Customer information packet

CESSWDM3550-5

1.5HP, 3450RPM, 3PH, 60HZ, 56C, 3532M, TENV, F1
Class -
Division - Not Applicable

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Specifications

Enclosure	TENV
Frame	56C
Frame Material	Stainless Steel
Frequency	60.00 Hz
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	575.0 V @ 60 HZ
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	1.500 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
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	1.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing

Part Detail

Revision	F
Type	AC
Mech. spec.	35V814
Base	
Status	PRD/A
Elec. spec.	35WGL024
Layout	35LYV814
Eff. date	09-22-2023
CD Diagram	CD0006
Poles	02
Leads	3#18
Proprietary	False
Created date	11-22-2017

Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3532M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.97 IN
Power Factor	92
Product Family	Wash Down All Stainless Steel
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	3450 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

NP1953A05								
CAT.NO.	CESSWDM3550-5							
SPEC.	35V814L024G1							
HP	1.5							
VOLTS	575							
AMP	1.5							
RPM	3450							
FRAME	56C	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	M	**DES**	B	**CLASS**	F	
NEMA-NOM-EFF	85.5	**PF**	92					
RATING	40C AMB-CONT							
CC		**USABLE AT 208V**				N/A		
DE	6205	**ODE**	6203					
ENCL	TENV	**SN**						
	4:1CT 20:1VT							

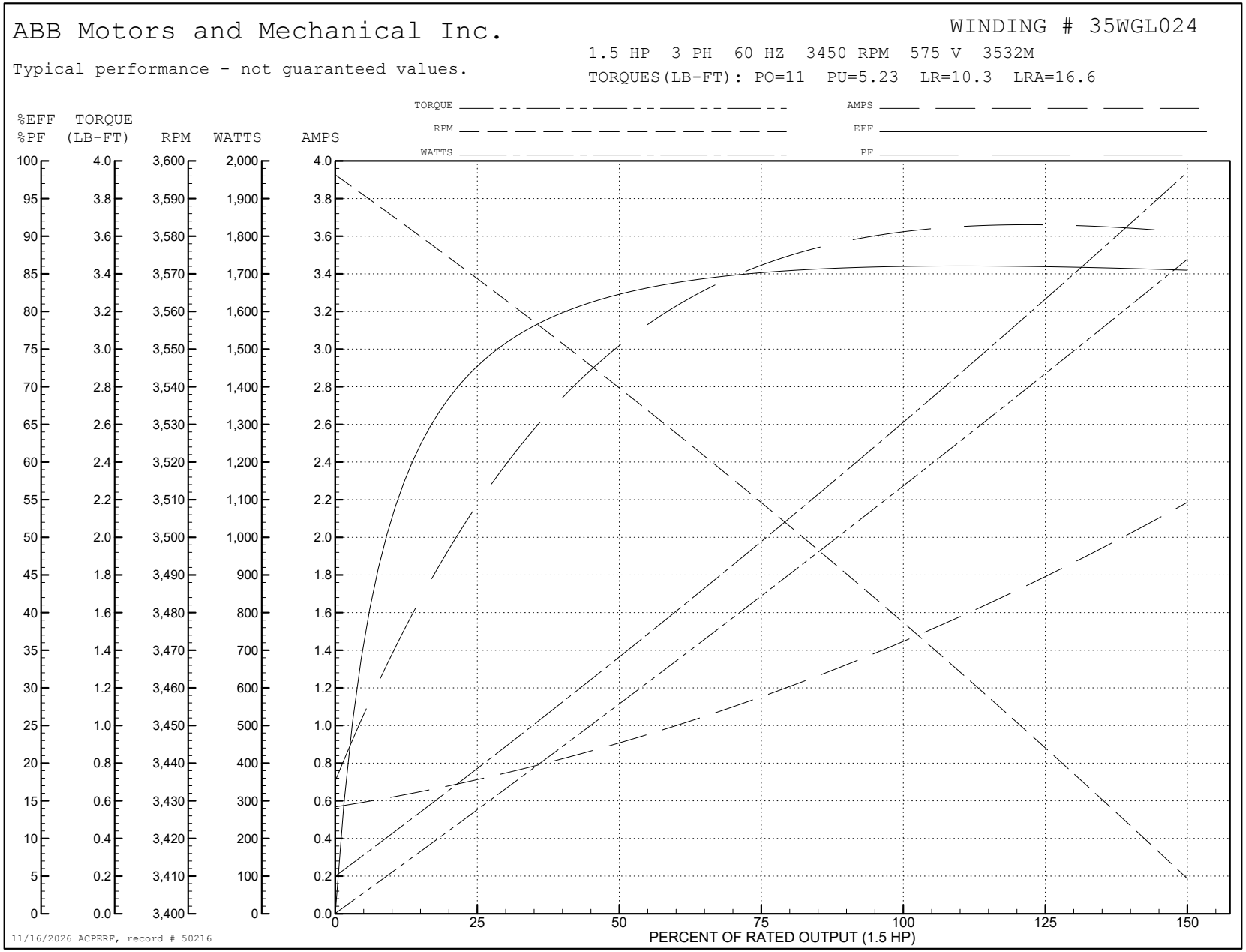
AC Induction Motor Performance Data
Record # 50216
Typical performance - not guaranteed values

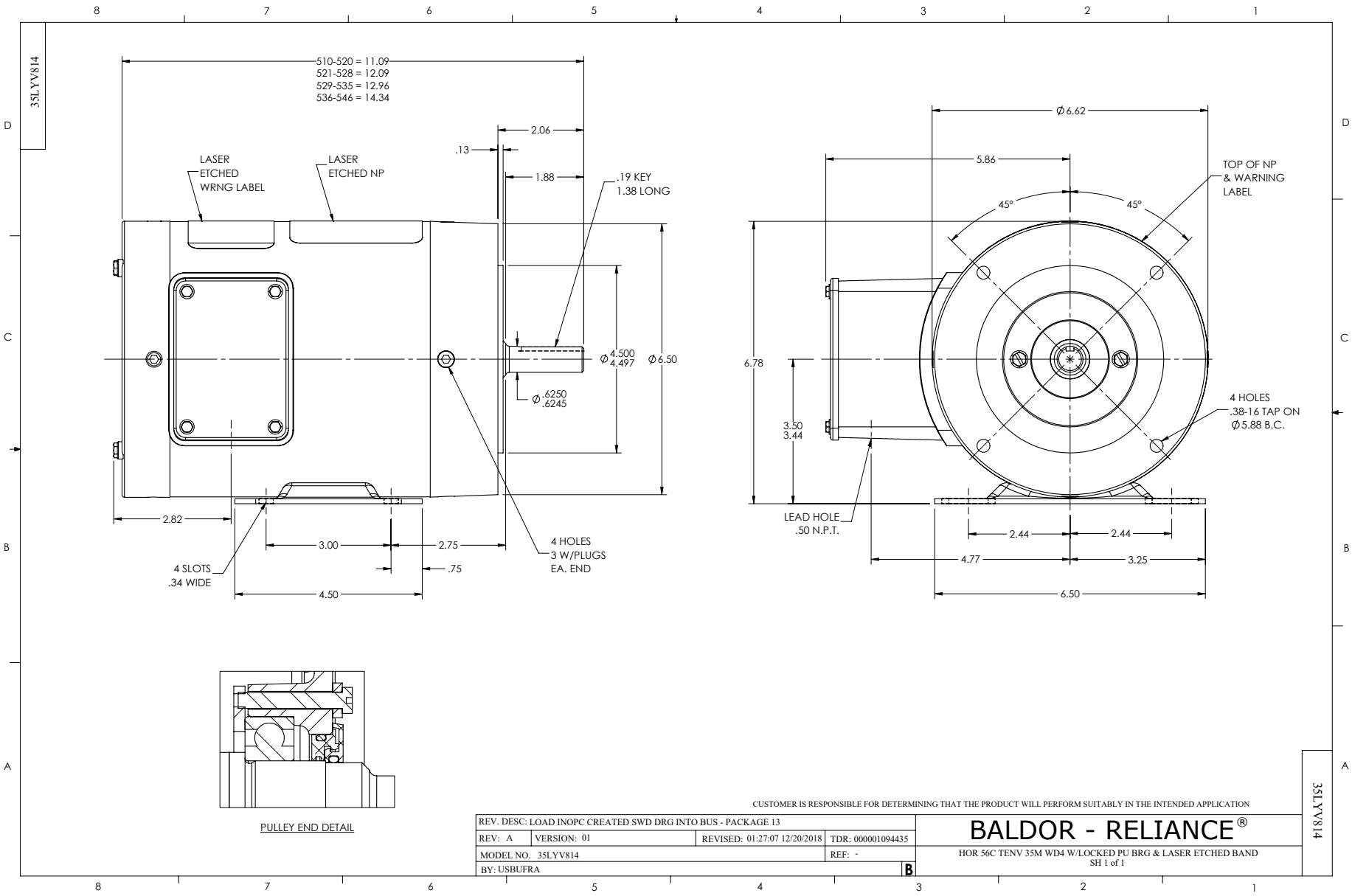
Winding: 35WGL024-R003	**Type:** 3532M	**Enclosure:** TENV

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			1.5	**Full Load Torque**	2.31 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			1.5	**Breakdown Torque**	11 LB-FT
R.P.M.			3450	**Pull-up Torque**	5.23 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	10.3 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	16.6 A
Service Factor (S.F.)			1.15	**No-load Current**	0.559 A
NEMA Nom. Eff.	85.5	**Power Factor**	92	**Line-line Res. @ 25ºC**	12.1 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	
				Locked-rotor Power Factor	45.8
				Rotor inertia	0.0885 LB-FT2

Load Characteristics 575 V, 60 Hz, 1.5 HP

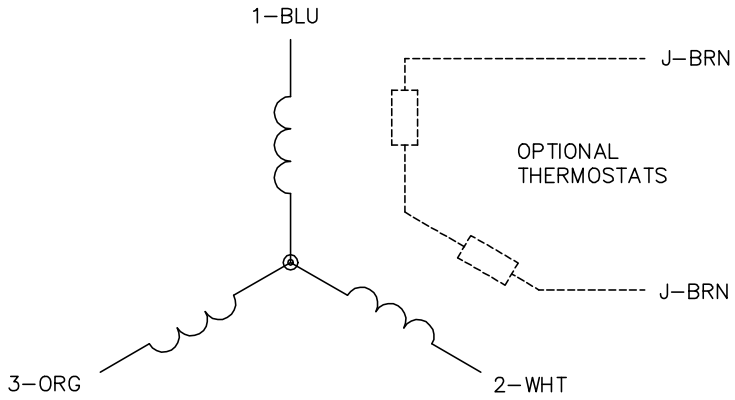
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	55	77	85	92	92	90	92
Efficiency	73.8	82.3	85.3	86.2	85.9	85.5	86
Speed	3564	3536	3508	3477	3445	3407	3458
Line amperes	0.73	0.921	1.19	1.45	1.79	2.2	1.65

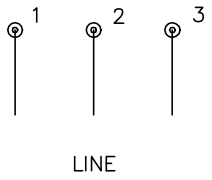

ABB Motors and Mechanical Inc.
WINDING # 35WGL024
Typical performance - not guaranteed values.
1.5 HP 3 PH 60 HZ 3450 RPM 575 V 3532M
TORQUES(LB-FT): PO=11 PU=5.23 LR=10.3 LRA=16.6
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 HP)
11/16/2026 ACPERF, record # 50216


35LYV814
510-520 = 11.09
521-528 = 12.09
529-535 = 12.96
536-546 = 14.34
2.06
.13
1.88
.19 KEY
1.38 LONG
LASER
ETCHED
WRNG LABEL
LASER
ETCHED NP
Ø 4.500
4.497
Ø 6.50
Ø .6250
.6245
2.82
3.00
2.75
.75
4.50
4 SLOTS
.34 WIDE
4 HOLES
3 W/PLUGS
EA. END
Ø 6.62
5.86
45°
45°
TOP OF NP
& WARNING
LABEL
6.78
3.50
3.44
4 HOLES
.38-16 TAP ON
Ø 5.88 B.C.
LEAD HOLE
.50 N.P.T.
2.44
2.44
4.77
3.25
6.50
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD INOPC CREATED SWD DRG INTO BUS - PACKAGE 13
REV: A
VERSION: 01
REVISED: 01:27:07 12/20/2018
TDR: 000001094435
MODEL NO. 35LYV814
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HOR 56C TENV 35M WD4 W/LOCKED PU BRG & LASER ETCHED BAND
SH 1 of 1
35LYV814

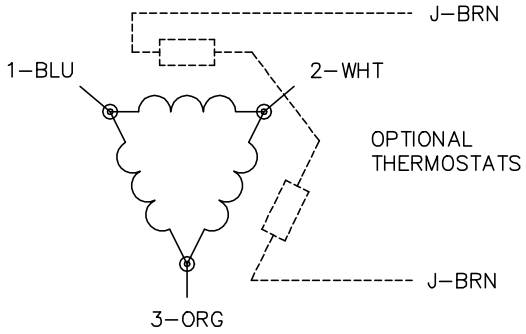
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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