

ABB BALDOR RELIANCE III

Customer information packet

M1212T

20/5HP, 1760/880RPM, 3PH, 60HZ, 256T, 3936M, O

Class -

Division - Not Applicable

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. @ 25°C		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

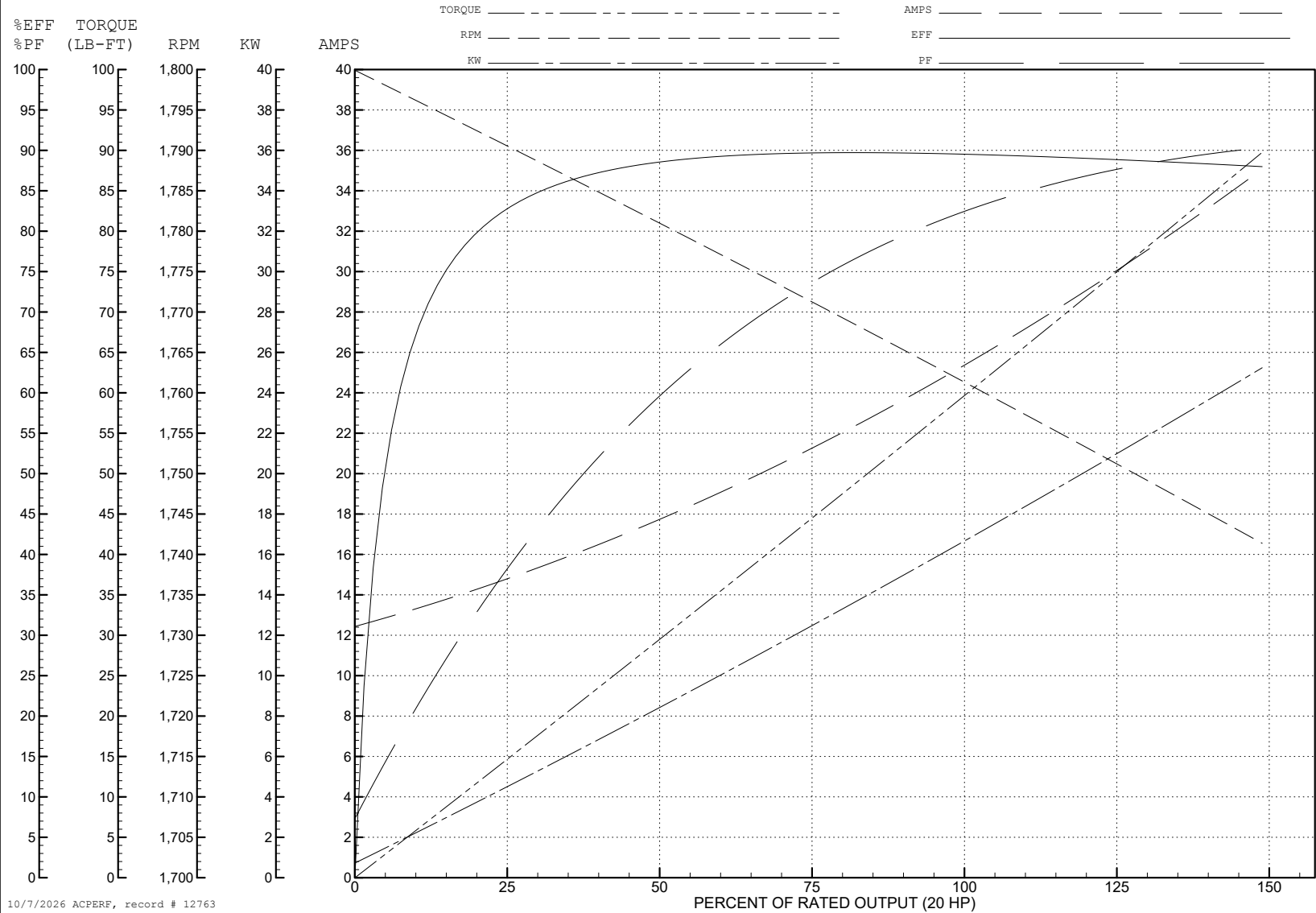
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WINDING # 39WGW485

Typical performance - not guaranteed values.

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

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	Starting Current		38.2 A
Service Factor (S.F.)		1.15		No-load Current		8.88 A
NEMA Nom. Eff.		0	Power Factor	Line-line Res. @ 25°C		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

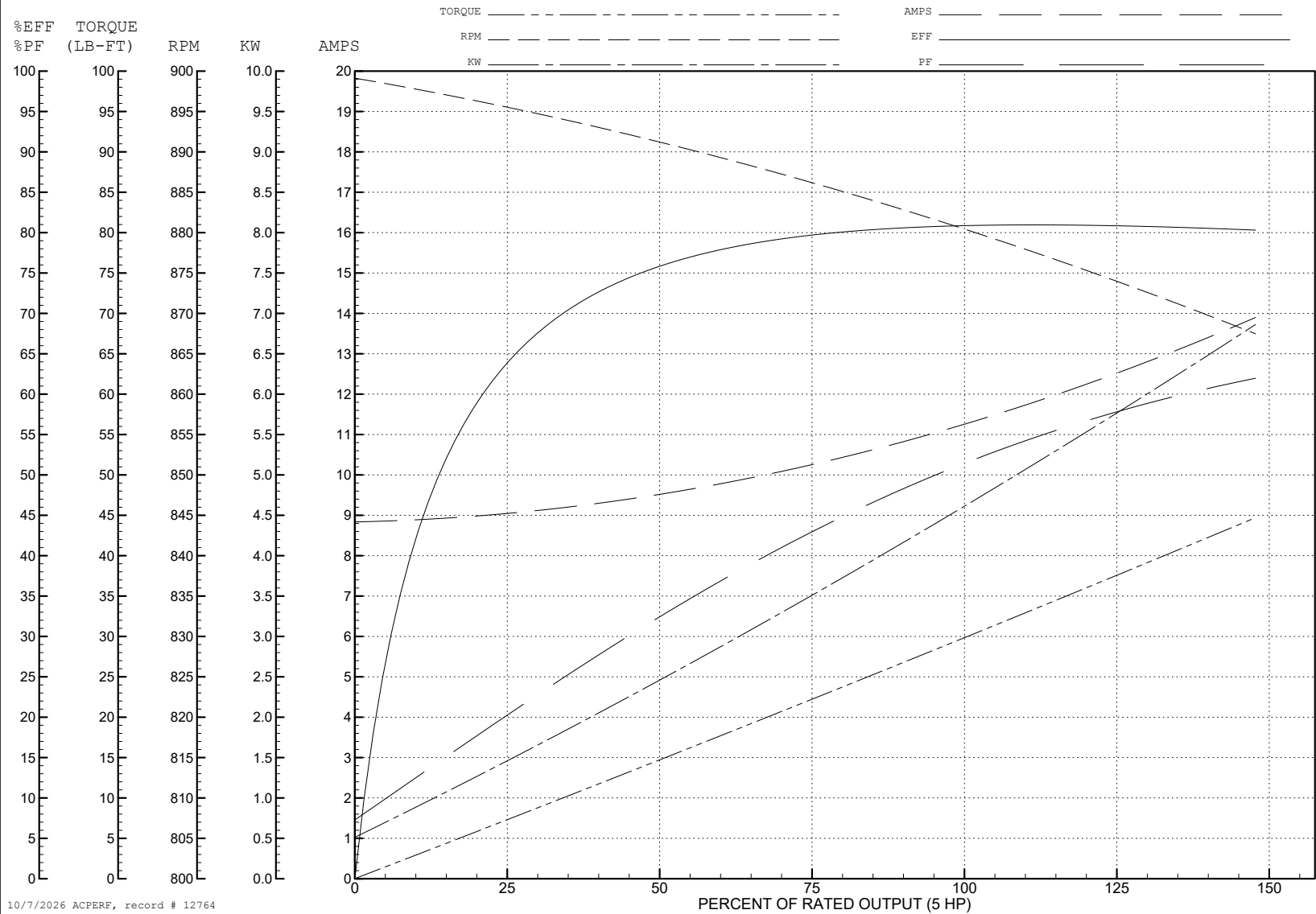
ABB Motors and Mechanical Inc.

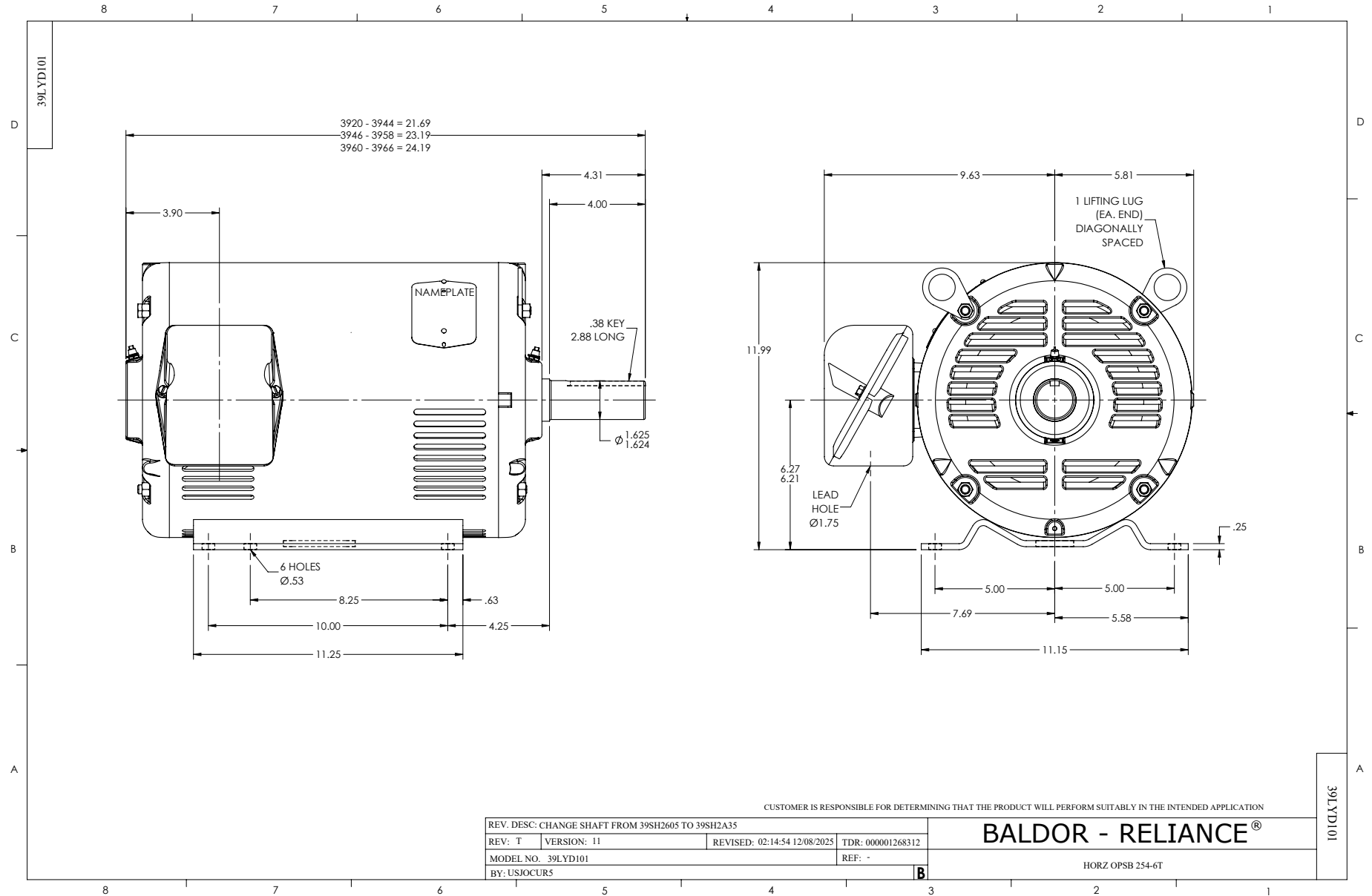
WINDING # 39WGW485

Typical performance - not guaranteed values.

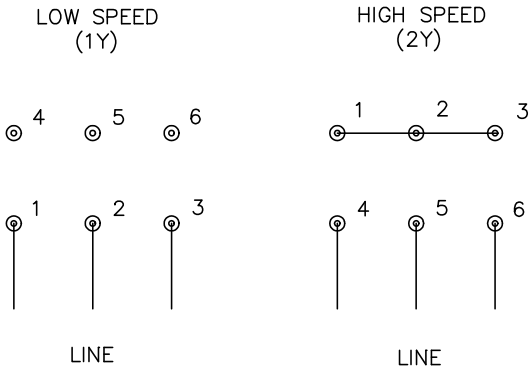
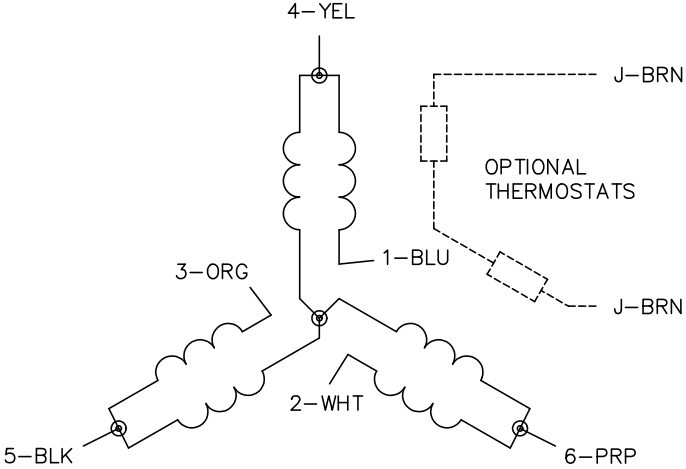
5 HP 3 PH 60 HZ 881 RPM 460 V 3936M

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





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/22/99 8:27	TDR: 0171435
CD0032		FILE: AAA00005145	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, SV, 6 LEADS, 2-SPEED 1-WINDING VARIABLE TORQUE

CD0032