ABB BALDOR RELIANCE

Customer information packet

M1212T

20/5HP, 1760/880RPM, 3PH, 60HZ, 256T, 3936M, O
Class -
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	256T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	20.000 HP @ 60 HZ
	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA
	UR
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	26.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	11.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H

Part Detail

Revision	Y
Type	AC
Mech. spec.	39D101
Base	
Status	PRD/A
Elec. spec.	39WGW485
Layout	39LYD101
Eff. date	12-12-2025
CD Diagram	CD0032
Poles	04/08
Leads	6#12
Proprietary	False
Created date	05-08-2006

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3936M
Mounting Arrangement	F1
Number of Poles	4
	8
Overall Length	21.69 IN
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 rpm
	880 rpm
Speed Code	2S-1W-VT
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor

Nameplate

NP1256L											
CAT.NO.	M1212T										
SPEC.	39D101W485										
HP	20/5										
VOLTS	460										
AMP	26/11.5										
RPM	1760/880										
FRAME	256T		**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	H	**DES**	B	**CLASS**	F				
NEMA-NOM-EFF		**PF**									
RATING	40C AMB-CONT										
CC											
DE	6309		**ODE**	6208							
ENCL	OPSB	**SN**									

Accessories

Part number	Description	Multiplier
39-3400	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 12763
Typical performance - not guaranteed values

Winding: 39WGW485-R001	**Type:** 3936M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Speed Connection**	
Rated Output (HP)			20/5	**Full Load Torque**	59.8 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			26/11.5	**Breakdown Torque**	180 LB-FT
R.P.M.			1760/880	**Pull-up Torque**	80.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	94.4 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	162 A
Service Factor (S.F.)			1.15	**No-load Current**	13.1 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	0.635 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	64°C
S.F. Amps				**Temp. Rise @ S.F. Load**	78°C

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	40	62	74	81	84	85	83
Efficiency	83	88.7	89.8	89.6	88.6	88.1	89
Speed	1791	1782	1771	1761	1749	1743	1754
Line amperes	14.3	17.1	21.1	25.9	31.4	34	29.2

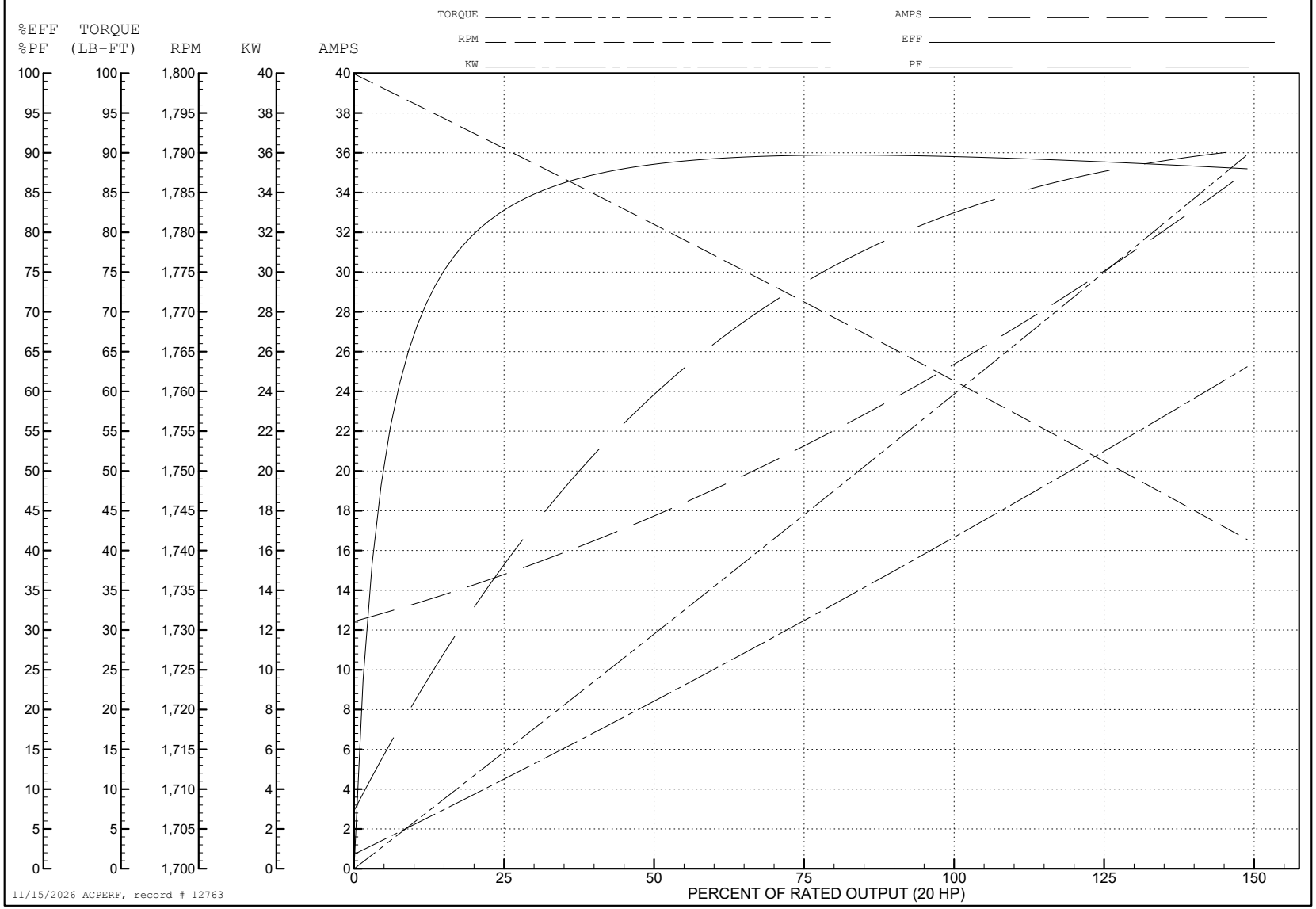
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WINDING # 39WGW485

20 HP 3 PH 60 HZ 1761 RPM 460 V 3936M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=180 PU=80.1 LR=94.4 LRA=162



AC Induction Motor Performance Data
Record # 12764
Typical performance - not guaranteed values

Winding: 39WGW485-R001	**Type:** 3936M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: Low Speed Connection**	
Rated Output (HP)			20/5	**Full Load Torque**	29.8 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			26/11.5	**Breakdown Torque**	84.4 LB-FT
R.P.M.			1760/880	**Pull-up Torque**	30.3 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	36.5 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	38.2 A
Service Factor (S.F.)			1.15	**No-load Current**	8.88 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	2.52 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	57°C
S.F. Amps				**Temp. Rise @ S.F. Load**	66°C

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	20	33	43	51	57	60	55
Efficiency	63.2	75.6	79.9	81.2	80.9	80.2	81
Speed	896	890	887	881	873	868	876
Line amperes	9.02	9.5	10.2	11.3	12.6	13.8	12.08

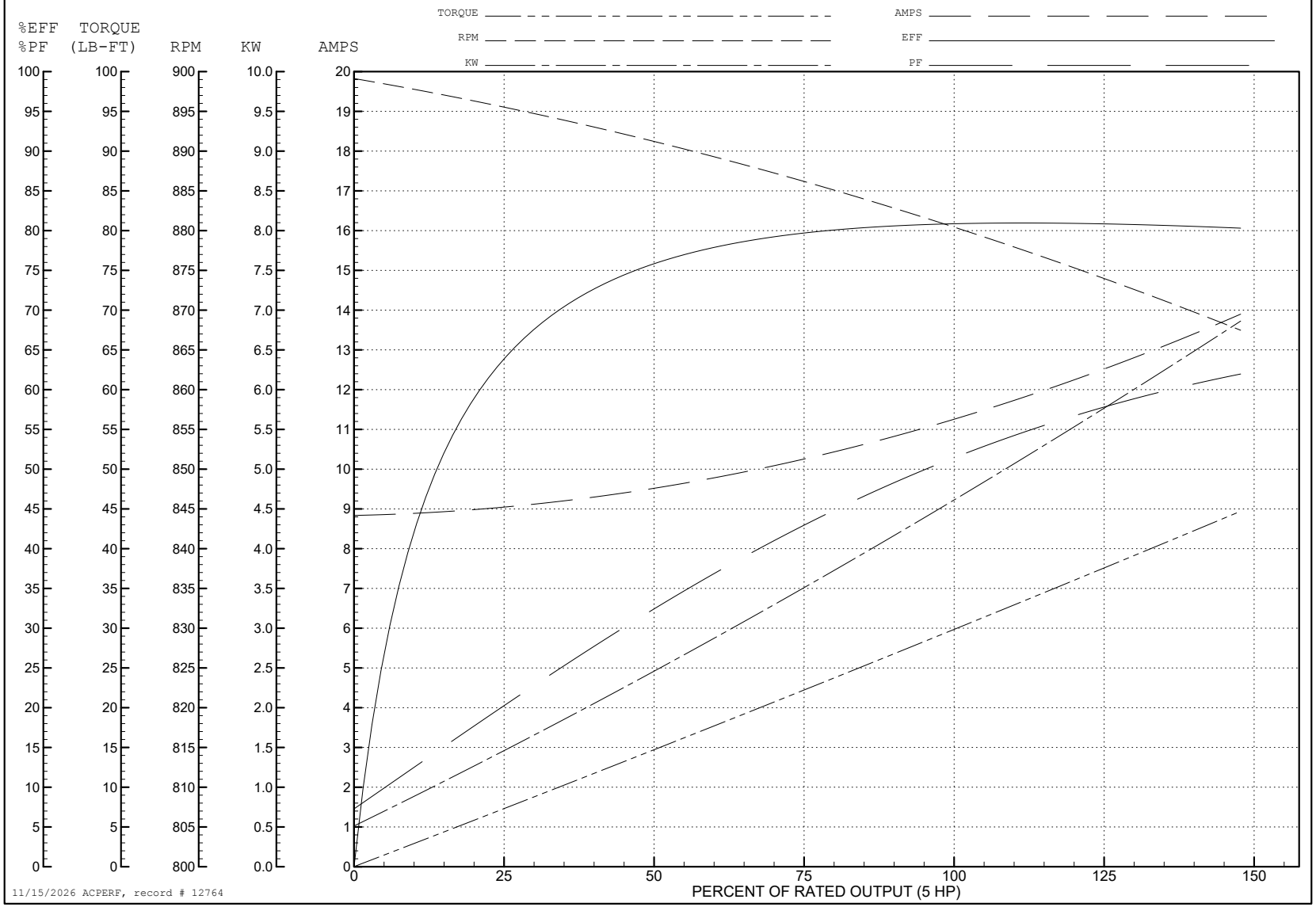
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WINDING # 39WGW485

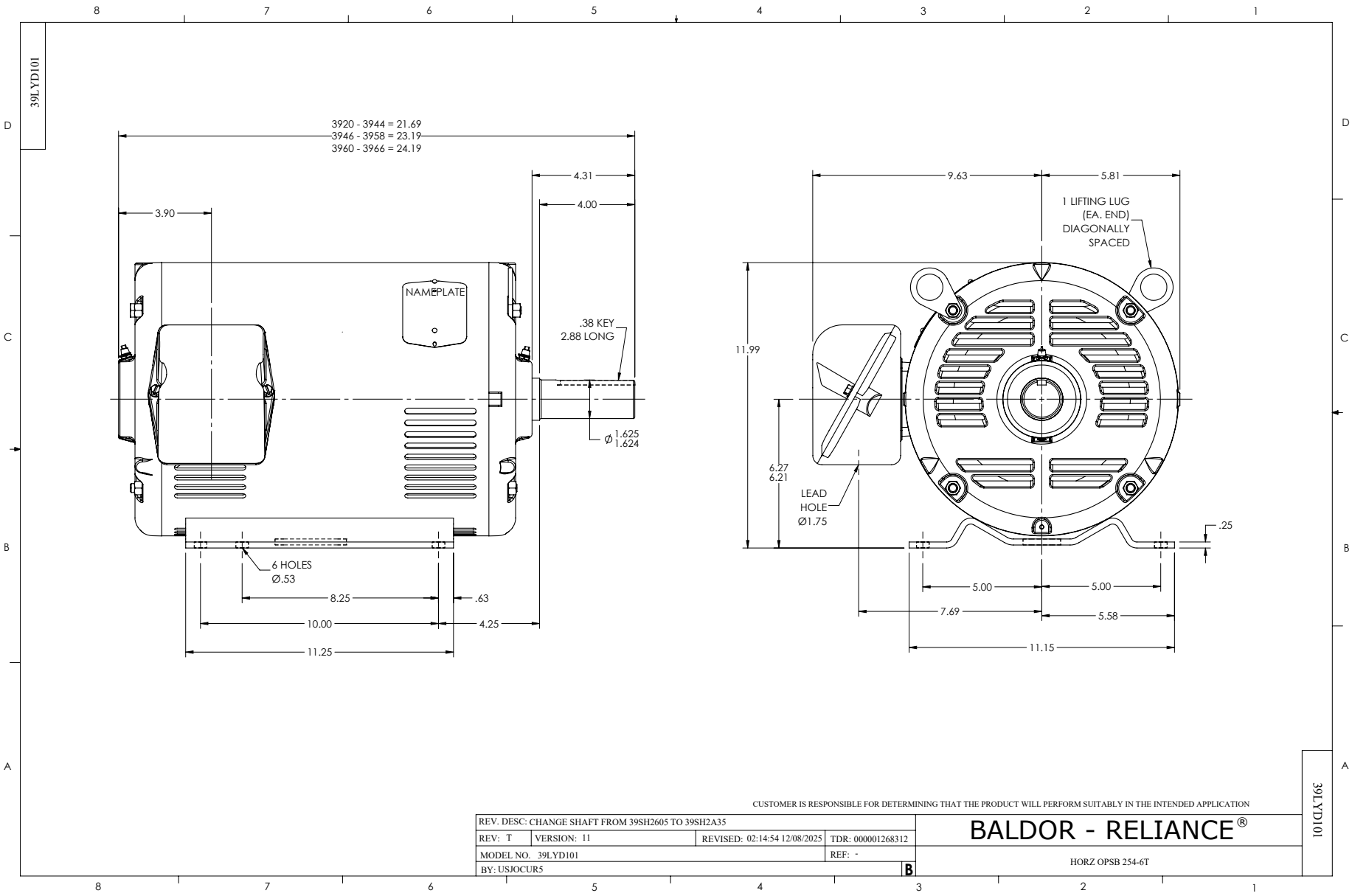
5 HP 3 PH 60 HZ 881 RPM 460 V 3936M

Typical performance - not guaranteed values.

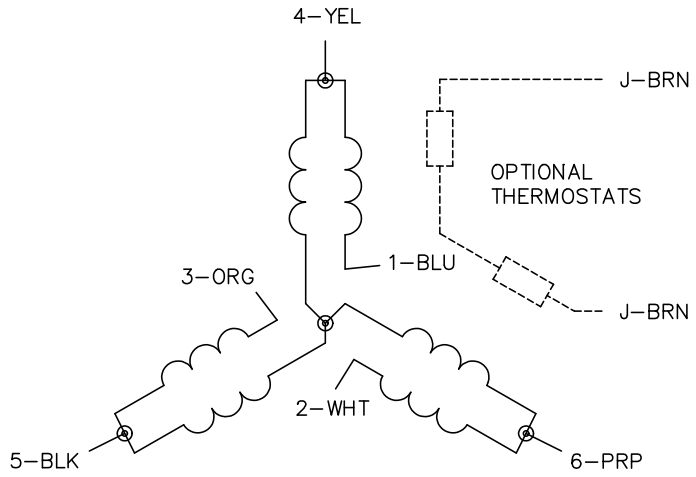
TORQUES(LB-FT): PO=84.4 PU=30.3 LR=36.5 LRA=38.2

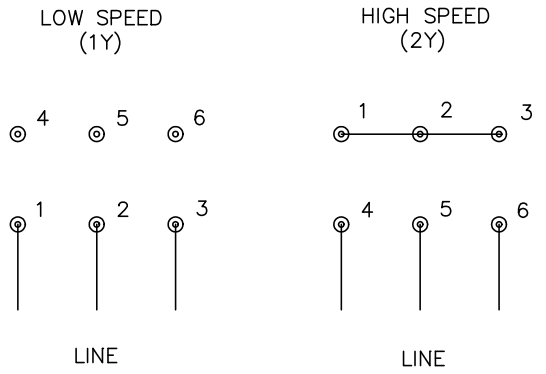


11/15/2026 ACPERF, record # 12764


39LYD101
3920 - 3944 = 21.69
3946 - 3958 = 23.19
3960 - 3966 = 24.19
4.31
4.00
3.90
NAMEPLATE
.38 KEY
2.88 LONG
Ø 1.625
1.624
6 HOLES
Ø.53
8.25
.63
10.00
4.25
11.25
9.63
5.81
1 LIFTING LUG
(EA. END)
DIAGONALLY
SPACED
11.99
6.27
6.21
LEAD
HOLE
Ø1.75
.25
5.00
5.00
7.69
5.58
11.15
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE SHAFT FROM 39SH2605 TO 39SH2A35
REV: T
VERSION: 11
REVISED: 02:14:54 12/08/2025
TDR: 000001268312
MODEL NO. 39LYD101
REF: -
BY: USJOCUR5
B
BALDOR - RELIANCE®
HORZ OPSB 254-6T
39LYD101

CD0032





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.

CD0032

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/22/99 8:27	TDR: 0171435
CD0032		FILE: AAA00005145	MDL: –
		MTL: –	3PH, SV, 6 LEADS, 2–SPEED 1–WINDING VARIABLE TORQUE