ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *ABB / Baldor / Reliance EBM3558TY* at our website: *Click HERE*

BALDOR • RELIANCE

Product Information Packet

EBM3558T

2HP,1755RPM,3PH,60HZ,145T,3528M,TEFC,F1

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.

Part Detail

Revision:	J	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	35WGN909	**CD Diagram:**	CD0005	**Mfg Plant:**	
Mech. Spec:	35X075	**Layout:**	35LYX075	**Poles:**	04	**Created Date:**	06-20-2013
Base:	RG	**Eff. Date:**	10-01-2020	**Leads:**	9#18		

Specs

Catalog Number:	EBM3558T	**Insulation Class:**	F
Enclosure:	TEFC	**Inverter Code:**	Inverter Ready
Frame:	145T	**KVA Code:**	L
Frame Material:	Steel	**Lifting Lugs:**	No Lifting Lugs
Output @ Frequency:	2.000 HP @ 60 HZ	**Locked Bearing Indicator:**	No Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	**Motor Lead Quantity/Wire Size:**	9 @ 18 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	**Motor Lead Exit:**	Ko Box
	230.0 V @ 60 HZ	**Motor Lead Termination:**	Flying Leads
XP Class and Group:	None	**Motor Type:**	3528M
XP Division:	Not Applicable	**Mounting Arrangement:**	F1
Agency Approvals:	UR	**Power Factor:**	75
	CSA EEV	**Product Family:**	General Purpose
	CSA	**Product Type:**	BRAKE MOTOR
Auxillary Box:	No Auxillary Box	**Pulley End Bearing Type:**	Ball
Auxillary Box Lead Termination:	None	**Pulley Face Code:**	Standard
Base Indicator:	Rigid	**Pulley Shaft Indicator:**	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	**Rodent Screen:**	None
Blower:	None	**Shaft Extension Location:**	Pulley End

Current @ Voltage:	2.900 A @ 460.0 V	**Shaft Ground Indicator:**	No Shaft Grounding
	5.800 A @ 230.0 V	**Shaft Rotation:**	Reversible
	6.600 A @ 208.0 V	**Shaft Slinger Indicator:**	No Slinger
Design Code:	B	**Speed Code:**	Single Speed
Drip Cover:	No Drip Cover	**Motor Standards:**	NEMA
Duty Rating:	CONT	**Starting Method:**	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	**Thermal Device - Bearing:**	None
Feedback Device:	NO FEEDBACK	**Thermal Device - Winding:**	None
Front Face Code:	Brake Mounting	**Vibration Sensor Indicator:**	No Vibration Sensor
Front Shaft Indicator:	None	**Winding Thermal 1:**	None
Heater Indicator:	No Heater	**Winding Thermal 2:**	None

Nameplate NP1259L

CAT.NO.	EBM3558T								
SPEC.	35X075N909G1								
HP	2								
VOLTS	230/460								
AMP	5.8/2.9								
RPM	1755								
FRAME	145T		**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	L	**DES**	B	**CL**	F		
NEMA-NOM-EFF	86.5	**PF**	75						
RATING	40C AMB-CONT								
CC	010A					**USABLE AT 208V**	6.6		
DE	6205			**ODE**	6203				
ENCL	TEFC	**SN**							

Parts List

Part Number	Description	Quantity
SA264993	SA 35X075N909G1	1.000 EA
RA251698	RA 35X075N909G1	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 EA
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
35EP3900T02	SPL FACE MTD FR EP-ENCL-W/STEARNS BRAKE	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3123F00	MASTER DE,205 BRG,.998SH,#26 DRN,GRSR	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HA1014A02SP	SPL SPACER FOR FAN COVER MTD ON BRAKE	3.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	3.000 EA
BR1003A01	BRAKE RELEASE LEVER	1.000 EA
HW2501D08	KEY, 3/16 SQ X .875 AUTO	1.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH5000A08	FAN COVER ASSY FOR BRAKE MTRS,W/ PRIMER	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB4521GX	CONDUIT BOX LID KIT **ORDER INDIV PARTS	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA

Parts List (continued)

Part Number	Description	Quantity
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
35FN3002A01SP	EXFN, PLASTIC, 6.376 OD, .625 ID W/FLAT	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.017 GA
HA3100A18	THRUBOLT 10-32 X 9.250	4.000 EA
76BK3100BQF	1-056-031-00-BQF BRAKE TDR# 79345	1.000 EA
84XN3816J28	HEX SOC HD, 3/8-16 X 1.75 LONG	2.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
LB1404	BRAKE CONNECTION LABEL	1.000 EA
NP1259L	ALUM SUPER-E UL CSA-EEV CC NEMA PREMIUM	1.000 EA
G7PA1000	PKG GRP, PRINT PK1034A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 EA
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA

AC Induction Motor Performance Data
Record # 53344
Typical performance - not guaranteed values

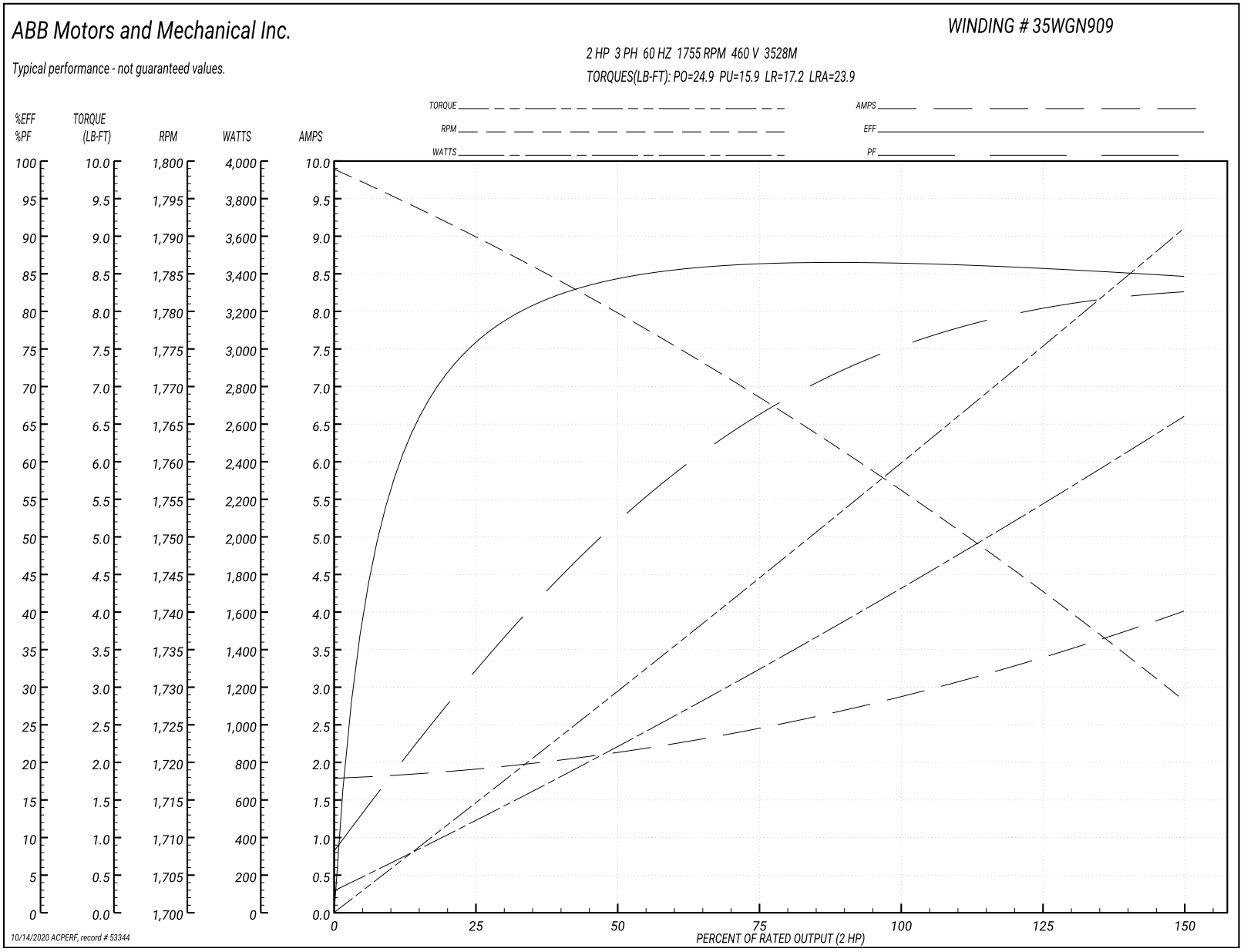
Winding: 35WGN909-R032	**Type:** 3528M	**Enclosure:** TEFC

Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		2	**Full Load Torque**	5.99 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		5.8/2.9	**Breakdown Torque**	24.9 LB-FT
R.P.M.		1755	**Pull-up Torque**	15.9 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	17.2 LB-FT
NEMA Design Code	B **KVA Code**	L	**Starting Current**	23.9 A
Service Factor (S.F.)		1.15	**No-load Current**	1.81 A
NEMA Nom. Eff.	86.5 **Power Factor**	75	**Line-line Res. @ 25ºC**	8.02 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	65°C
S.F. Amps			**Temp. Rise @ S.F. Load**	77°C
			Locked-rotor Power Factor	52.4
			Rotor inertia	0.165 LB-FT2

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	33	53	66	74	80	83	78
Efficiency	75.5	84	86.3	86.5	85.8	84.5	86.2
Speed	1790	1779	1769	1756	1743	1728	1748
Line amperes	1.89	2.11	2.46	2.91	3.4	4	3.2

Performance Graph at 460V, 60Hz, 2.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data
Record # 57956
Typical performance - not guaranteed values

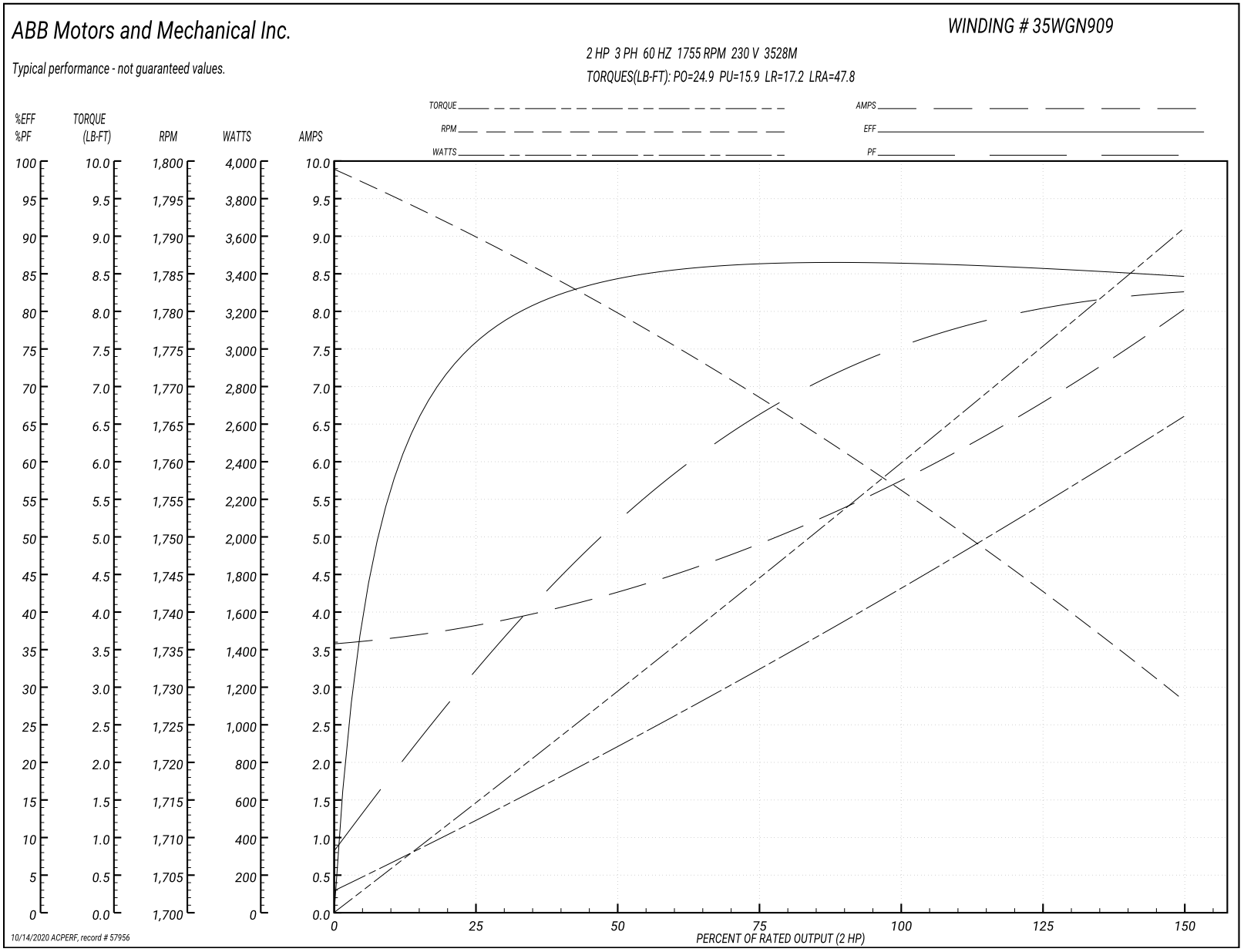
Winding: 35WGN909-R032	**Type:** 3528M	**Enclosure:** TEFC

Nameplate Data			**230 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)		2	**Full Load Torque**	5.99 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		5.8/2.9	**Breakdown Torque**	24.9 LB-FT
R.P.M.		1755	**Pull-up Torque**	15.9 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	17.2 LB-FT
NEMA Design Code	B **KVA Code**	L	**Starting Current**	47.8 A
Service Factor (S.F.)		1.15	**No-load Current**	3.62 A
NEMA Nom. Eff.	86.5 **Power Factor**	75	**Line-line Res. @ 25ºC**	2 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	65°C
S.F. Amps			**Temp. Rise @ S.F. Load**	77°C
			Locked-rotor Power Factor	52.4
			Rotor inertia	0.165 LB-FT2

Load Characteristics 230 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	33	53	66	74	80	83	78
Efficiency	75.6	84.1	86.4	86.6	85.9	84.6	86.2
Speed	1790	1779	1769	1756	1743	1728	1748
Line amperes	3.78	4.22	4.92	5.82	6.8	8	6.41

Performance Graph at 230V, 60Hz, 2.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data
Record # 73870
Typical performance - not guaranteed values

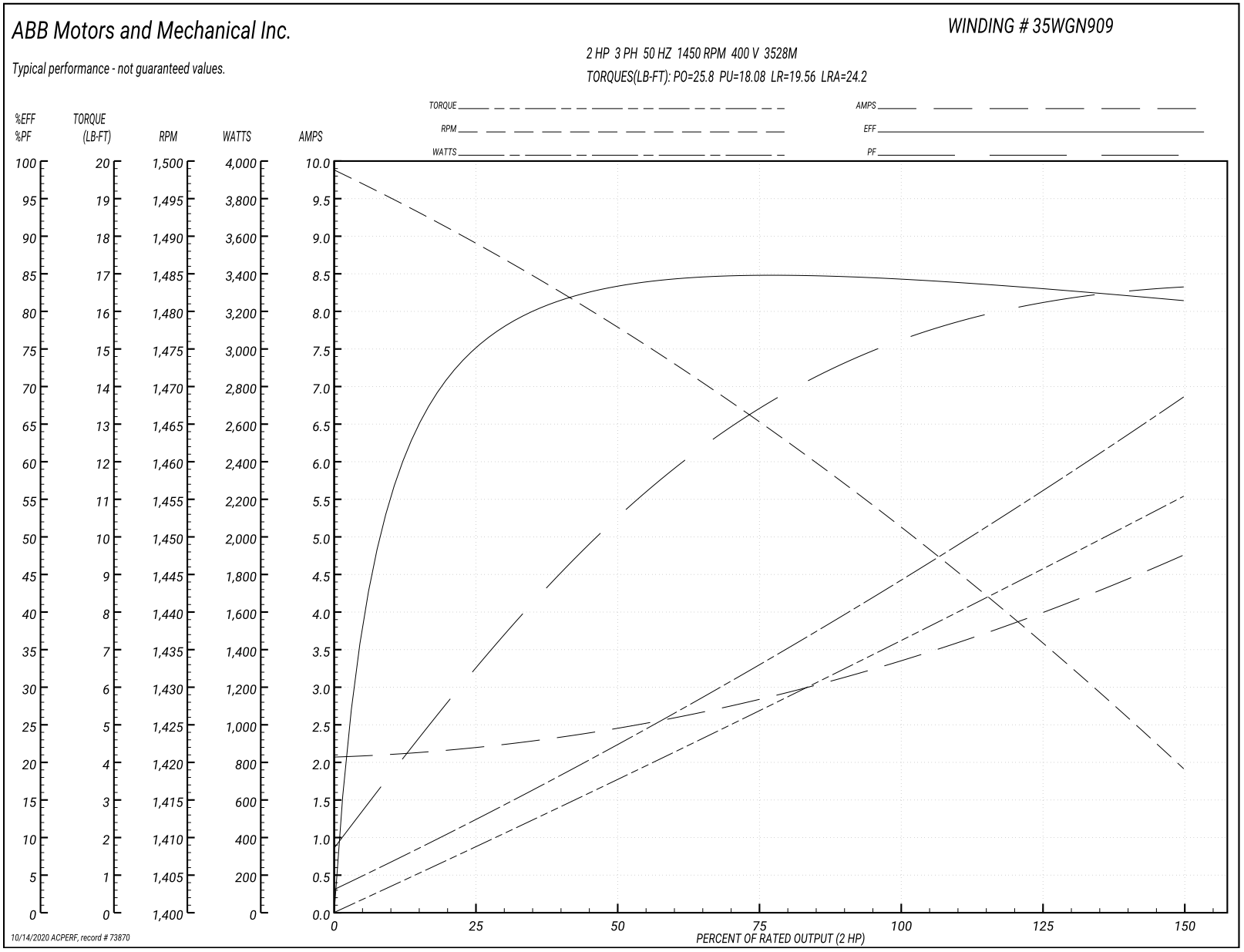
Winding: 35WGN909-R032 **Type:** 3528M **Enclosure:** TEFC

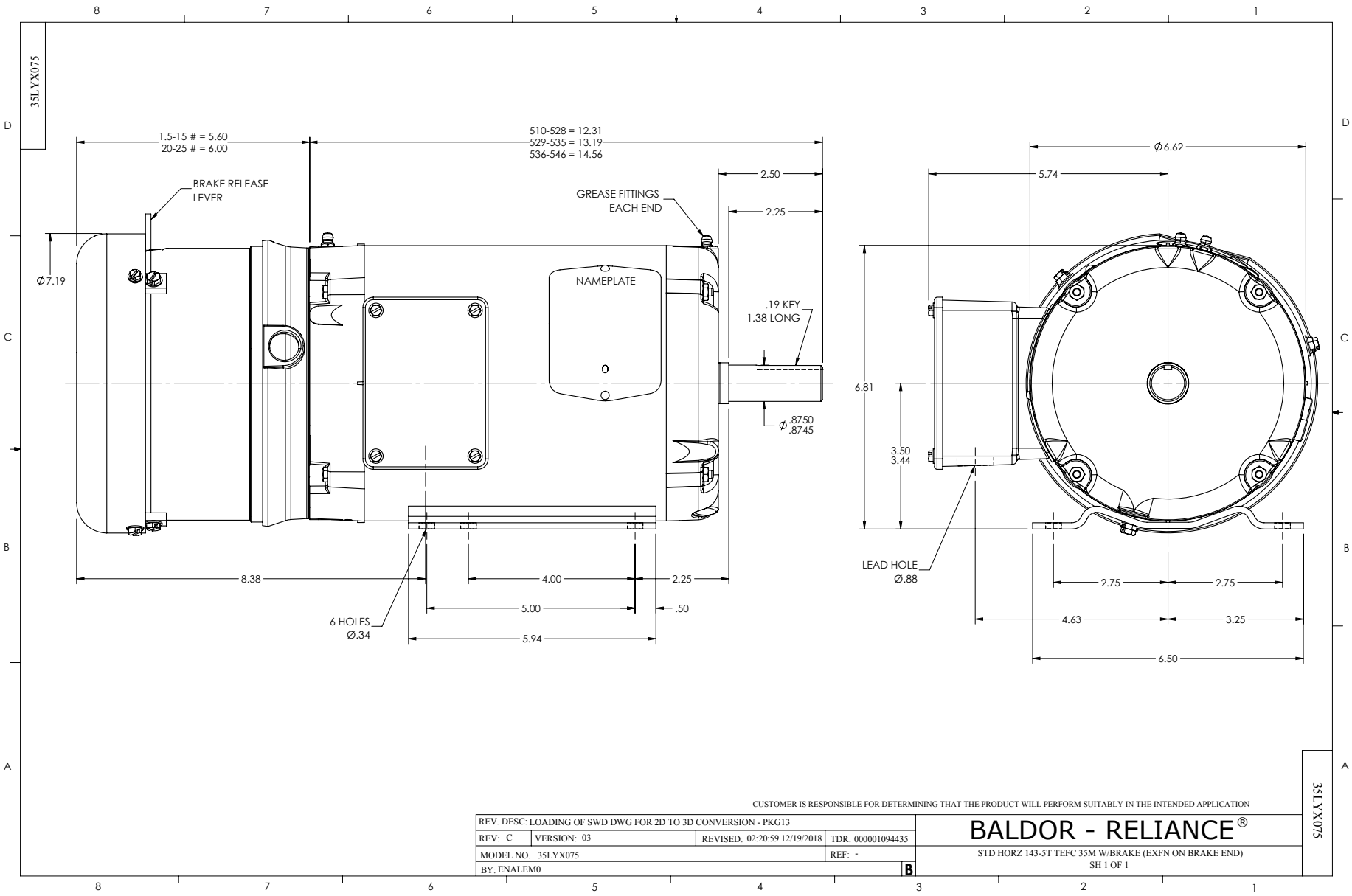
Nameplate Data			400 V, 50 Hz: High Voltage Connection	
Rated Output (HP)		2	**Full Load Torque**	7.25 LB-FT
Volts		200/400	**Start Configuration**	direct on line
Full Load Amps		6.8/3.4	**Breakdown Torque**	25.8 LB-FT
R.P.M.		1450	**Pull-up Torque**	18.08 LB-FT
Hz	50 **Phase**	3	**Locked-rotor Torque**	19.56 LB-FT
NEMA Design Code	B **KVA Code**	K	**Starting Current**	24.2 A
Service Factor (S.F.)		1.15	**No-load Current**	2.09 A
NEMA Nom. Eff.	84.5 **Power Factor**	75	**Line-line Res. @ 25ºC**	8.02 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	85°C
S.F. Amps			**Temp. Rise @ S.F. Load**	104°C
			Locked-rotor Power Factor	58.9
			Rotor inertia	0.165 LB-FT2

Load Characteristics 400 V, 50 Hz, 2 HP

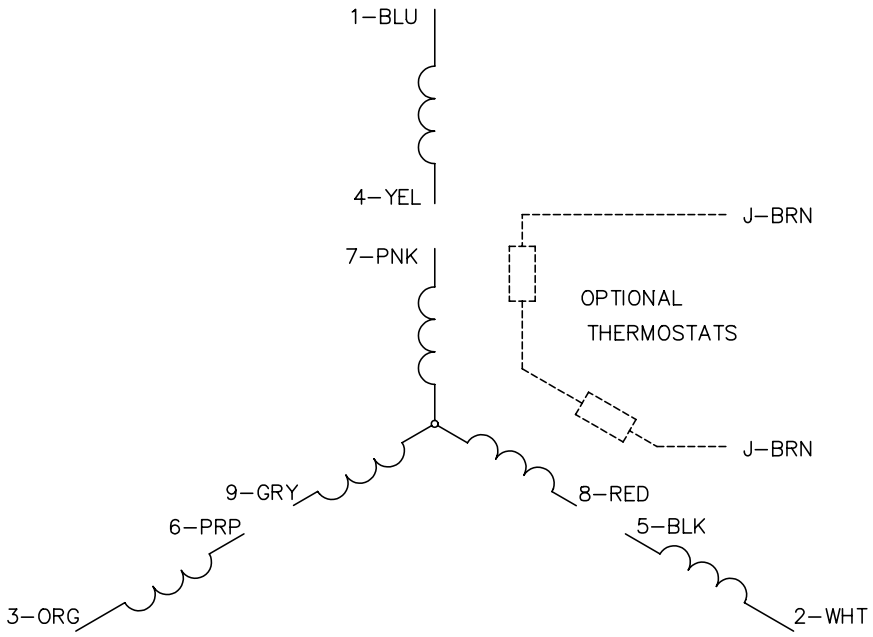
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	54	67	75	81	84	79
Efficiency	74.5	82.9	84.7	84.5	83.2	81.2	83.7
Speed	1489	1477	1466	1451	1436	1419	1442
Line amperes	2.18	2.43	2.85	3.39	3.99	4.75	3.75

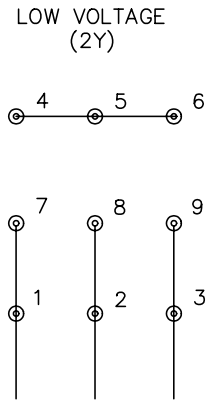
Performance Graph at 400V, 50Hz, 2.0HP Typical performance - Not guaranteed values

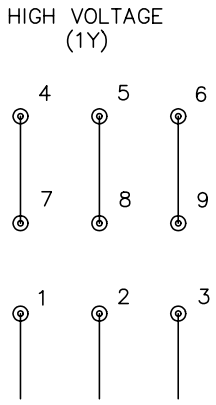



35LYX075
1.5-15 # = 5.60
20-25 # = 6.00
510-528 = 12.31
529-535 = 13.19
536-546 = 14.56
BRAKE RELEASE LEVER
GREASE FITTINGS EACH END
2.50
2.25
Ø7.19
NAMEPLATE
.19 KEY
1.38 LONG
Ø .8750
.8745
8.38
4.00
2.25
5.00
.50
5.94
6 HOLES
Ø.34
Ø6.62
5.74
6.81
3.50
3.44
LEAD HOLE
Ø.88
2.75
2.75
4.63
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF SWD DWG FOR 2D TO 3D CONVERSION - PKG13
REV: C
VERSION: 03
REVISED: 02:20:59 12/19/2018
TDR: 000001094435
MODEL NO. 35LYX075
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 143-5T TEFC 35M W/BRAKE (EXFN ON BRAKE END)
SH 1 OF 1
35LYX075

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

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP