ABB BALDOR RELIANCE

Customer information packet

M3559

3HP, 3450RPM, 3PH, 60HZ, 56/56H, 3528M, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	56/56H
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
	208.0 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	8.100 A @ 208.0 V
	7.600 A @ 230.0 V
	3.800 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	AD
Type	AC
Mech. spec.	35H876
Base	
Status	INA/A
Elec. spec.	35WGT123
Layout	35LYH876
Eff. date	03-08-2016
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	06-22-2007

Heater Indicator	No Heater
High Voltage Full Load Amps	3.8 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.91 IN
Power Factor	89
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	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 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

NP1256L									
CAT.NO.	M3559								
SPEC.	35H876T123								
HP	3								
VOLTS	208-230/460								
AMP	8.1-7.6/3.8								
RPM	3450								
FRAME	56/56H	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	K	**DES**	B	**CLASS**	F		
NEMA-NOM-EFF	82.5	**PF**	89						
RATING	40C AMB-CONT								
CC									
DE	6205	**ODE**	6203						
ENCL	TEFC	**SN**							

Accessories

Part number	Description	Multiplier
35-8762	C FACE KIT	A8
35EP1506A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data
Record # 16432
Typical performance - not guaranteed values

Winding: 35WGT123-R001	**Type:** 3528M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	4.6 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			8.1-7.6/3.8	**Breakdown Torque**	19.7 LB-FT
R.P.M.			3450	**Pull-up Torque**	13.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	17.5 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	32.9 A
Service Factor (S.F.)			1.15	**No-load Current**	1.4 A
NEMA Nom. Eff.	82.5	**Power Factor**	89	**Line-line Res. @ 25ºC**	5.1 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	68°C
S.F. Amps				**Temp. Rise @ S.F. Load**	82°C
				Locked-rotor Power Factor	49
				Rotor inertia	0.0774 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	55	74	83	87	88	88	88
Efficiency	76	83	84.3	84	82.7	80.6	83.2
Speed	3559	3525	3490	3452	3409	3358	3426
Line amperes	1.7	2.3	3	3.8	4.7	5.7	4.3

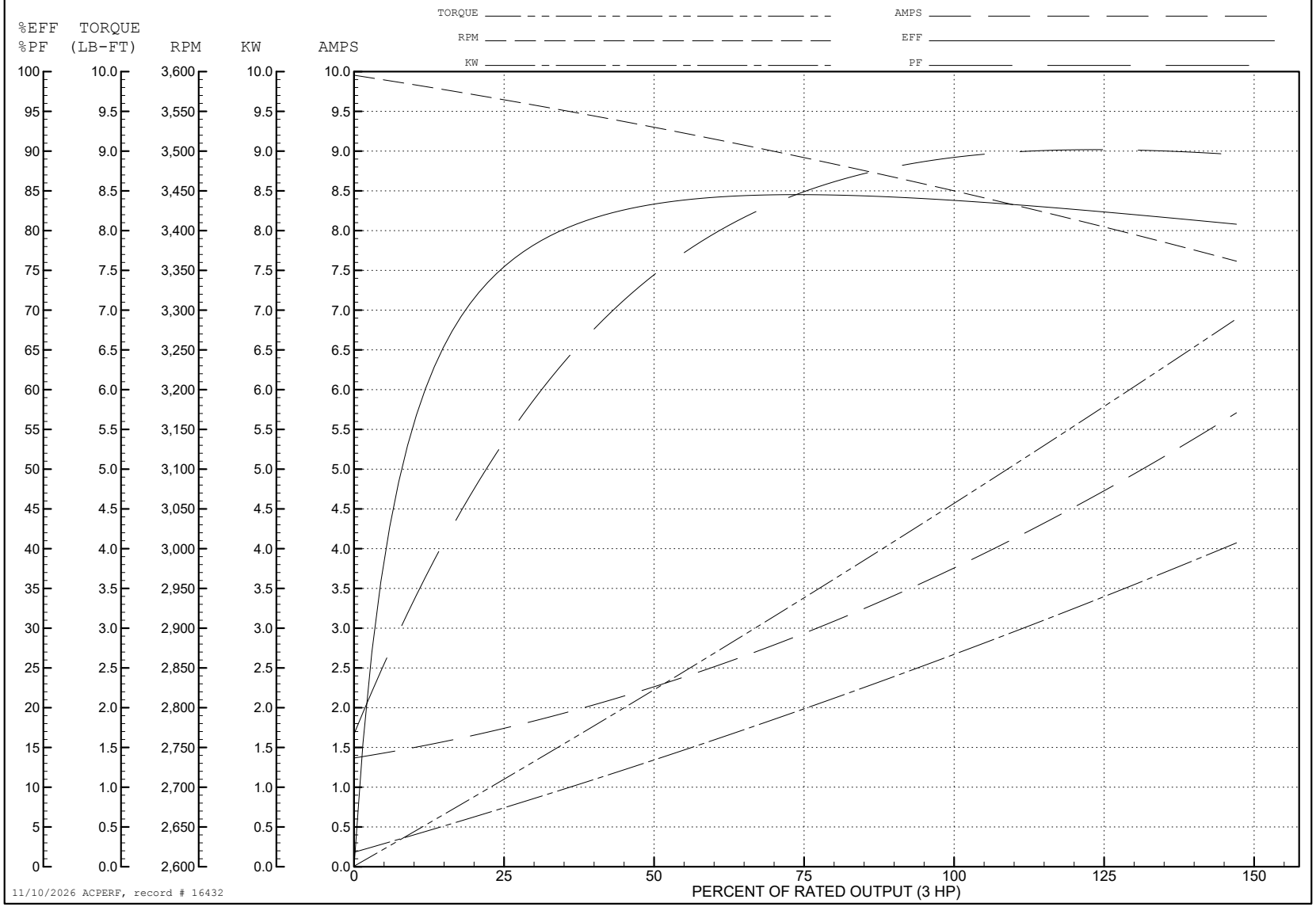
ABB Motors and Mechanical Inc.

WINDING # 35WGT123

3 HP 3 PH 60 HZ 3450 RPM 460 V 3528M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=19.7 PU=13.1 LR=17.5 LRA=32.9



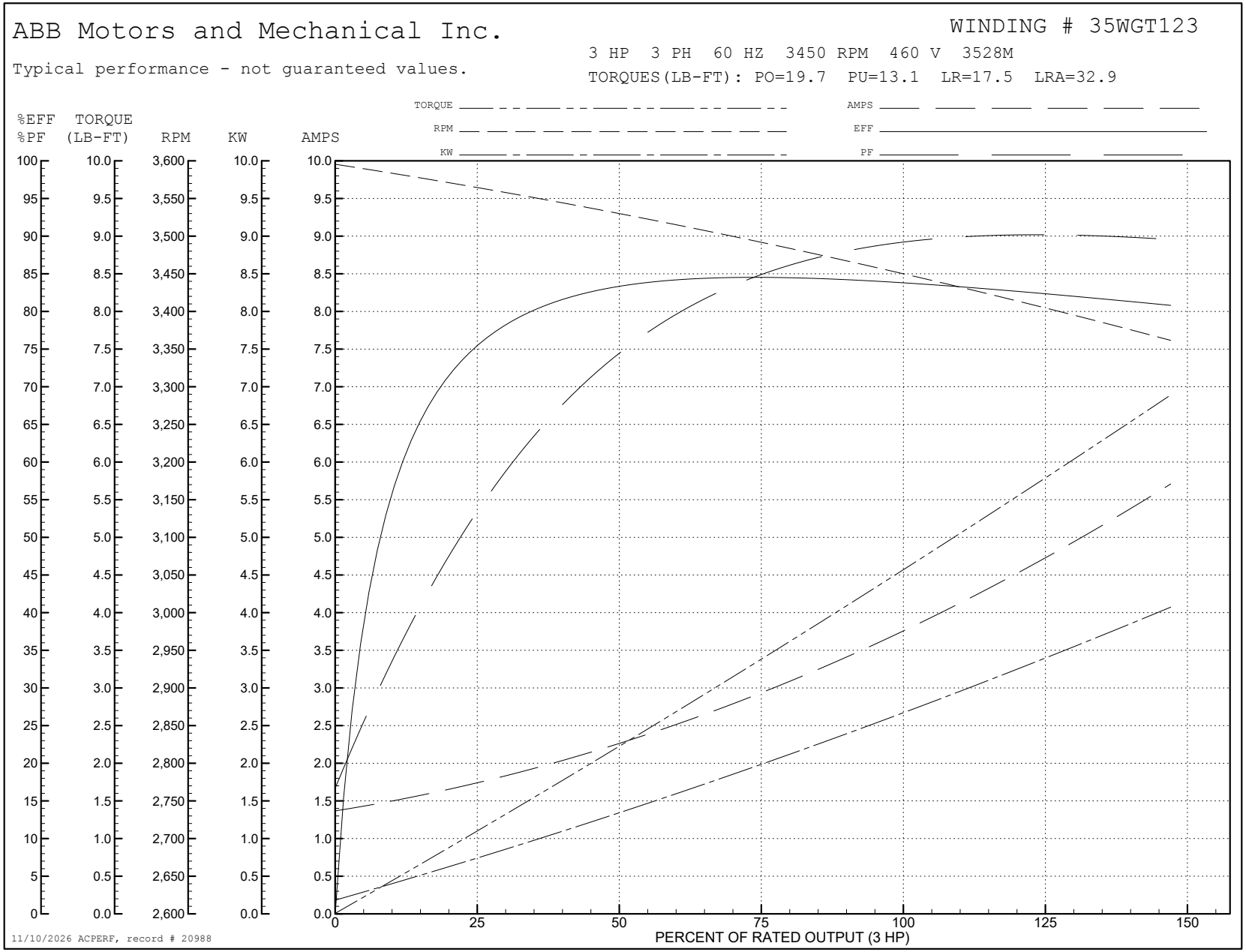
AC Induction Motor Performance Data
Record # 20988
Typical performance - not guaranteed values

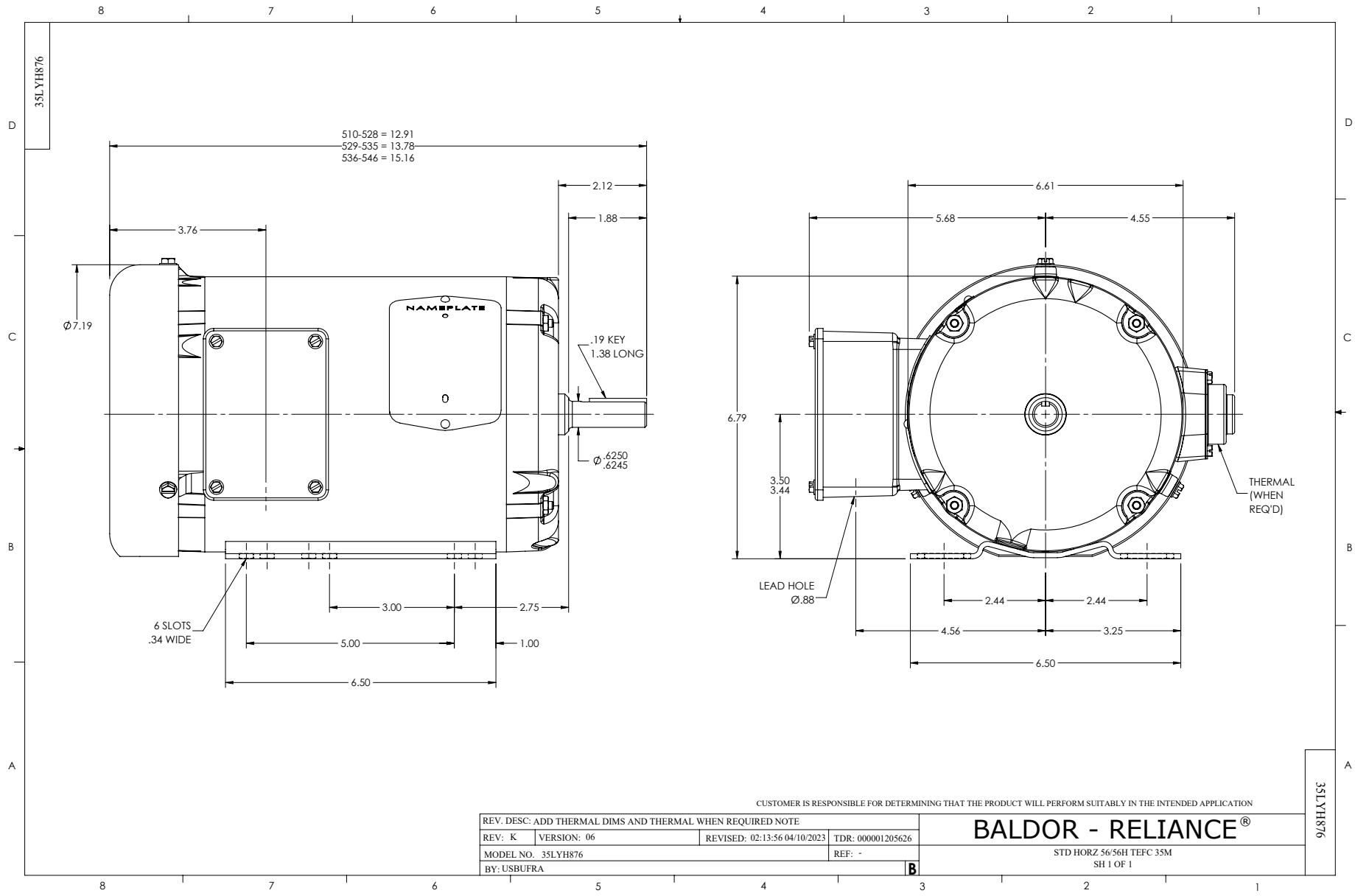
Winding: 35WGT123-R004	**Type:** 3528M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	4.6 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			8.1-7.6/3.8	**Breakdown Torque**	19.7 LB-FT
R.P.M.			3450	**Pull-up Torque**	13.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	17.5 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	32.9 A
Service Factor (S.F.)			1.15	**No-load Current**	1.4 A
NEMA Nom. Eff.	82.5	**Power Factor**	89	**Line-line Res. @ 25ºC**	5.1 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	68°C
S.F. Amps				**Temp. Rise @ S.F. Load**	82°C
				Locked-rotor Power Factor	49
				Rotor inertia	0.0774 LB-FT2

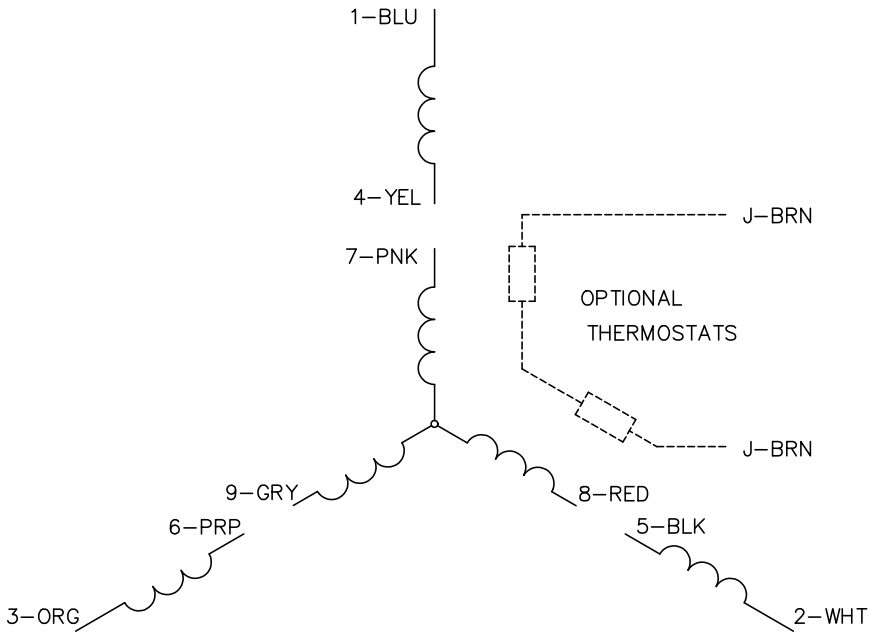
Load Characteristics 460 V, 60 Hz, 3 HP

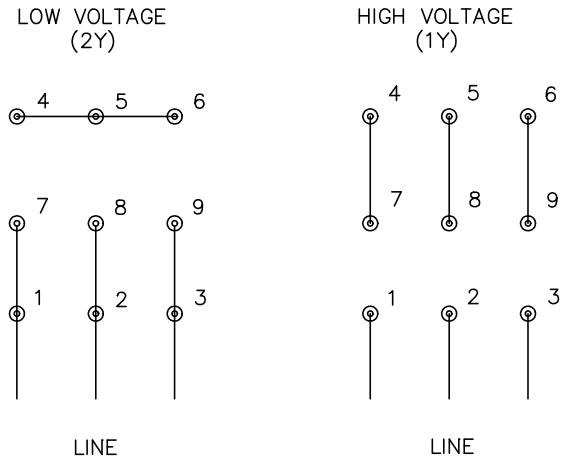
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	55	74	83	87	88	88	88
Efficiency	76	83	84.3	84	82.7	80.6	83.2
Speed	3559	3525	3490	3452	3409	3358	3426
Line amperes	1.7	2.3	3	3.8	4.7	5.7	4.3


ABB Motors and Mechanical Inc.
WINDING # 35WGT123
3 HP 3 PH 60 HZ 3450 RPM 460 V 3528M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=19.7 PU=13.1 LR=17.5 LRA=32.9
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/10/2026 ACPERF, record # 20988


35LYH876
510-528 = 12.91
529-535 = 13.78
536-546 = 15.16
2.12
1.88
3.76
Ø7.19
NAMEPLATE
.19 KEY
1.38 LONG
Ø .6250
.6245
6 SLOTS
.34 WIDE
3.00
2.75
5.00
1.00
6.50
6.61
5.68
4.55
6.79
3.50
3.44
THERMAL
(WHEN
REQ'D)
LEAD HOLE
Ø.88
2.44
2.44
4.56
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD THERMAL DIMS AND THERMAL WHEN REQUIRED NOTE
REV: K
VERSION: 06
REVISED: 02:13:56 04/10/2023
TDR: 000001205626
MODEL NO. 35LYH876
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 56/56H TEFC 35M
SH 1 OF 1
35LYH876

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