023
TDR: 000001201569
MODEL NO. 07LYK215
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VER 213-5HP TEFC 307M CP, 309 PU BRG
07LYK215

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