ABB BALDOR RELIANCE

Customer information packet

UCME153

1.5-3HP, 3450RPM, 3PH, 60HZ, 143TYZ, 3524M, TE
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	145TYZ
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
	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	208.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	UR
	CSA
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	8.500 A @ 208.0 V
	8.200 A @ 230.0 V
	4.100 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

Part Detail

Revision	Q
Type	AC
Mech. spec.	35E2501
Base	
Status	PRD/A
Elec. spec.	35WGS057
Layout	35LYE2501
Eff. date	01-02-2025
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	03-05-2014

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.1 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Pipe Or Pipe Adaptor
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.37 IN
Power Factor	83
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 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	Normally Closed Thermostat

Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1279L										
CAT.NO.	UCME153									
SPEC.	35E2501S057G1									
HP	1.5-3									
VOLTS	208-230/460									
AMP	8.5-8.2/4.1									
RPM	3450									
FRAME	145TYZ	**HZ**	60		**PH**	3				
SER.F.	1.00	**CODE**	L	**DES**	B		**CL**	F		
NEMA-NOM-EFF	80	**PF**	83							
RATING	40C AMB-CONT									
CC										
DE	6206	**ODE**	6203							
ENCL	TEAO	**SN**								

NP1263L									
CAT.NO.	UCME153								
SPEC.	35E2501S057G1								
HP	1.5-3								
VOLTS	208-230/460								
AMP	8.5-8.2/4.1								
RPM	3450								
FRAME	145TYZ	**HZ**	60	**PH**	3				
SER.F.	1.00	**CODE**	L	**DES**	B	**CL**	F		
NEMA-NOM-EFF	80	**PF**	83						
RATING	40C AMB-CONT								
CC									
DE	6206	**ODE**	6203						
ENCL	TEAO	**SN**							

Parts List

Part number	Description	Quantity
SA277856	SA 35E2501S057G1	1.000 ea
RA264404	RA 35E2501S057G1	1.000 ea
HA6021A01SP	ADAPTOR, MACH	1.000 ea
36GS5000	GASKET CONDUIT ADAPTOR	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
35EP3122F00	MASTER ODE,203 BRG,#26 DRN	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
10XN2520A24	1/4-20X 1 1/2 HEX HD X	2.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 ea
35EP3113B06	PU EP ENCL,06 BRG, SEAL, W/O GREASER	1.000 ea
HW4600H12	SEAL 1.156 X 1.874 X 0.250 SINGLE LIP DB	1.000 ea
HA1005A22	SLINGER, OD 2.00, ID 1.14, 206 BRG, GM	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
LD5000B01	LEAD ASSY, ML1400DF18 W/#10 RING 36"	1.000 ea
MG1025C02	WILKOFAST SG, 787.105, TAN	0.017 ga
HA3100A20	THRUBOLT 10-32 X 9.812	4.000 ea
LC0145B01	CONNECTION LABEL	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
NP1279L	ALUM FARM DUTY UL CSA CC	1.000 ea
NP1263L	AUX, GP, ALUM, CC, LASER ETCHED	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

Accessories

Part number	Description	Multiplier
35-3300FD	C FACE KIT FARM DUTY 143-5TC ENCL, 6205	A8

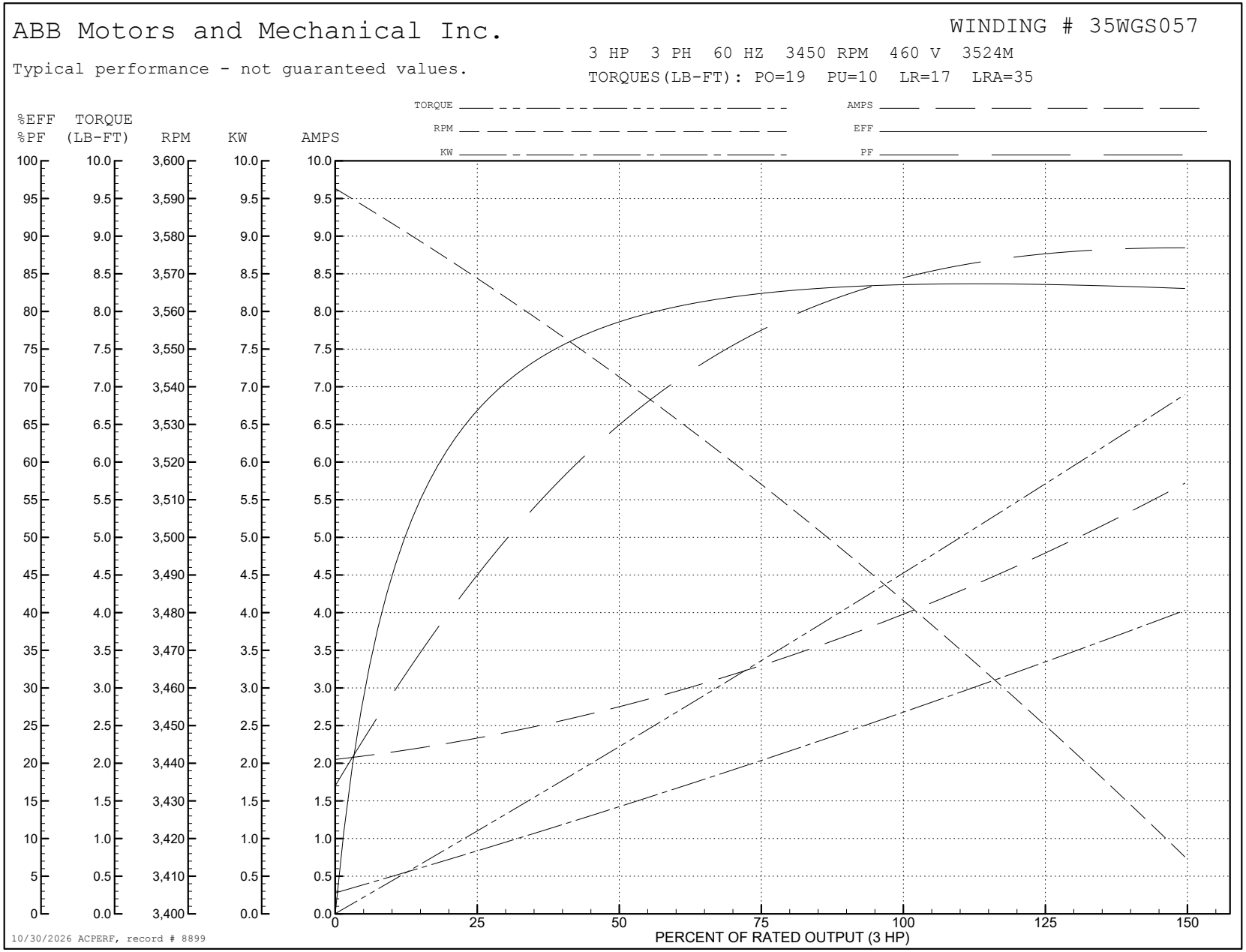
AC Induction Motor Performance Data
Record # 8899
Typical performance - not guaranteed values

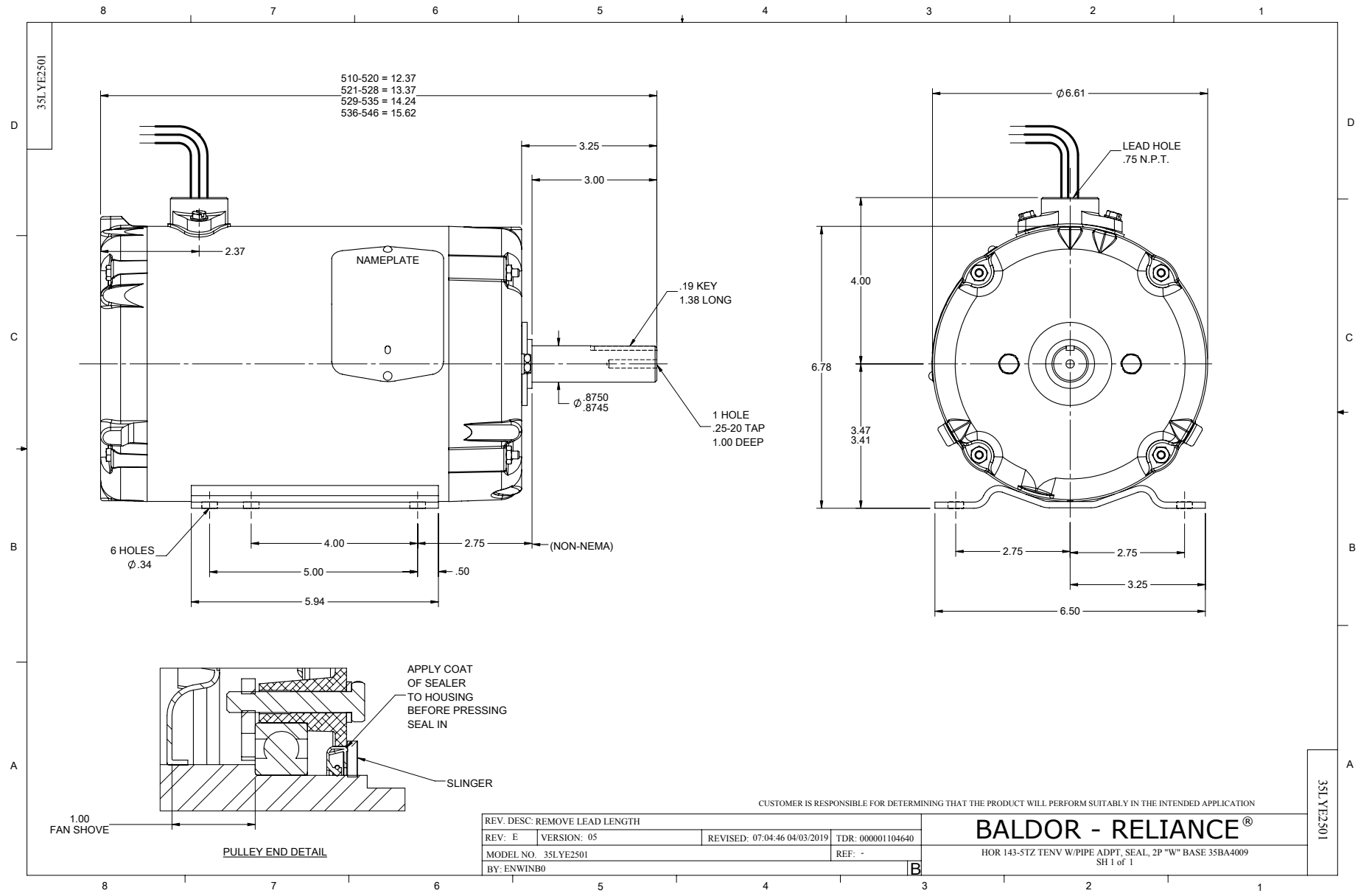
Winding: 35WGS057-R001	**Type:** 3524M	**Enclosure:** OPAO

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1.5-3	**Full Load Torque**	4.6 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			8.5-8.2/4.1	**Breakdown Torque**	19 LB-FT
R.P.M.			3450	**Pull-up Torque**	10 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	17 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	35 A
Service Factor (S.F.)			1	**No-load Current**	2.1 A
NEMA Nom. Eff.	80	**Power Factor**	83	**Line-line Res. @ 25ºC**	4.81 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	

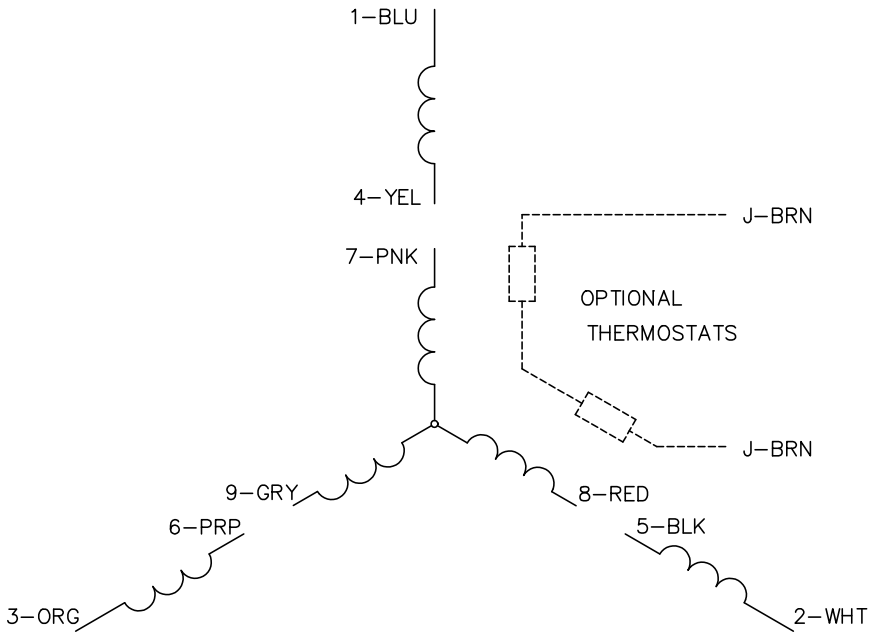
Load Characteristics 460 V, 60 Hz, 3 HP

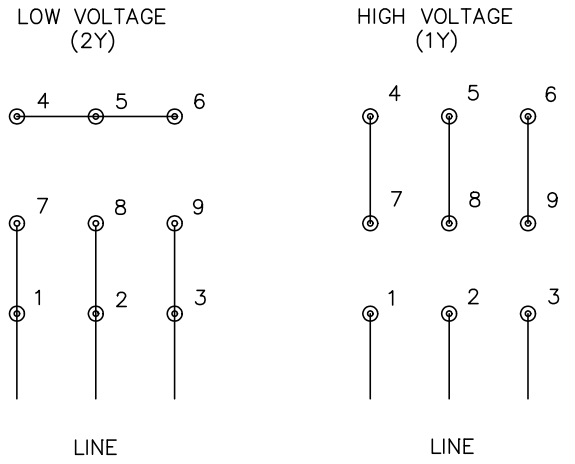
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	46	66	77	83	86	89
Efficiency	66.6	78.6	83	83.8	83.5	83
Speed	3567	3541	3512	3481	3449	3415
Line amperes	2.3	2.7	3.4	4.1	4.8	5.7


ABB Motors and Mechanical Inc.
WINDING # 35WGS057
3 HP 3 PH 60 HZ 3450 RPM 460 V 3524M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=19 PU=10 LR=17 LRA=35
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (3 HP)
10/30/2026 ACPERF, record # 8899


35LYE2501
510-520 = 12.37
521-528 = 13.37
529-535 = 14.24
536-546 = 15.62
3.25
3.00
2.37
NAMEPLATE
.19 KEY
1.38 LONG
Ø.8750
.8745
1 HOLE
.25-20 TAP
1.00 DEEP
6 HOLES
Ø.34
4.00
2.75
(NON-NEMA)
5.00
.50
5.94
Ø6.61
LEAD HOLE
.75 N.P.T.
4.00
6.78
3.47
3.41
2.75
2.75
3.25
6.50
APPLY COAT
OF SEALER
TO HOUSING
BEFORE PRESSING
SEAL IN
SLINGER
1.00
FAN SHOVE
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REMOVE LEAD LENGTH
REV: E
VERSION: 05
REVISED: 07:04:46 04/03/2019
TDR: 000001104640
MODEL NO. 35LYE2501
REF: -
BY: ENWINB0
B
BALDOR - RELIANCE®
HOR 143-5TZ TENV W/PIPE ADPT, SEAL, 2P "W" BASE 35BA4009
SH 1 of 1
35LYE2501

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