ABB BALDOR RELIANCE

Customer information packet

CSWDM3539

.5HP, 1175RPM, 3PH, 60HZ, 56C, 3522M, TENV, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TENV
Frame	56C
Frame Material	Stainless 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	1200 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ
	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	1.000 A @ 230.0 V
	2.000 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.0 a
Insulation Class	F

Part Detail

Revision	-
Type	AC
Mech. spec.	35S630
Base	
Status	PRD/A
Elec. spec.	35WGK346
Layout	35LYS630
Eff. date	10-31-2024
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	10-25-2024

Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3522M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	12.06 IN
Power Factor	57
Product Family	Wash Down Paint Free
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1175 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

NP1496L											
CAT.NO.	CSWDM3539										
SPEC.	35S630K346G1										
HP	.5										
VOLTS	208-230/460										
AMP	2/1										
RPM	1175										
FRAME	56C		**HZ**	60			**PH**	3			
SER.F.	1.25	**CODE**	M	**DES**	B	**CLASS**	F				
NEMA-NOM-EFF	78.5	**PF**	57								
RATING	40C AMB-CONT										
CC											
DE	6205		**ODE**	6203							
ENCL	TENV	**SN**									
	SFA 2.3/1.15										

AC Induction Motor Performance Data
Record # 105557
Preliminary Data Sheet

Winding: 35WGK346-R001	**Type:** 3522M	**Enclosure:** TENV

Nameplate Data			
Rated Output (HP)			.5
Volts			208-230/460
Full Load Amps			2/1
R.P.M.			1175
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	M
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	78.5	**Power Factor**	57
Rating - Duty			40C AMB-CONT
S.F. Amps			2.2/1.1

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	2.24 LB-FT
Start Configuration	direct on line
Breakdown Torque	8.8 LB-FT
Pull-up Torque	5.6 LB-FT
Locked-rotor Torque	6.1 LB-FT
Starting Current	6.4 A
No-load Current	0.79 A
Line-line Res. @ 25ºC	30 Ω
Temp. Rise @ Rated Load	73°C
Temp. Rise @ S.F. Load	82°C
Locked-rotor Power Factor	53.8
Rotor inertia	0.16 lb-ft²

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	24	37	48	57	63	68	61
Efficiency	63.4	75.5	79	81	80.9	79.8	80.9
Speed	1192	1186	1179	1172	1164	1155	1167
Line amperes	0.8	0.86	0.93	1.02	1.14	1.3	1.09

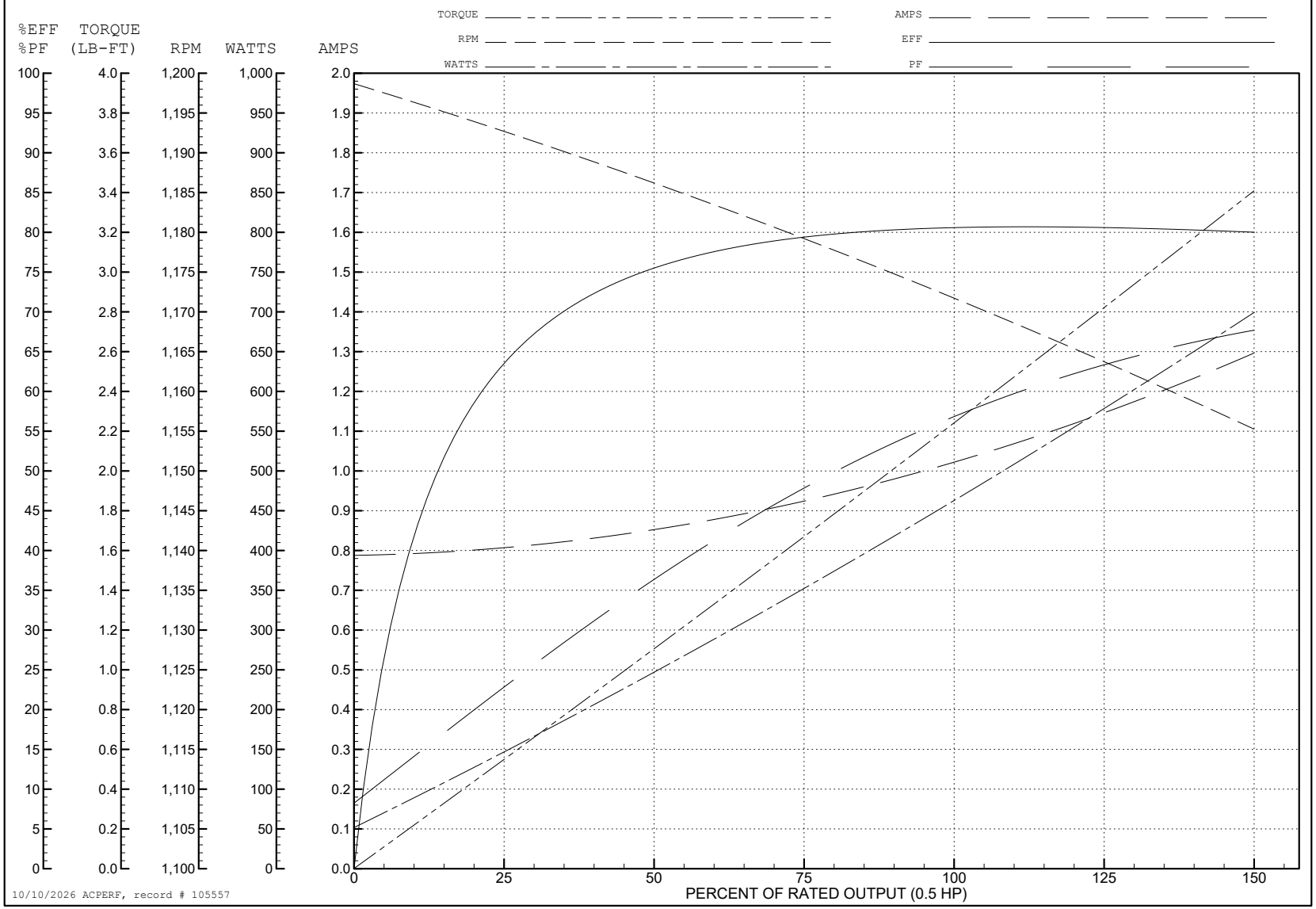
ABB Motors and Mechanical Inc.

WINDING # 35WGK346

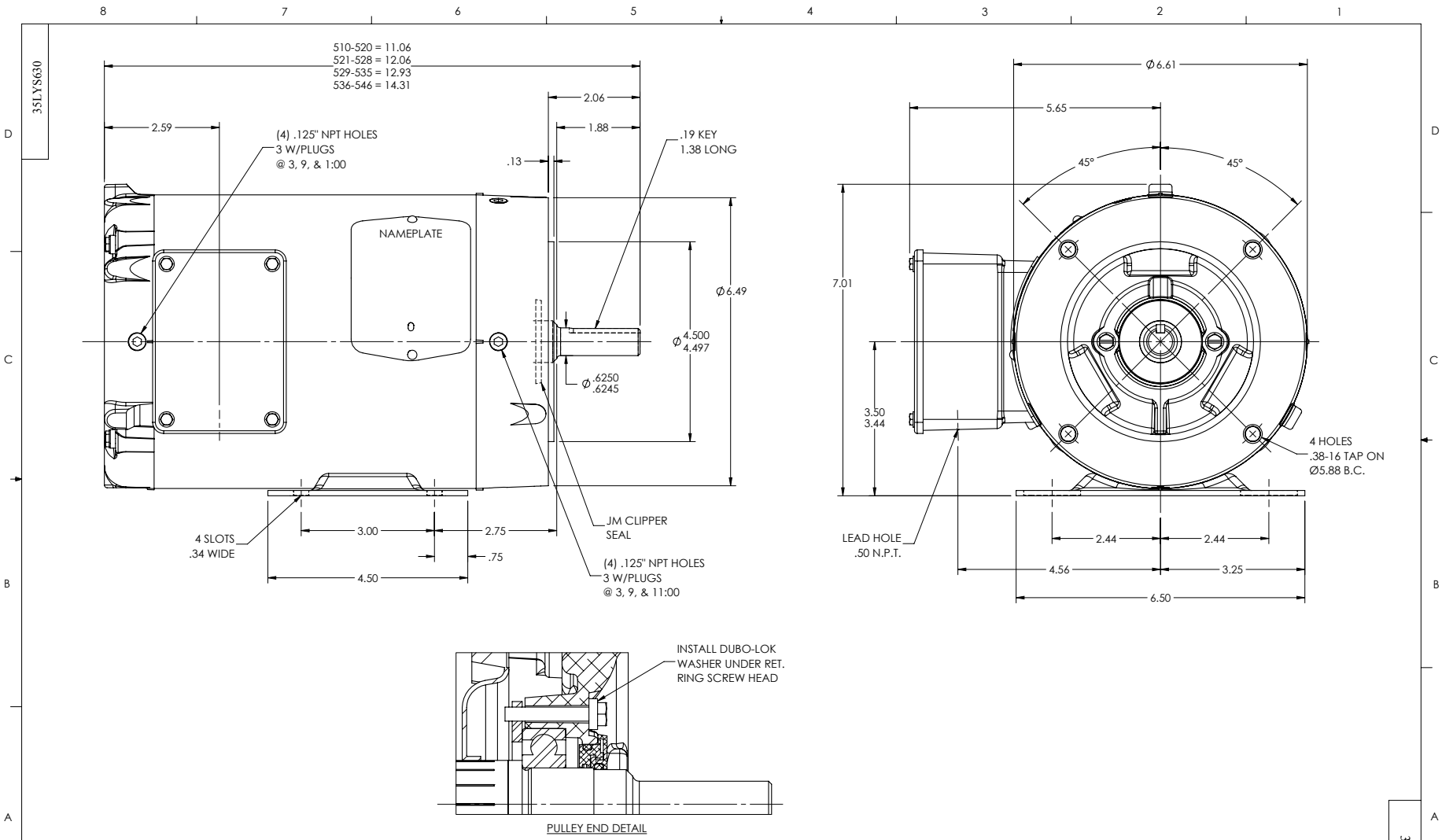
0.5 HP 3 PH 60 HZ 1175 RPM 460 V 3522M

Typical performance - not guaranteed values.

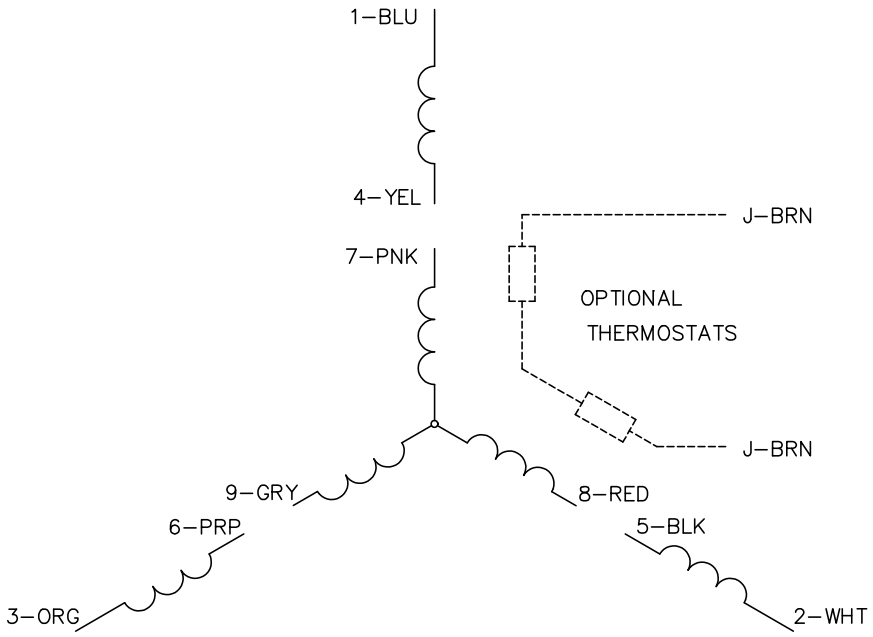
TORQUES(LB-FT): PO=8.8 PU=5.6 LR=6.1 LRA=6.4

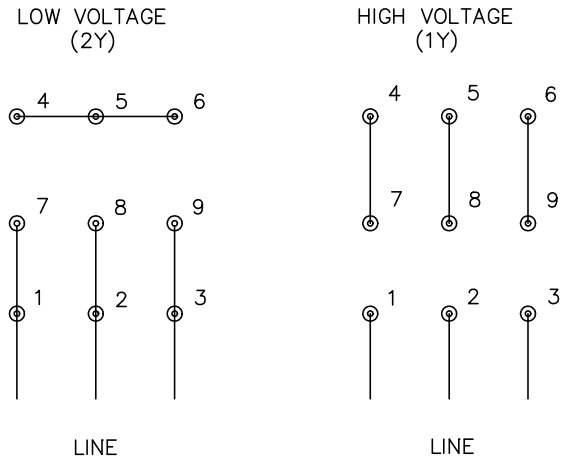


10/10/2026 ACPERF, record # 105557


35LYS630
510-520 = 11.06
521-528 = 12.06
529-535 = 12.93
536-546 = 14.31
2.59
2.06
1.88
.13
(4) .125" NPT HOLES
3 W/PLUGS
@ 3, 9, & 1:00
.19 KEY
1.38 LONG
NAMEPLATE
Ø6.49
Ø4.500
4.497
Ø.6250
.6245
4 SLOTS
.34 WIDE
3.00
2.75
.75
4.50
JM CLIPPER
SEAL
(4) .125" NPT HOLES
3 W/PLUGS
@ 3, 9, & 11:00
Ø6.61
5.65
45°
45°
7.01
3.50
3.44
4 HOLES
.38-16 TAP ON
Ø5.88 B.C.
LEAD HOLE
.50 N.P.T.
2.44
2.44
4.56
3.25
6.50
INSTALL DUBO-LOK
WASHER UNDER RET.
RING SCREW HEAD
PULLEY END DETAIL
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 - PKG12
REV: G
VERSION: 07
REVISED: 04:59:32 12/11/2018
TDR: 000001093440
MODEL NO. 35LYS630
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 56C TENV 35M WD2 (PAINT FREE)
SH 1 of 1
35LYS630

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