Customer information packet

CM3557

1.5HP, 1140RPM, 3PH, 60HZ, 56C, 3529M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	56C
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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	RG
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	5.000 A @ 208.0 V
	4.900 A @ 230.0 V
	2.450 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	K
Type	AC
Mech. spec.	35A012
Base	
Status	NLA/A
Elec. spec.	35WGM899
Layout	35LYA012
Eff. date	05-17-2016
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	01-12-2011

Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
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	3529M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	14.10 IN
Power Factor	72
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	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1140 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.	CM3557							
SPEC.	35A012M899G1							
HP	1.5							
VOLTS	208-230/460							
AMP	5-4.9/2.45							
RPM	1140							
FRAME	56C	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	K	**DES**	B	**CLASS**	F	
NEMA-NOM-EFF	80	**PF**	72					
RATING	40C AMB-CONT							
CC								
DE	6205	**ODE**	6203					
ENCL	TEFC	**SN**						

AC Induction Motor Performance Data
Record # 33199
Typical performance - not guaranteed values

Winding: 35WGM899-R001	**Type:** 3529M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1.5	**Full Load Torque**	6.97 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			5.1-5/2.5	**Breakdown Torque**	23.6 LB-FT
R.P.M.			1140	**Pull-up Torque**	18 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	19.1 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	15.4 A
Service Factor (S.F.)			1.15	**No-load Current**	1.56 A
NEMA Nom. Eff.	80	**Power Factor**	72	**Line-line Res. @ 25ºC**	11.121 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	84°C
S.F. Amps				**Temp. Rise @ S.F. Load**	104°C
				Locked-rotor Power Factor	50
				Rotor inertia	0.172 LB-FT2

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	31	49	63	72	77	80	75
Efficiency	70.6	79.3	81.3	80.6	78.6	75.7	79.4
Speed	1186.7	1173	1158.4	1140.3	1121.1	1097.7	1129
Line amperes	1.63	1.81	2.09	2.45	2.92	3.48	2.73

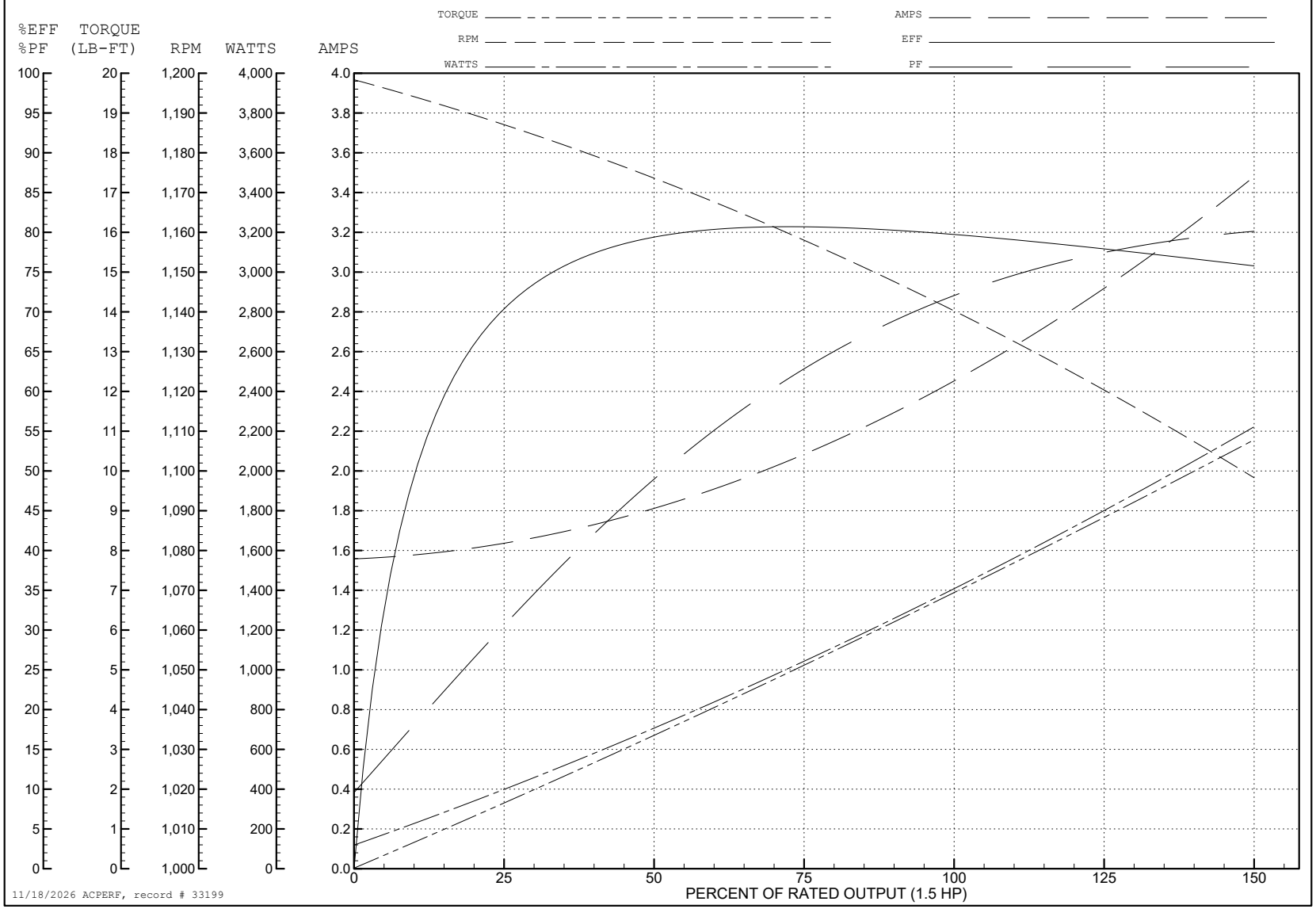
ABB Motors and Mechanical Inc.

WINDING # 35WGM899

1.5 HP 3 PH 60 HZ 1140 RPM 460 V 3529M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=23.6 PU=18 LR=19.1 LRA=15.4



AC Induction Motor Performance Data
Record # 53824
Typical performance - not guaranteed values

Winding: 35WGM899-R001	**Type:** 3529M	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			1.5	**Full Load Torque**	6.97 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			5-4.9/2.45	**Breakdown Torque**	23.6 LB-FT
R.P.M.			1140	**Pull-up Torque**	18 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	19.1 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	30.8 A
Service Factor (S.F.)			1.15	**No-load Current**	3.12 A
NEMA Nom. Eff.	80	**Power Factor**	72	**Line-line Res. @ 25ºC**	2.75 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	84°C
S.F. Amps				**Temp. Rise @ S.F. Load**	100°C
				Locked-rotor Power Factor	50.2
				Rotor inertia	0.172 LB-FT2

Load Characteristics 230 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	31	49	63	72	77	80	75
Efficiency	69	78.4	80.3	80.6	78.2	75.5	79.2
Speed	1187	1173	1158	1140	1121	1098	1129
Line amperes	3.26	3.62	4.18	4.9	5.84	6.96	5.46

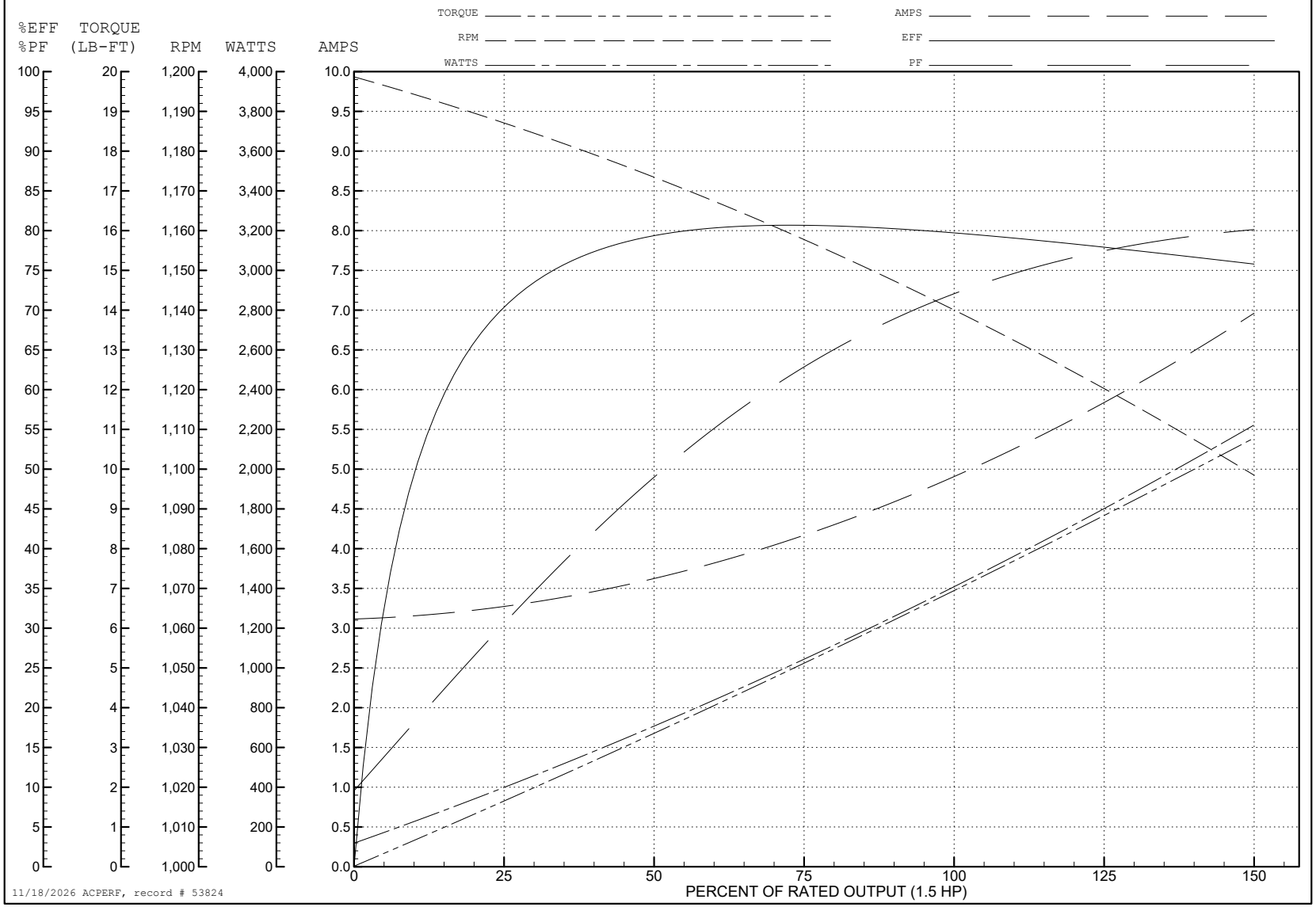
ABB Motors and Mechanical Inc.

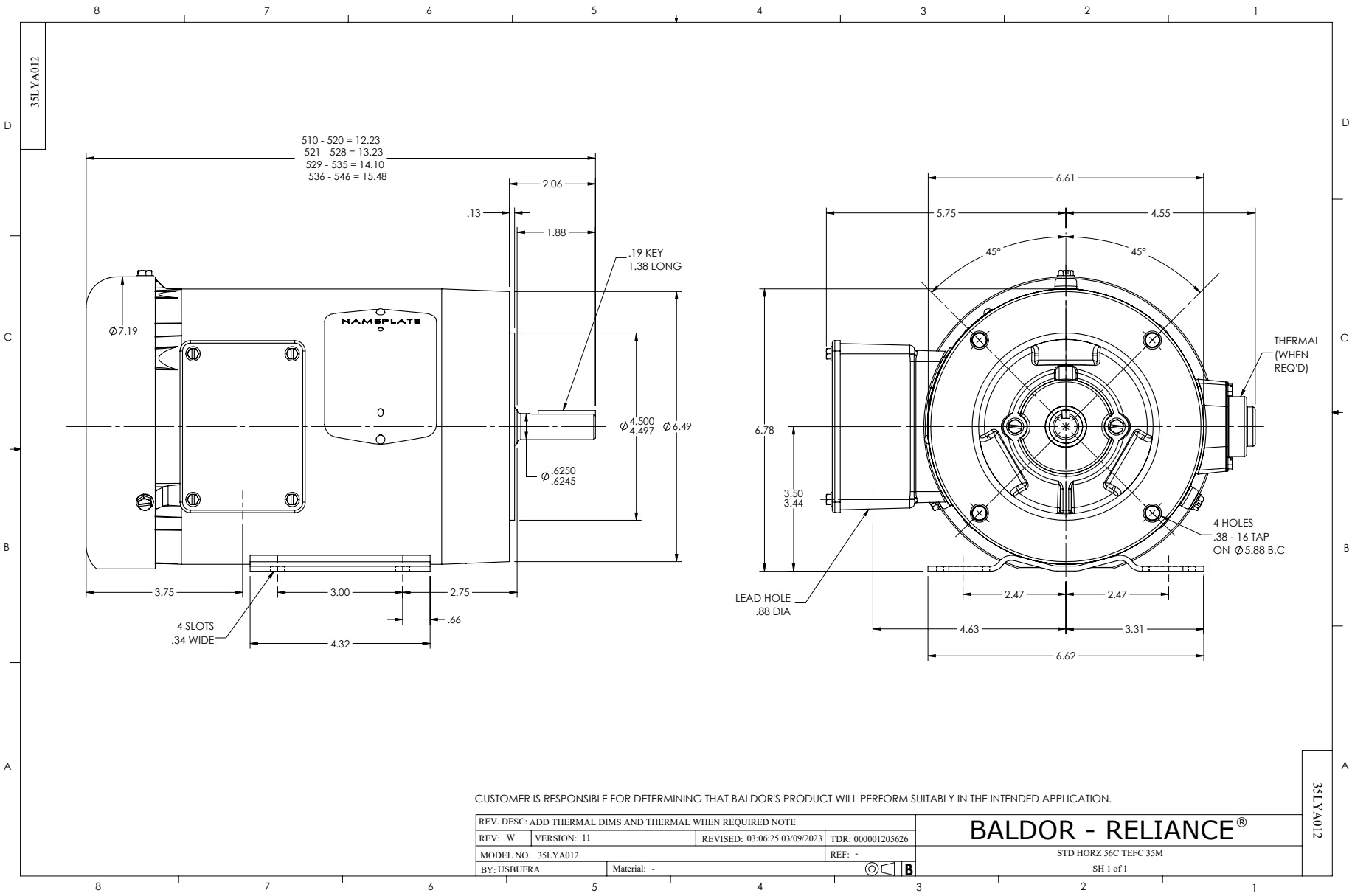
WINDING # 35WGM899

1.5 HP 3 PH 60 HZ 1140 RPM 230 V 3529M

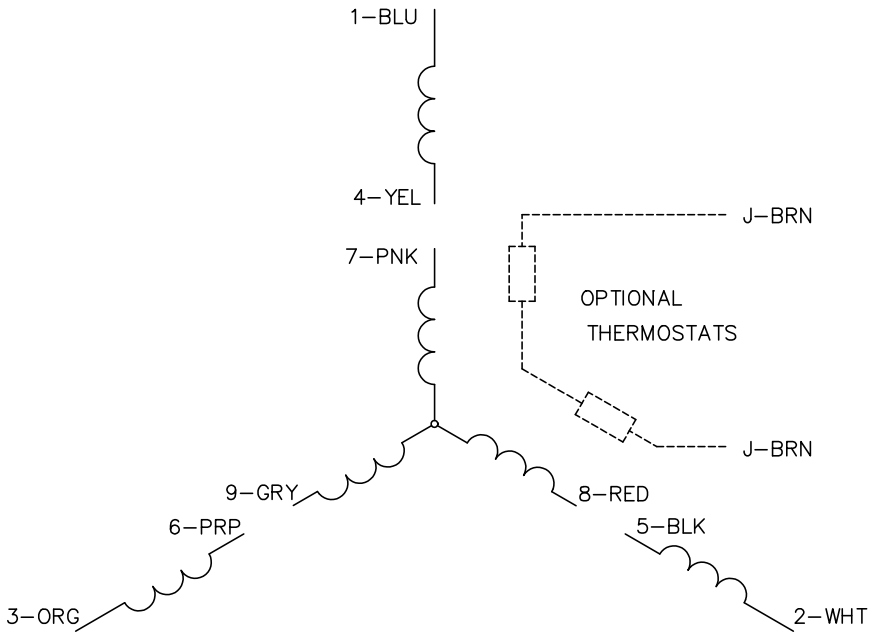
Typical performance - not guaranteed values.

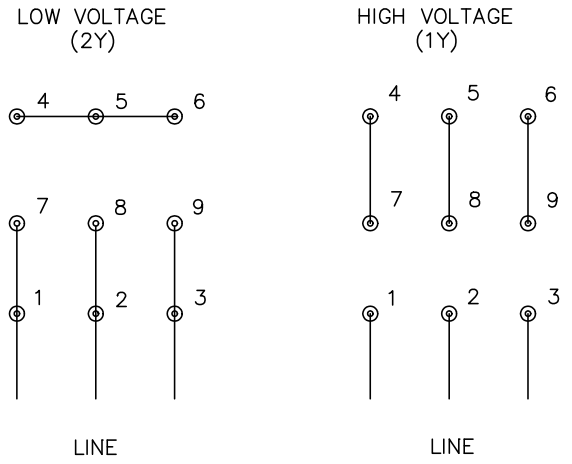
TORQUES(LB-FT): PO=23.6 PU=18 LR=19.1 LRA=30.8




35LYA012
510 - 520 = 12.23
521 - 528 = 13.23
529 - 535 = 14.10
536 - 546 = 15.48
2.06
.13
1.88
.19 KEY
1.38 LONG
NAMEPLATE
Ø7.19
Ø 4.500
4.497
Ø6.49
Ø .6250
.6245
3.75
3.00
2.75
.66
4.32
4 SLOTS
.34 WIDE
6.61
5.75
4.55
45°
45°
THERMAL
(WHEN
REQ'D)
6.78
3.50
3.44
4 HOLES
.38 - 16 TAP
ON Ø5.88 B.C
LEAD HOLE
.88 DIA
2.47
2.47
4.63
3.31
6.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: ADD THERMAL DIMS AND THERMAL WHEN REQUIRED NOTE
REV: W
VERSION: 11
REVISED: 03:06:25 03/09/2023
TDR: 000001205626
MODEL NO. 35LYA012
REF: -
BY: USBUFRA
Material: -
B
BALDOR - RELIANCE®
STD HORZ 56C TEFC 35M
SH 1 of 1
35LYA012

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