ABB BALDOR RELIANCE

Customer information packet

CEM7045T

7.5//5HP, 3520//2935RPM, 3PH, 60//50HZ, 213T
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	213TC
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 @ 60 HZ
	5.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	190.0 V @ 50 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
	460.0 V @ 60 HZ
Agency Approvals	UR
	CSA
	CSA EEV
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	9.000 A @ 460.0 V
	7.800 A @ 380.0 V
	19.000 A @ 208.0 V
	18.000 A @ 230.0 V
	15.600 A @ 190.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	C
Type	AC
Mech. spec.	37H238
Base	
Status	PRD/A
Elec. spec.	37WGL869
Layout	37LYH238
Eff. date	02-15-2024
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	01-28-2021

Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	7.8 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3728M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	20.33 IN
Power Factor	84
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	2935 rpm
	3520 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

NP1426XPSLEV							
NO.		**CC**	010A				
SER.							
SPEC.	37H238L869G1						
CAT.NO.	CEM7045T						
HP	7.5//5	**T. CODE**	T3C				
VOLTS	230/460//190/380						
AMPS	18/9//15.6/7.8						
RPM	3520//2935						
HZ	60//50	**PH**	3	**CL**	B		
SER.F.	1.00	**DES**	A	**CODE**	J		
RATING	40C AMB-CONT						
FRAME	213TC	**NEMA-NOM-EFF**	89.5				
		PF	84				
BLANK							

AC Induction Motor Performance Data
Record # 86810
Preliminary Data Sheet

Winding: 37WGL869-R003	**Type:** 3728M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	11.2 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			18/9	**Breakdown Torque**	40.3 LB-FT
R.P.M.			3520	**Pull-up Torque**	19.7 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	21.8 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	68.4 A
Service Factor (S.F.)			1	**No-load Current**	3.52 A
NEMA Nom. Eff.	89.5	**Power Factor**	84	**Line-line Res. @ 25ºC**	1.19 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	50°C
				Locked-rotor Power Factor	38.1
				Rotor inertia	0.255 lb-ft²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	49	71	81	86	88	89
Efficiency	83.9	89.7	91	90.9	90.2	89.2
Speed	3580	3560	3540	3518	3494	3468
Line amperes	4.1	5.4	7.06	8.96	11	13.2

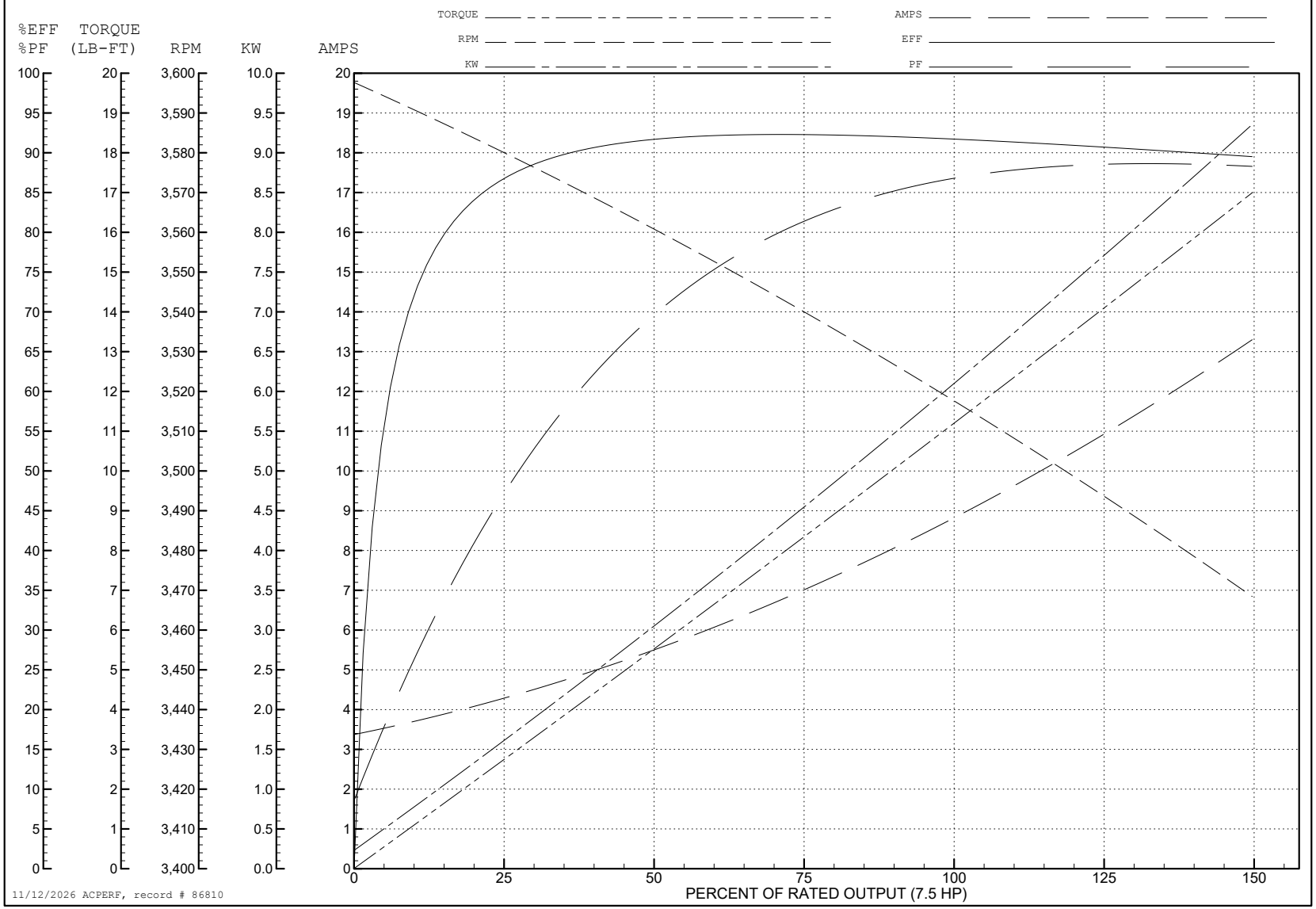
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WINDING # 37WGL869

7.5 HP 3 PH 60 HZ 3520 RPM 460 V 3728M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=40.3 PU=19.7 LR=21.8 LRA=68.4



AC Induction Motor Performance Data
Record # 86811
Preliminary Data Sheet

Winding: 37WGL869-R003	**Type:** 3728M	**Enclosure:** XPFC

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			5	**Full Load Torque**	8.95 LB-FT
Volts			190/380	**Start Configuration**	direct on line
Full Load Amps			15.6/7.8	**Breakdown Torque**	45.7 LB-FT
R.P.M.			2935	**Pull-up Torque**	22.2 LB-FT
Hz	50	**Phase**	3	**Locked-rotor Torque**	24.5 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	66 A
Service Factor (S.F.)			1	**No-load Current**	3.97 A
NEMA Nom. Eff.	89.5	**Power Factor**	81	**Line-line Res. @ 25ºC**	1.19 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	36°C
				Locked-rotor Power Factor	43.8
				Rotor inertia	0.255 lb-ft²

Load Characteristics 380 V, 50 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	41	63	74	80	85	87
Efficiency	81.1	88	89.8	90.1	89.8	88.8
Speed	2984	2969	2952	2934	2915	2889
Line amperes	4.32	5.18	6.39	7.81	9.34	11.4

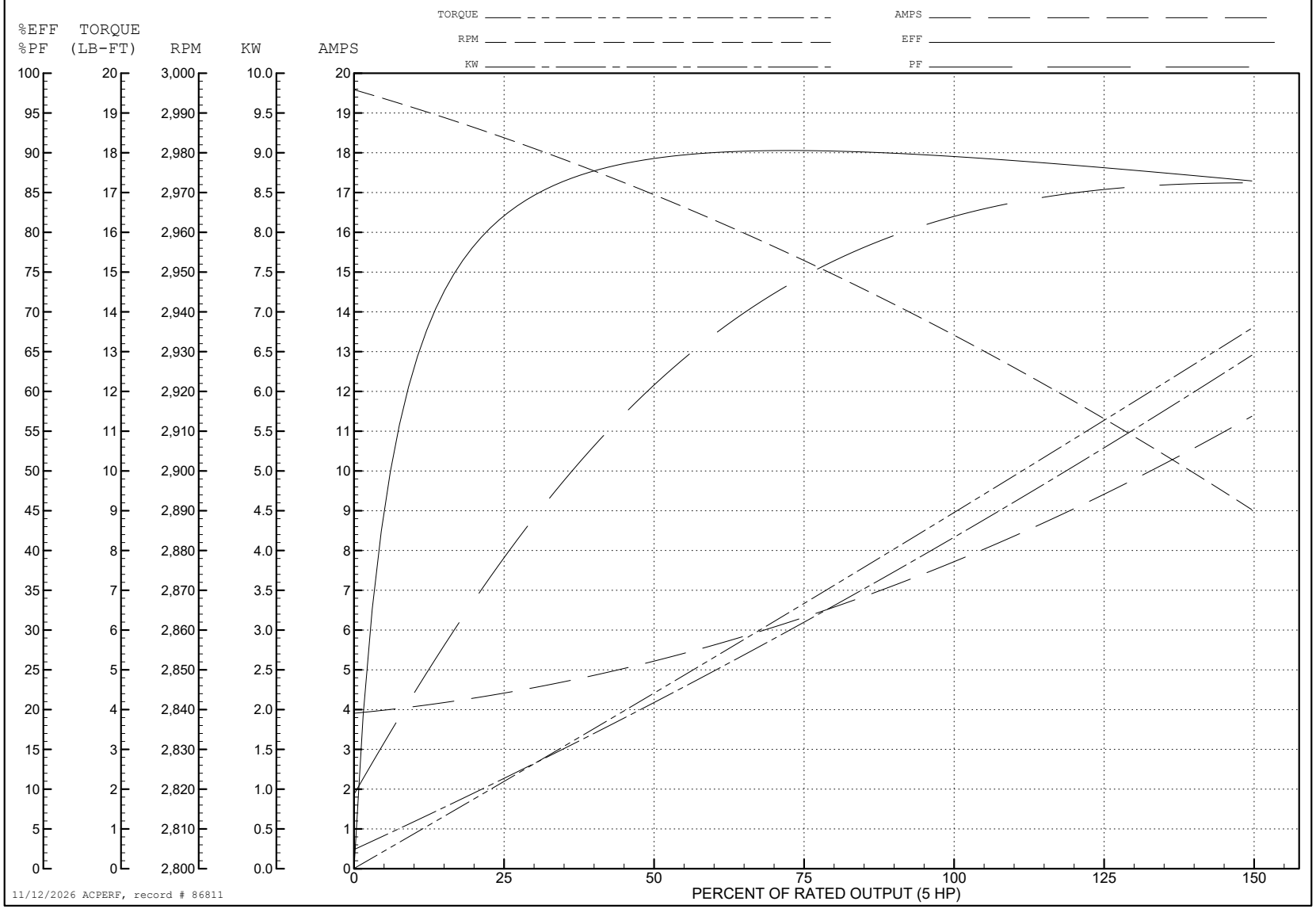
ABB Motors and Mechanical Inc.

WINDING # 37WGL869

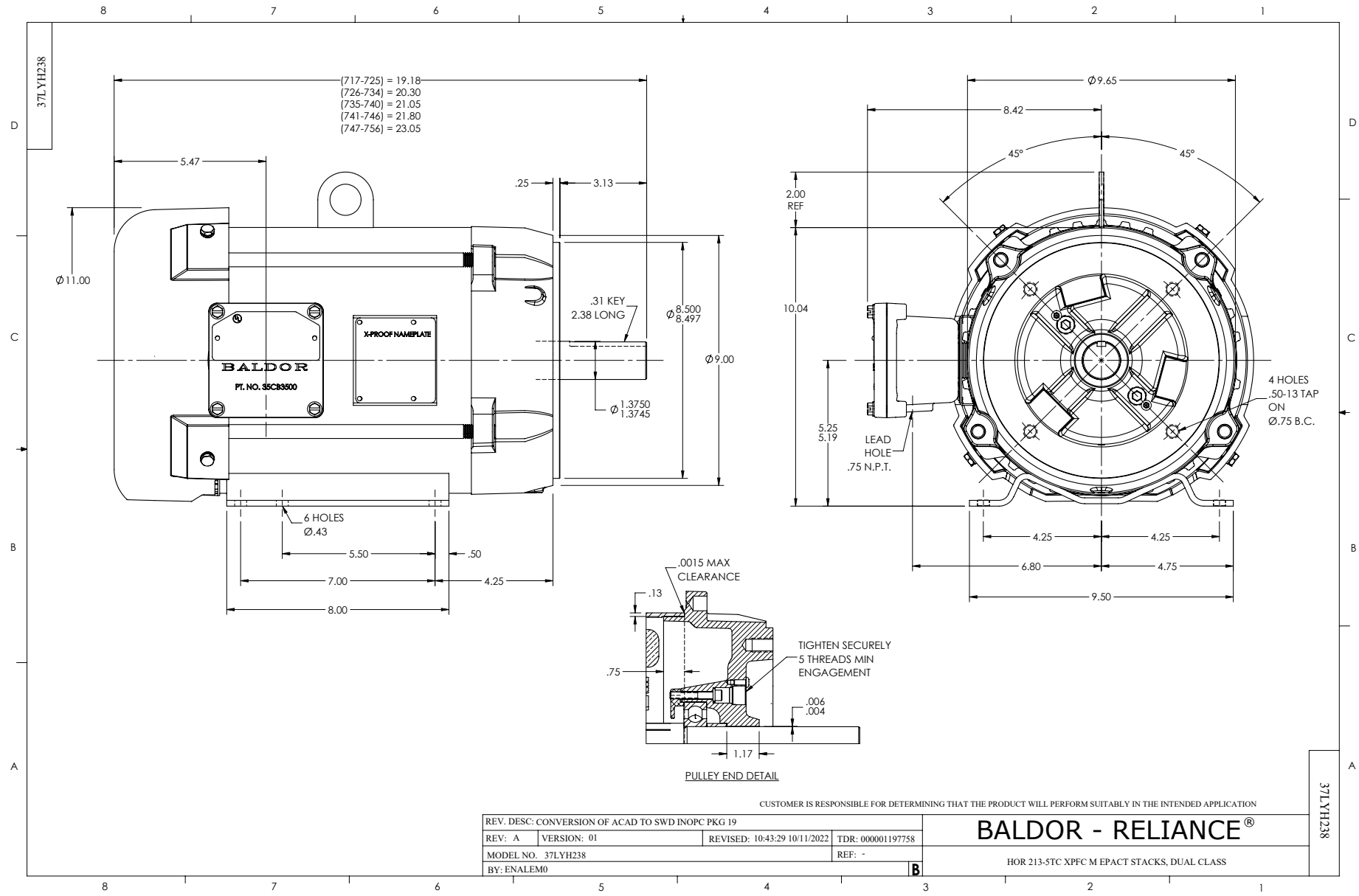
5 HP 3 PH 50 HZ 2935 RPM 380 V 3728M

Typical performance - not guaranteed values.

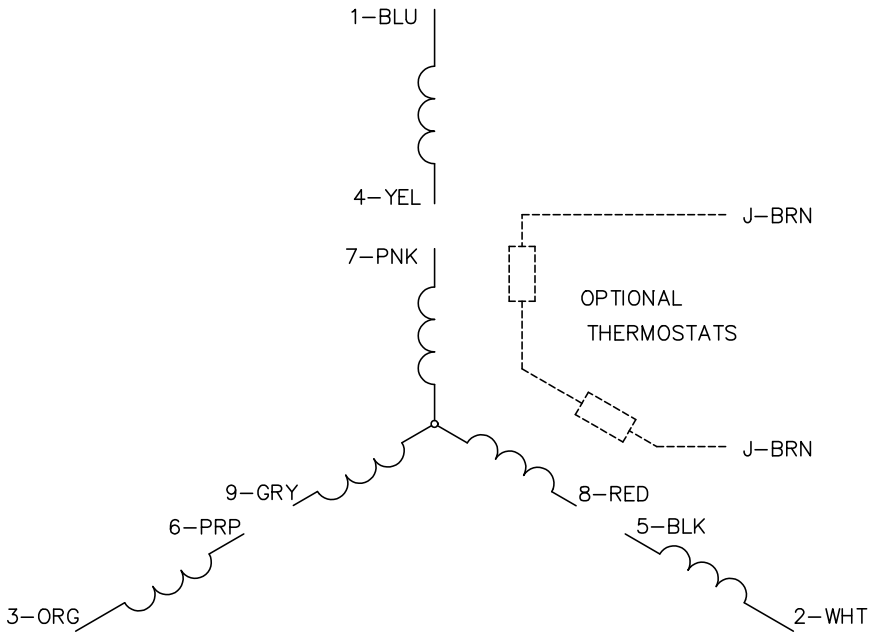
TORQUES(LB-FT): PO=45.7 PU=22.2 LR=24.5 LRA=66

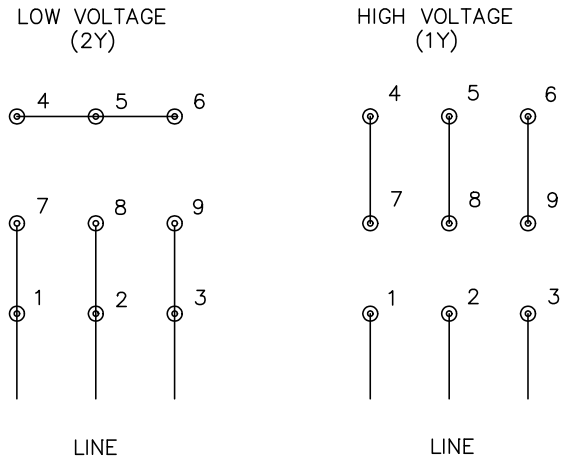


11/12/2026 ACPERF, record # 86811


37LYH238
(717-725) = 19.18
(726-734) = 20.30
(735-740) = 21.05
(741-746) = 21.80
(747-756) = 23.05
5.47
.25
3.13
Ø11.00
.31 KEY
2.38 LONG
Ø8.500
8.497
Ø9.00
Ø1.3750
1.3745
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
6 HOLES
Ø.43
5.50
.50
7.00
4.25
8.00
Ø9.65
8.42
45°
45°
2.00
REF
10.04
5.25
5.19
LEAD
HOLE
.75 N.P.T.
4 HOLES
.50-13 TAP
ON
Ø.75 B.C.
4.25
4.25
6.80
4.75
9.50
.0015 MAX
CLEARANCE
.13
.75
TIGHTEN SECURELY
5 THREADS MIN
ENGAGEMENT
.006
.004
1.17
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERSION OF ACAD TO SWD INOPC PKG 19
REV: A
VERSION: 01
REVISED: 10:43:29 10/11/2022
TDR: 000001197758
MODEL NO. 37LYH238
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR 213-5TC XPFC M EPACT STACKS, DUAL CLASS
37LYH238

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