ABB BALDOR RELIANCE

Customer information packet

CEDM3550

1.5HP, 3500RPM, 3PH, 60HZ, 56C, 3520M, 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	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CCSA US
	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
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
Constant Torque Speed Range	6
Current @ Voltage	4.000 A @ 208.0 V
	3.800 A @ 230.0 V
	1.900 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	M
Type	AC
Mech. spec.	35E4315
Base	
Status	PRD/A
Elec. spec.	35WGM760
Layout	35LYE4315
Eff. date	01-06-2022
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	05-10-2016

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.9 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.23 IN
Power Factor	85
Product Family	Dirty Duty Plus
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
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	3500 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

NP3504								
CAT NO	CEDM3550							
SPEC.	35E4315M760G1			**ENCL**	TEFC			
FRAME	56C	**HP**	1.5					
VOLTS	230/460							
FLA	3.8/1.9			**I.P.**	56			
RPM	3500	**RPM MAX**	5400					
HZ	60	**PH**	3	**CLASS**	F			
SER.F.	1.15	**DES**	B	**CC**	010A			
NEMA-NOM-EFF	84							
RATING	40C AMB-CONT							
DE BRG	6205	**ODE BRG**	6203					
GREASE	POLYREX EM							
C HP FR	60	**C HP TO**	90					
CT HZ FROM	6	**CT HZ TO**	60	**VT HZ FROM**	6	**VT HZ TO**	60	
SER.NO								
	50C AT 1.0 SF							

AC Induction Motor Performance Data
Record # 55729
Typical performance - not guaranteed values

Winding: 35WGM760-R060	**Type:** 3520M	**Enclosure:** TEFC

Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		1.5	**Full Load Torque**	2.22 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		3.8/1.9	**Breakdown Torque**	9.49 LB-FT
R.P.M.		3500	**Pull-up Torque**	3.61 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	7.35 LB-FT
NEMA Design Code	B **KVA Code**	L	**Starting Current**	17.9 A
Service Factor (S.F.)		1.15	**No-load Current**	0.932 A
NEMA Nom. Eff.	84 **Power Factor**	85	**Line-line Res. @ 25ºC**	12.315 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	43°C
S.F. Amps			**Temp. Rise @ S.F. Load**	51°C
			Locked-rotor Power Factor	60
			Rotor inertia	0.0553 LB-FT2

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	67	79	85	90	91	88
Efficiency	72.4	82	84.6	85	84.4	82.9	84.6
Speed	3574.8	3551.3	3525.8	3497.6	3466.3	3432.6	3479
Line amperes	1.03	1.25	1.55	1.91	2.31	2.79	2.15

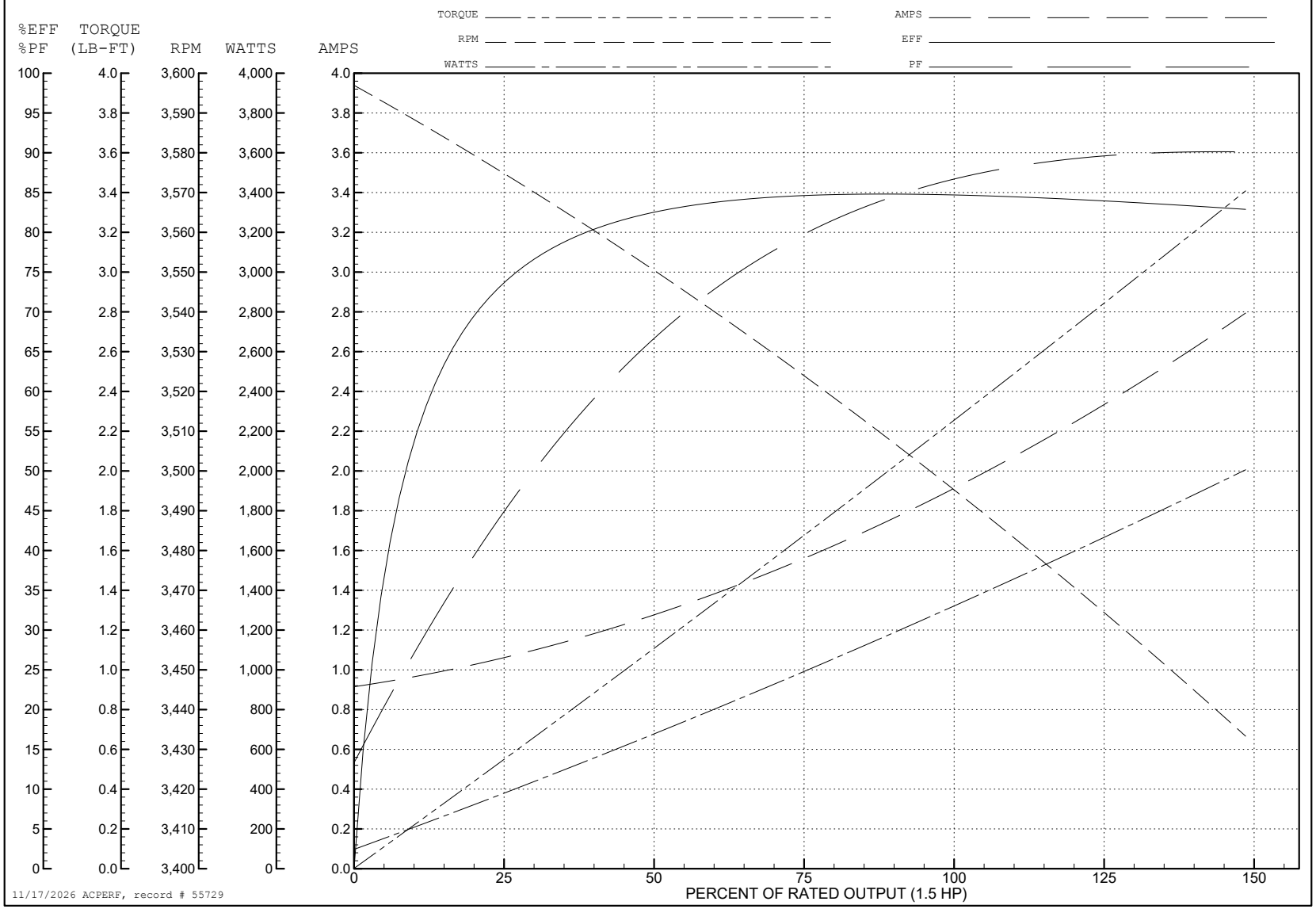
ABB Motors and Mechanical Inc.

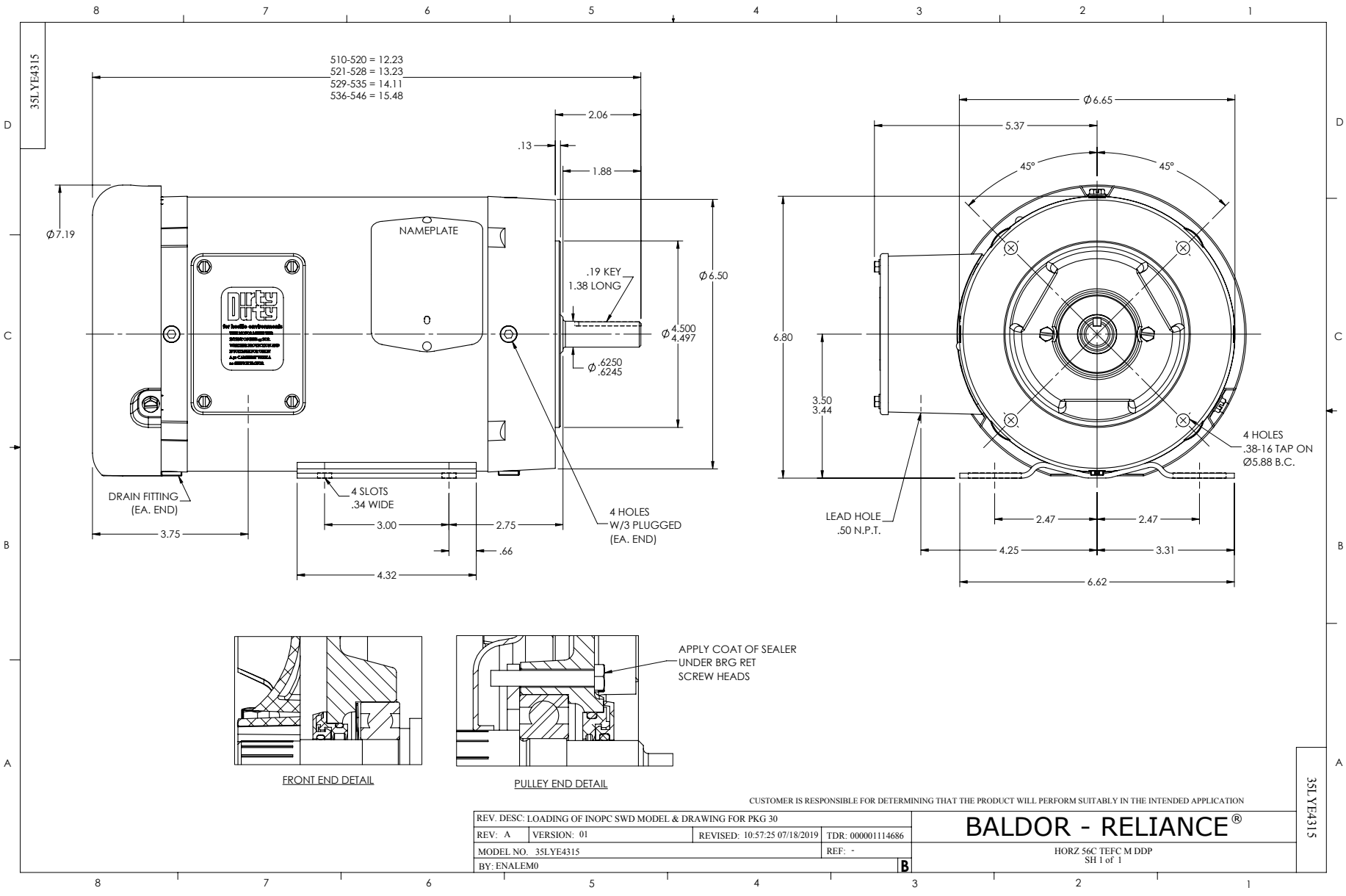
WINDING # 35WGM760

1.5 HP 3 PH 60 HZ 3500 RPM 460 V 3520M

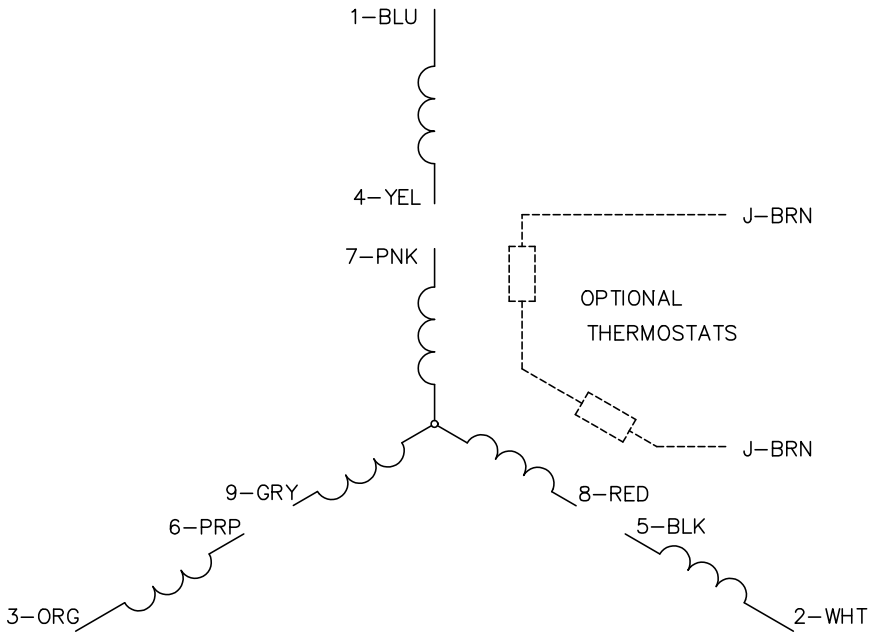
Typical performance - not guaranteed values.

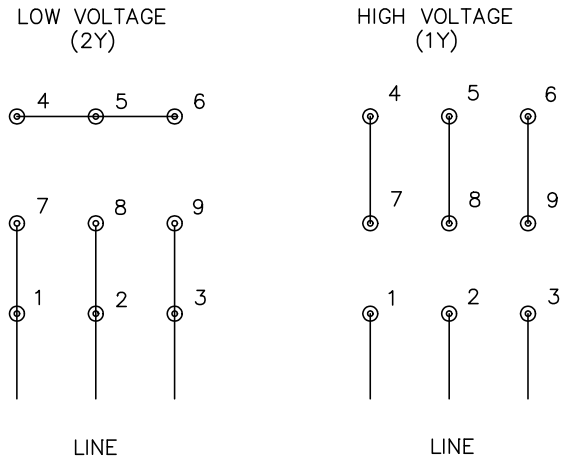
TORQUES(LB-FT): PO=9.49 PU=3.61 LR=7.35 LRA=17.9




35LYE4315
510-520 = 12.23
521-528 = 13.23
529-535 = 14.11
536-546 = 15.48
2.06
.13
1.88
Ø7.19
NAMEPLATE
.19 KEY
1.38 LONG
Ø6.50
Ø 4.500
4.497
Ø .6250
.6245
DRAIN FITTING
(EA. END)
4 SLOTS
.34 WIDE
3.00
2.75
.66
4.32
3.75
4 HOLES
W/3 PLUGGED
(EA. END)
Ø6.65
5.37
45°
45°
6.80
3.50
3.44
4 HOLES
.38-16 TAP ON
Ø5.88 B.C.
LEAD HOLE
.50 N.P.T.
2.47
2.47
4.25
3.31
6.62
APPLY COAT OF SEALER
UNDER BRG RET
SCREW HEADS
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF INOPC SWD MODEL & DRAWING FOR PKG 30
REV: A
VERSION: 01
REVISED: 10:57:25 07/18/2019
TDR: 000001114686
MODEL NO. 35LYE4315
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 56C TEFC M DDP
SH 1 of 1
35LYE4315

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