ABB BALDOR RELIANCE

Customer information packet

NM3538

.5HP, 1725RPM, 3PH, 60HZ, 56, 3420M, TENV, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TENV
Frame	56
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	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	C UR US
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	.900 A @ 460.0 V
	1.800 A @ 230.0 V
	2.100 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.5 %
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	0.9 a

Part Detail

Revision	S
Type	AC
Mech. spec.	34A076
Base	
Status	PRD/A
Elec. spec.	34WG0097
Layout	34LYA076
Eff. date	12-18-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-01-0001

Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
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	3420M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	10.88 IN
Power Factor	69
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
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	1725 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.	NM3538								
SPEC.	34A76-97G1								
HP	.5								
VOLTS	230/460								
AMP	1.8/.9								
RPM	1725								
FRAME	56		**HZ**	60			**PH**	3	
SER.F.	1.25	**CODE**	K	**DES**	B	**CLASS**		F	
NEMA-NOM-EFF	75.5	**PF**	69						
RATING	40C AMB-CONT								
CC									
DE	6203		**ODE**	6203					
ENCL	TENV	**SN**							
	SFA 2/1								

Accessories

Part number	Description	Multiplier
34-171	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 6543
Typical performance - not guaranteed values

Winding: 34WG0097-R003	**Type:** 3420M	**Enclosure:** TENV

Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		.5	**Full Load Torque**	1.5 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		1.8/.9	**Breakdown Torque**	6.8 LB-FT
R.P.M.		1725	**Pull-up Torque**	4.6 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	5.8 LB-FT
NEMA Design Code	B **KVA Code**	K	**Starting Current**	7 A
Service Factor (S.F.)		1.25	**No-load Current**	0.54 A
NEMA Nom. Eff.	75.5 **Power Factor**	69	**Line-line Res. @ 25ºC**	27.56 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	57°C
S.F. Amps		2/1	**Temp. Rise @ S.F. Load**	80°C

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	38	53	65	71	75	81	75
Efficiency	55	69	74	78	75.5	74.4	75.5
Speed	1787	1774	1760	1749	1728	1717	1728
Line amperes	0.6	0.65	0.74	0.84	1	1.1	1

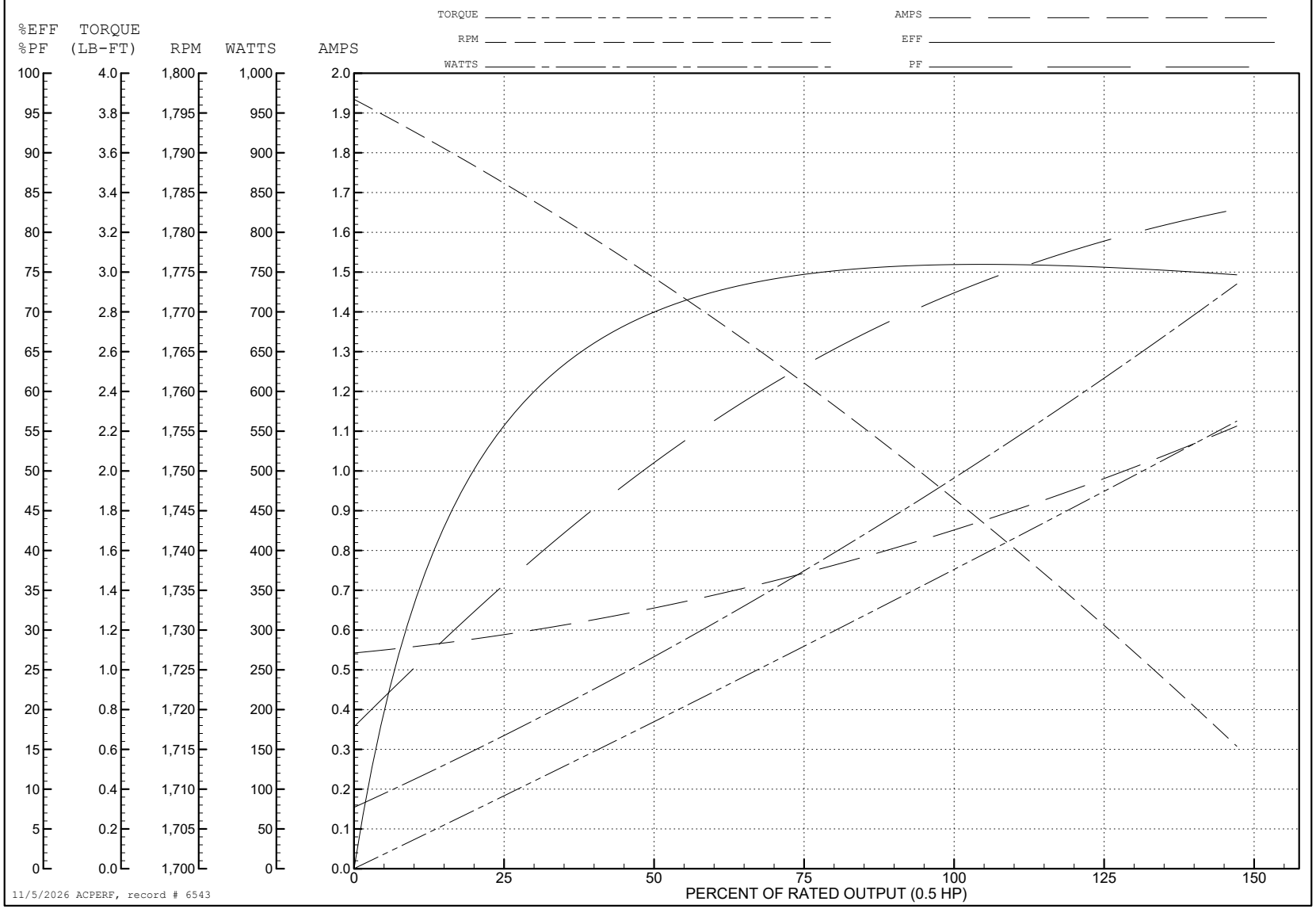
ABB Motors and Mechanical Inc.

WINDING # 34WG0097

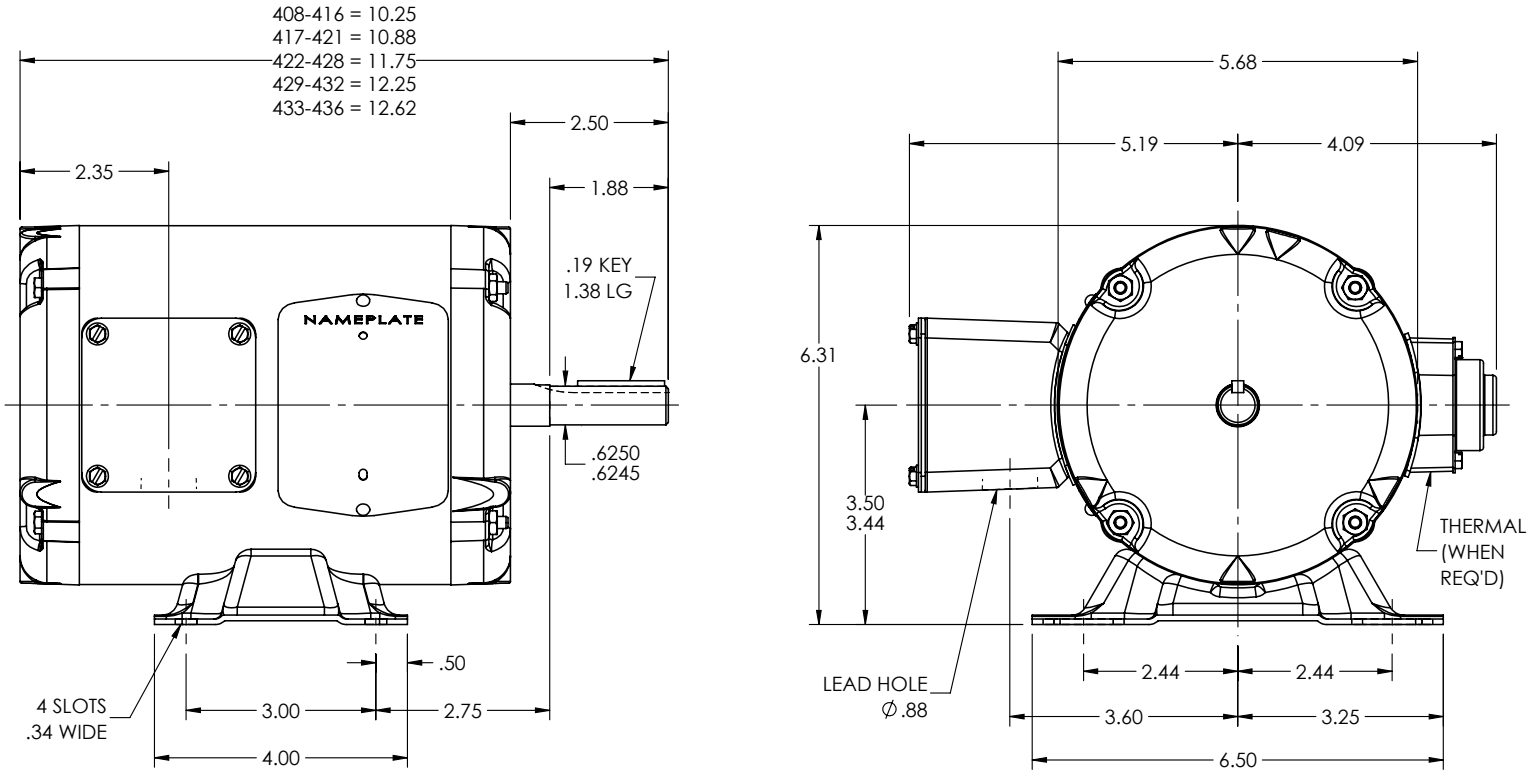
0.5 HP 3 PH 60 HZ 1725 RPM 460 V 3420M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=6.8 PU=4.6 LR=5.8 LRA=7



34LYA076



34LYA076

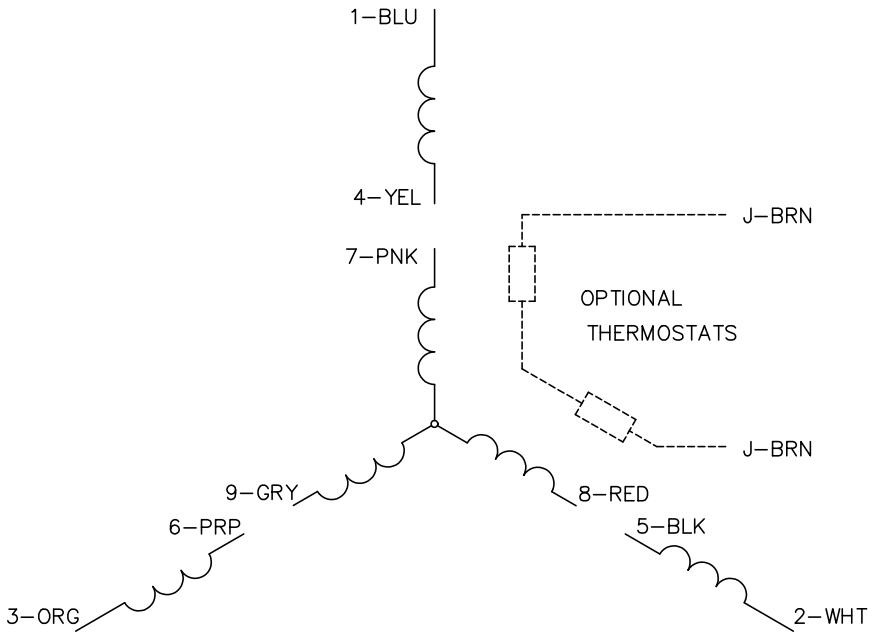
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

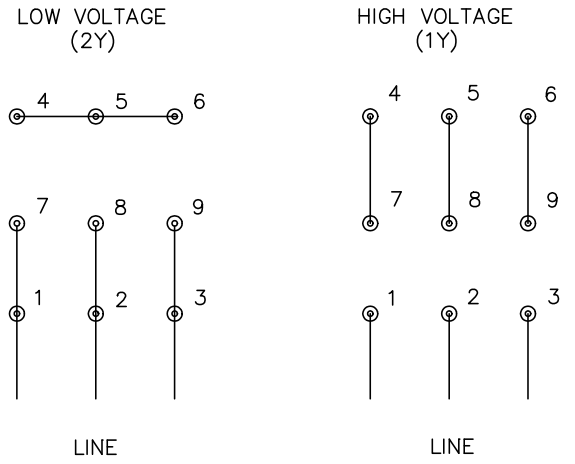
REV. DESC: ADDED 433-436 STACK LENGTHS			
REV: J	VERSION: 07	REVISED: 02:07:05 12/16/2024	TDR: 000001246608
34LYA076	MODEL NO. 34LYA076		REF: -
	BY: ENJEFD0		

BALDOR - RELIANCE®

STD HORZ MODEL 34M NEMA 56 TENV/TEAO

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