ABB BALDOR RELIANCE

Customer information packet

VM3703

3HP, 1750RPM, 3PH, 60HZ, 213C, 3542M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	213C
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	1800 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	9.100 A @ 208.0 V
	8.400 A @ 230.0 V
	4.200 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	L
Type	AC
Mech. spec.	35E1518
Base	
Status	NLA/A
Elec. spec.	35WGP797
Layout	35LYE1518
Eff. date	03-02-2016
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	09-04-2012

Heater Indicator	No Heater
High Voltage Full Load Amps	4.2 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	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	3542M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.68 IN
Power Factor	78
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	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 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.									
SPEC.	35E1518P797H1								
HP	3								
VOLTS	208-230/460								
AMP	9.1-8.4/4.2								
RPM	1750								
FRAME	213C	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	L	**DES**	A	**CLASS**	F		
NEMA-NOM-EFF	87.5	**PF**	78						
RATING	40C AMB-CONT								
CC	010A								
DE	6206	**ODE**	6203						
ENCL	TEFC	**SN**							

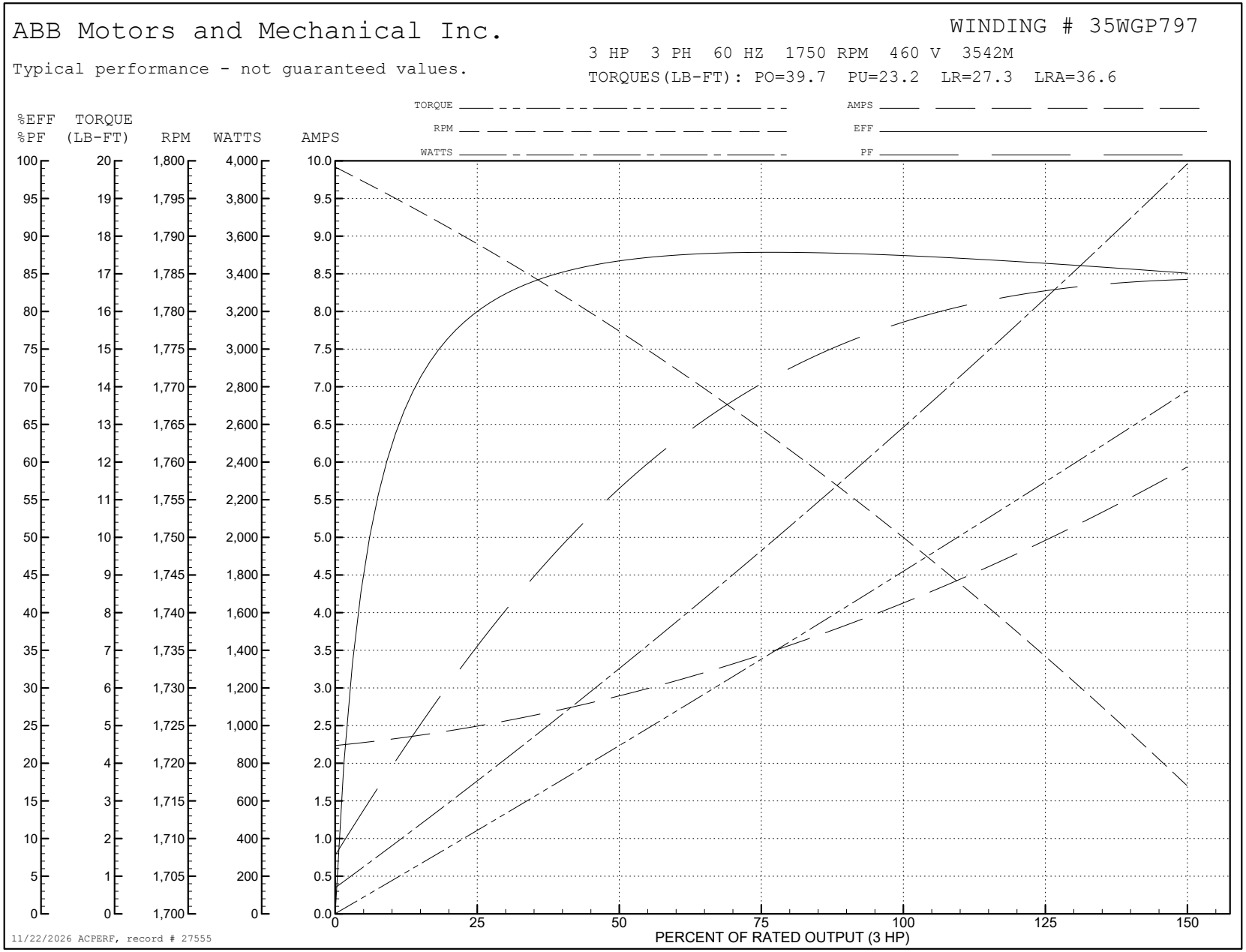
AC Induction Motor Performance Data
Record # 27555
Typical performance - not guaranteed values

Winding: 35WGP797-R001	**Type:** 3542M	**Enclosure:** TEFC

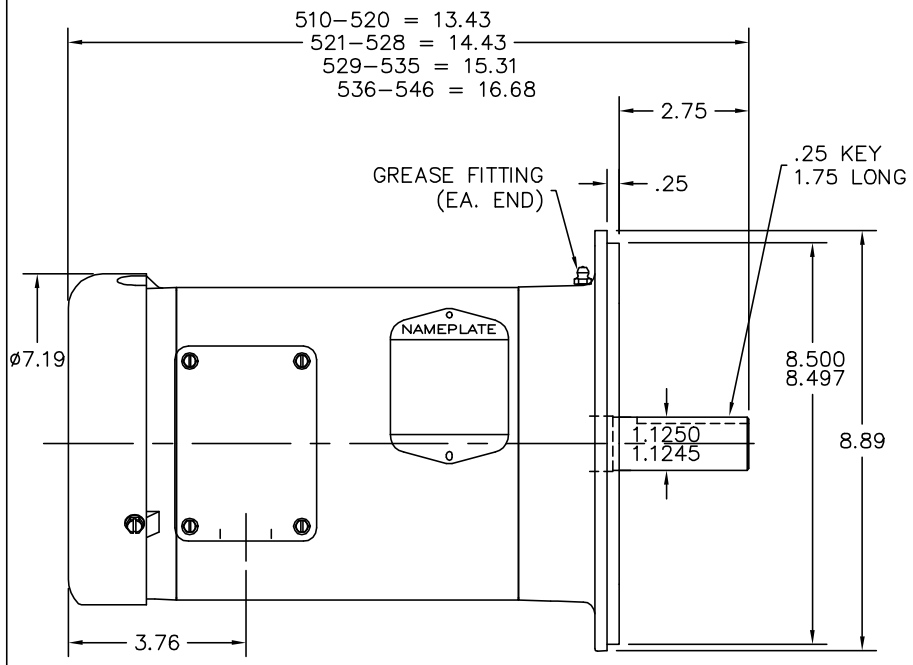
Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	9.08 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			9.1-8.4/4.2	**Breakdown Torque**	39.7 LB-FT
R.P.M.			1750	**Pull-up Torque**	23.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	27.3 LB-FT
NEMA Design Code	A	**KVA Code**	L	**Starting Current**	36.6 A
Service Factor (S.F.)			1.15	**No-load Current**	2.27 A
NEMA Nom. Eff.	87.5	**Power Factor**	78	**Line-line Res. @ 25ºC**	4.59 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	66°C
S.F. Amps				**Temp. Rise @ S.F. Load**	83°C
				Locked-rotor Power Factor	45
				Rotor inertia	0.248 LB-FT2

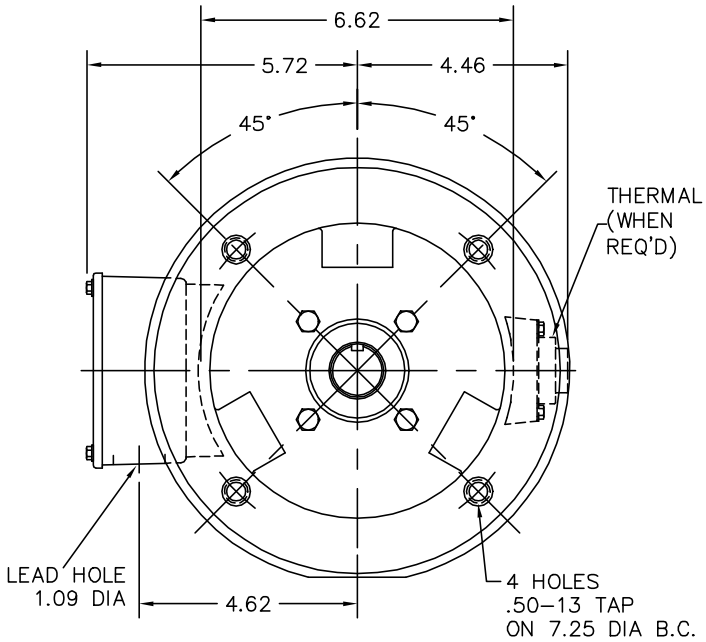
Load Characteristics 460 V, 60 Hz, 3 HP

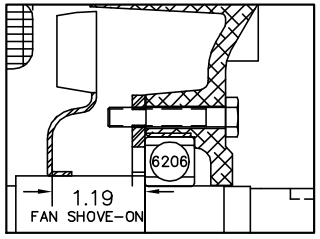
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	37	58	71	78	82	85	80
Efficiency	79.9	86.5	87.8	87.5	86.5	85	86.9
Speed	1789	1777	1764	1750	1734	1717	1740
Line amperes	2.46	2.88	3.46	4.16	4.99	5.91	4.66


ABB Motors and Mechanical Inc.
WINDING # 35WGP797
Typical performance - not guaranteed values.
3 HP 3 PH 60 HZ 1750 RPM 460 V 3542M
TORQUES(LB-FT): PO=39.7 PU=23.2 LR=27.3 LRA=36.6
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/22/2026 ACPERF, record # 27555

35LYE1518







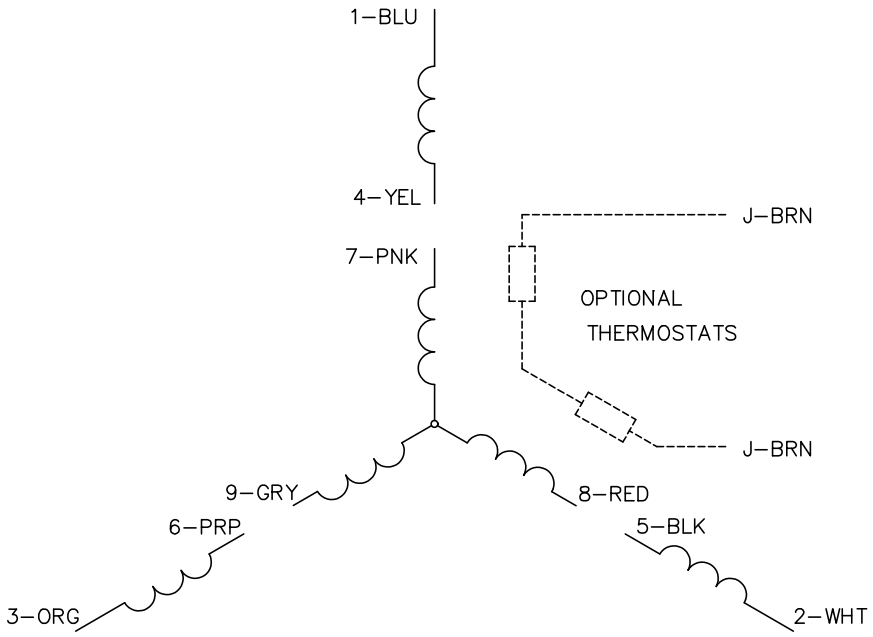
PULLEY END DETAIL

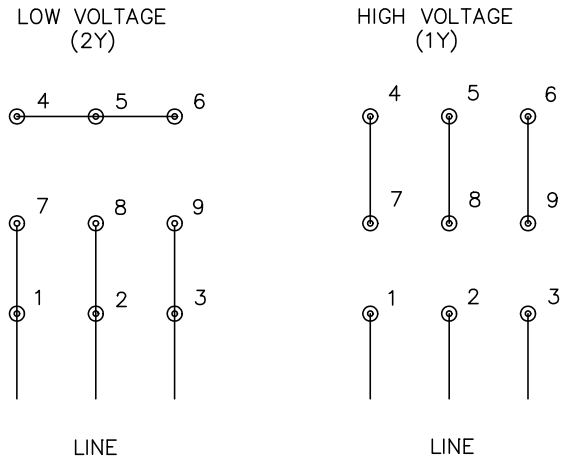
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: CHG DISC. FROM 182–4TCZ TO 213C			BALDOR
REV. LTR: A	VERSION: 01	TDR: 000000773390	
FILE: \AAA\00194\647		REVISED: 12:44:14 11/09/2012	VERT 213C TEFC 35M AH=2.75
MTL: –		BY: ENCARJ0	SH 1 of 1

35LYE1518

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