ABB BALDOR RELIANCE

Customer information packet

CEM7045T-I

7.5//5HP, 3520//2930RPM, 3PH, 60//50HZ, 213T
Class - CLI GP C,D
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 C,D
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
	UL
	CSA EEV
	CSA
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
	7.700 A @ 380.0 V
	19.400 A @ 208.0 V
	18.000 A @ 230.0 V
	15.400 A @ 190.0 V
Design Code	A

Part Detail

Revision	H
Type	AC
Mech. spec.	37M353
Base	
Status	PRD/A
Elec. spec.	37WGR224
Layout	37LYM353
Eff. date	02-28-2024
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	11-22-2013

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
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	7.7 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	3728M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	20.32 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
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	Shaft Slinger
Speed	2930 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

NP0977XPSLEV											
NO.						**CC**	010A				
SER.						**TEMP CODE**	T3C				
SPEC.	37M353R224G1										
CAT.NO.	CEM7045T-I										
HP	7.5//5										
VOLTS	230/460//190/380										
AMPS	18/9//15.4/7.7										
RPM	3520//2930 75C RISE				**MOTOR WEIGHT**		149				
HERTZ	60//50	**PH**	3	**CL**	F	**DE BRG**	6307				
SER.F.	1.15	**DES**	A	**CODE**	J	**ODE BRG**	6206				
FRAME	213TC	**GREASE**	POLYREX EM								
RATING	40C AMB-CONT										
				NEMA-NOM-EFF			89.5	**PF**	84		
	NEMA MG-1 PT 5,IP55										

AC Induction Motor Performance Data
Record # 38348
Typical performance - not guaranteed values

Winding: 37WGR224-R005	**Type:** 3728M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			7.5//5
Volts			208-230/460//190/380
Full Load Amps			19.4-18/9//15.4/7.7
R.P.M.			3520//2930
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	89.5	**Power Factor**	84
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	10.9 LB-FT
Start Configuration	direct on line
Breakdown Torque	40.4 LB-FT
Pull-up Torque	20.6 LB-FT
Locked-rotor Torque	21.8 LB-FT
Starting Current	68.4 A
No-load Current	3.73 A
Line-line Res. @ 25ºC	1.1531 Ω
Temp. Rise @ Rated Load	45°C
Temp. Rise @ S.F. Load	54°C
Locked-rotor Power Factor	33
Rotor inertia	0.255 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	69	79	84	87	89	86
Efficiency	81.5	88.8	90.5	90.6	90.1	89.2	90.3
Speed	3580.5	3562.7	3541.6	3520.3	3496.3	3470.9	3506
Line amperes	4.22	5.36	7.03	8.94	11	13.1	10.2

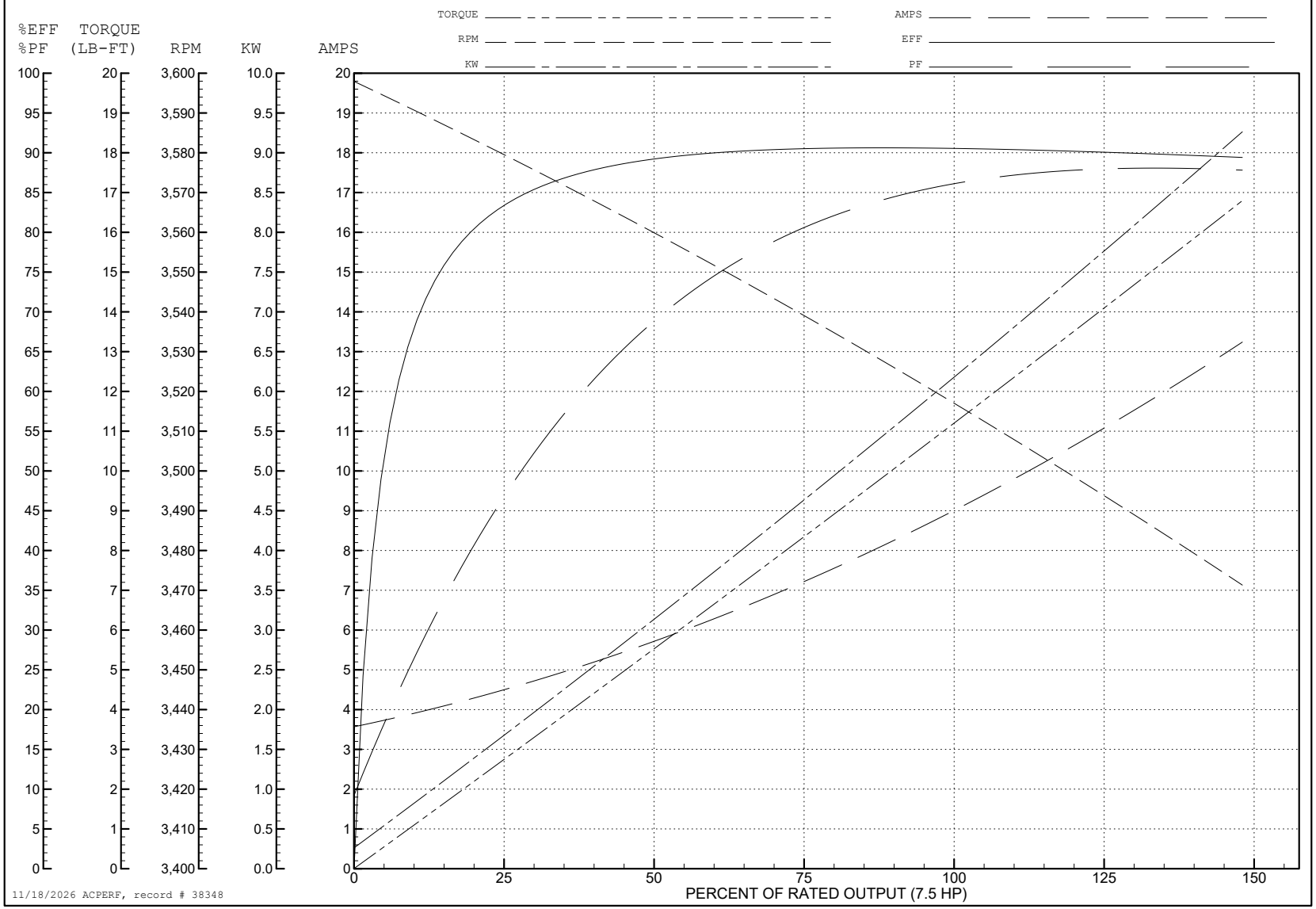
ABB Motors and Mechanical Inc.

WINDING # 37WGR224

7.5 HP 3 PH 60 HZ 3520.3 RPM 460 V 3728M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=40.4 PU=20.6 LR=21.8 LRA=68.4



AC Induction Motor Performance Data
Record # 38350
Typical performance - not guaranteed values

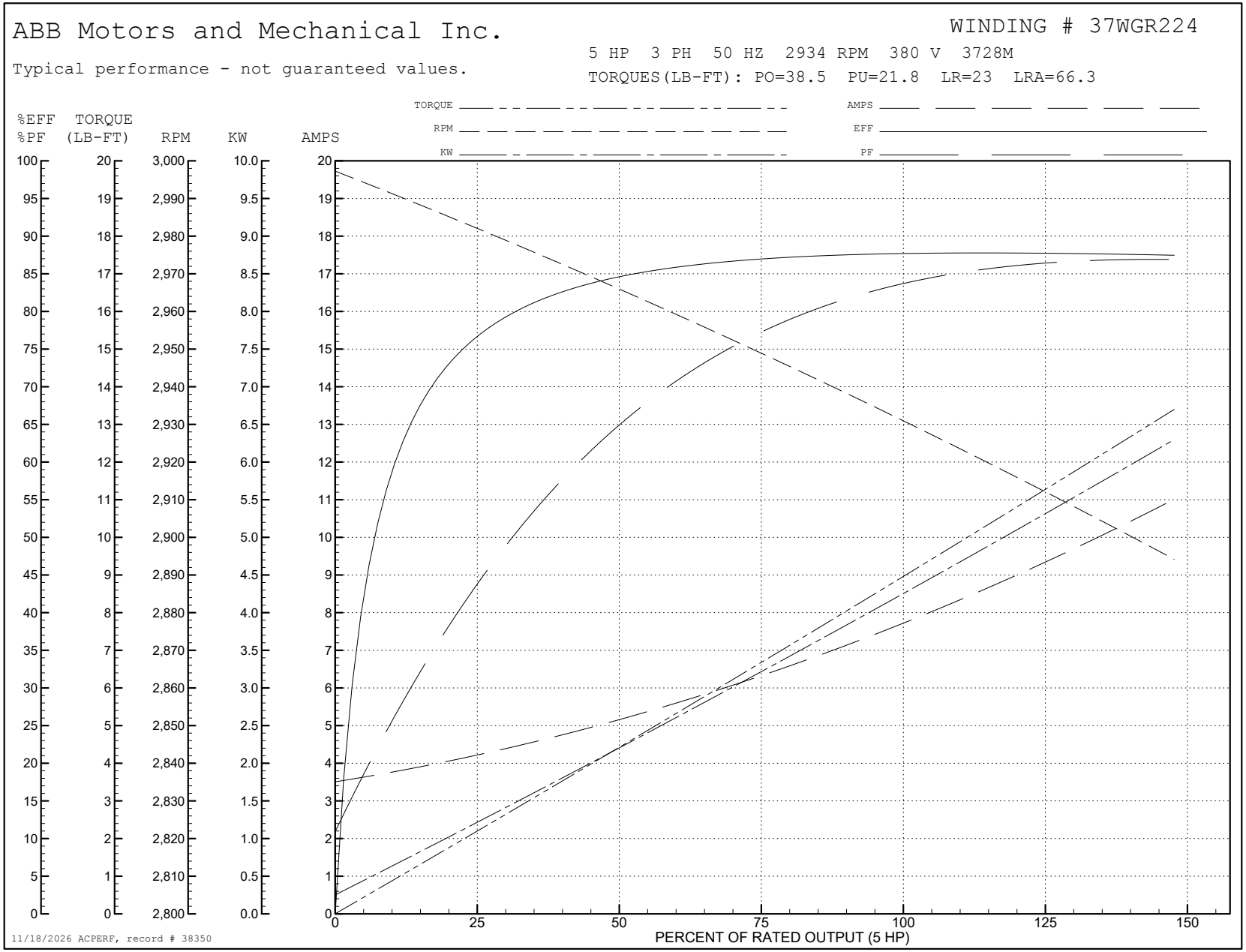
Winding: 37WGR224-R005	**Type:** 3728M	**Enclosure:** XPFC

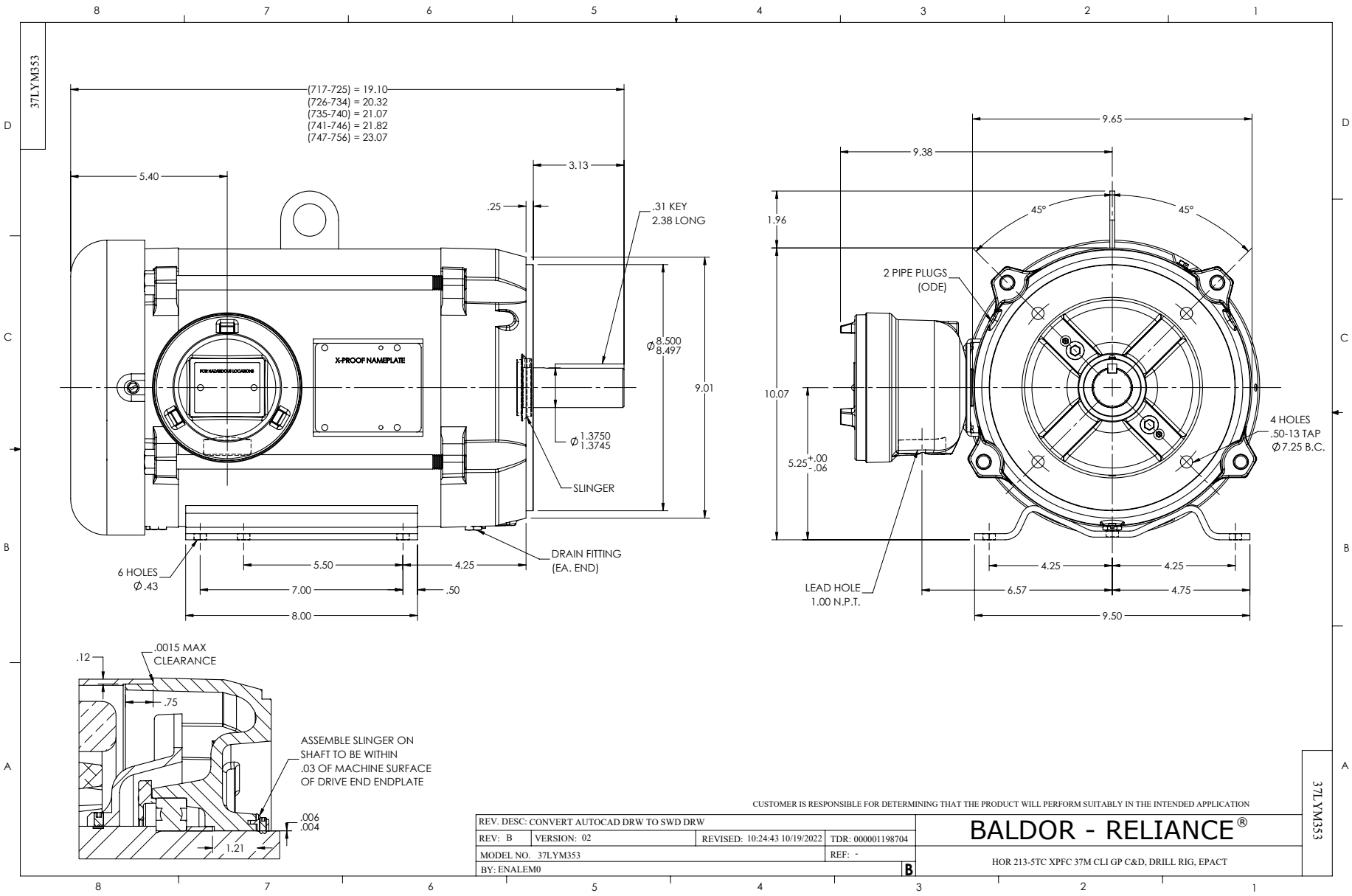
Nameplate Data			
Rated Output (HP)			7.5//5
Volts			208-230/460//190/380
Full Load Amps			19.4-18/9//15.4/7.7
R.P.M.			3520//2930
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	89.5	**Power Factor**	84
Rating - Duty			40C AMB-CONT
S.F. Amps			

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	8.71 LB-FT
Start Configuration	direct on line
Breakdown Torque	38.5 LB-FT
Pull-up Torque	21.8 LB-FT
Locked-rotor Torque	23 LB-FT
Starting Current	66.3 A
No-load Current	3.63 A
Line-line Res. @ 25ºC	1.1 Ω
Temp. Rise @ Rated Load	35°C
Temp. Rise @ S.F. Load	42°C
Locked-rotor Power Factor	37
Rotor inertia	0.255 LB-FT2

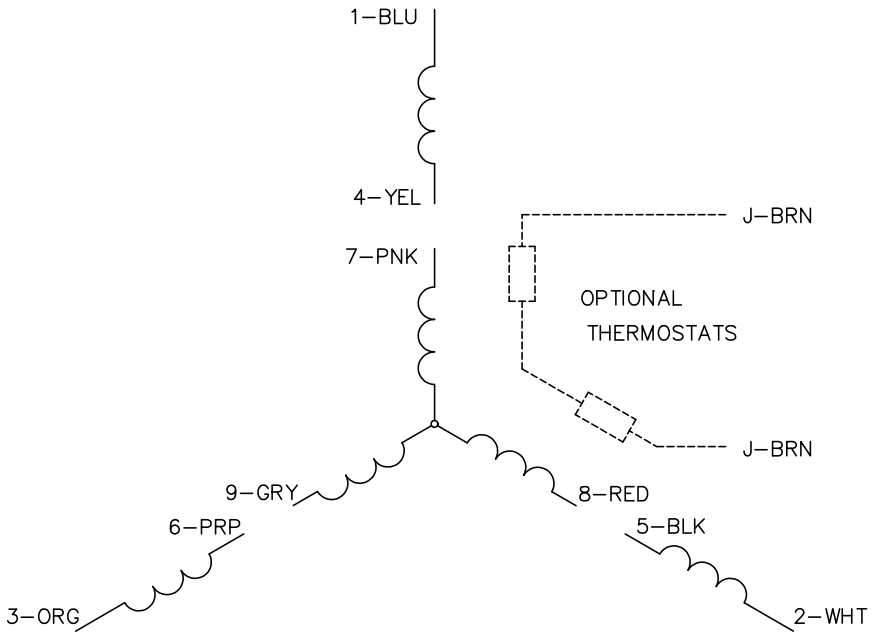
Load Characteristics 380 V, 50 Hz, 5 HP

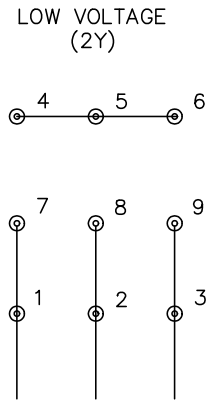
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	42	65	76	82	85	88	84
Efficiency	73.7	83.9	86.9	87.9	87.7	87.5	87.8
Speed	2983	2968	2951	2934	2914	2894	2922
Line amperes	4.01	4.88	6.18	7.66	9.26	10.9	8.62

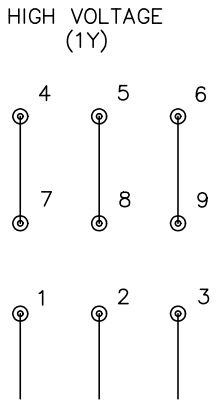

ABB Motors and Mechanical Inc.
WINDING # 37WGR224
5 HP 3 PH 50 HZ 2934 RPM 380 V 3728M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=38.5 PU=21.8 LR=23 LRA=66.3
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/18/2026 ACPERF, record # 38350


37LYM353
(717-725) = 19.10
(726-734) = 20.32
(735-740) = 21.07
(741-746) = 21.82
(747-756) = 23.07
5.40
3.13
.25
.31 KEY
2.38 LONG
X-PROOF NAMEPLATE
FOR HAZARDOUS LOCATIONS
Ø8.500
8.497
9.01
Ø1.3750
1.3745
SLINGER
DRAIN FITTING
(EA. END)
6 HOLES
Ø.43
5.50
4.25
7.00
.50
8.00
9.65
9.38
45°
45°
1.96
2 PIPE PLUGS
(ODE)
10.07
5.25 +.00 -.06
4 HOLES
.50-13 TAP
Ø7.25 B.C.
LEAD HOLE
1.00 N.P.T.
4.25
4.25
6.57
4.75
9.50
.12
.0015 MAX
CLEARANCE
.75
ASSEMBLE SLINGER ON
SHAFT TO BE WITHIN
.03 OF MACHINE SURFACE
OF DRIVE END ENDPLATE
.006
.004
1.21
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: B
VERSION: 02
REVISED: 10:24:43 10/19/2022
TDR: 000001198704
MODEL NO. 37LYM353
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR 213-5TC XPFC 37M CLI GP C&D, DRILL RIG, EPACT
37LYM353

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