ABB BALDOR RELIANCE

Customer information packet

CJEWDM3559

3HP, 3450RPM, 3PH, 60HZ, 56J, 3540M, TEFC, F1, N
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	56J
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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	7.700 A @ 208.0 V
	7.000 A @ 230.0 V
	3.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	L
Type	AC
Mech. spec.	35E2234
Base	
Status	PRD/A
Elec. spec.	35WGQ130
Layout	35LYE2234
Eff. date	06-27-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	07-01-2015

Heater Indicator	No Heater
High Voltage Full Load Amps	3.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M
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	3540M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.98 IN
Power Factor	92
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Ext Thread
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	Shaft 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

NP2179L											
CAT.NO.	CJEWDM3559										
SPEC.	35E2234Q130G2										
HP	3										
VOLTS	208-230/460										
AMP	7.7-7/3.5										
RPM	3450										
FRAME	56J		**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	M	**DES**	B	**CLASS**	F				
NEMA-NOM-EFF	87.5	**PF**	92								
RATING	40C AMB-CONT										
CC	010A										
DE	6205		**ODE**	6203							
ENCL	TEFC	**SN**									
BLANK											

Parts List

Part number	Description	Quantity
SA303421	SA 35E2234Q130G2	1.000 ea
RA290551	RA 35E2234Q130G2	1.000 ea
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB3008A01G	SPL CONDUIT BOX, MACHINED GRAY	1.000 ea
35GS1022A03	GASKET BOX .125 THK WHITE NEOPRENE	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
35EP3122B00W	MASTER ODE,203 BRG,.683SH,.125NPT DRNS,F	1.000 ea
HW4072A01	BLACK DRAIN PLUG FOR .125 NPT	3.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
HW4600B39SP	V-RING SLINGER 0.550 X 0.790 X .18 VITON	1.000 ea
12XN1032S20	10-32 X 1-1/4 HEX M.S. , STAINLESS STEEL	2.000 ea
35EP3307E00W	MASTER DE,205 BRG,1.623SH,.125NPT DRNS,C	1.000 ea
HW4072A01	BLACK DRAIN PLUG FOR .125 NPT	3.000 ea
HW4600B49	SEAL 0.938 X 1.624 X 0.250 SINGLE LIP DB	1.000 ea
HW4600B46	V-RING SLINGER 0.875 X 1.420 X .24 VITON	1.000 ea
35FH4005A55	IEC FH NO GRSR,3 MTG HOLE NO DIMPLES,	1.000 ea
11XW1032S06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	3.000 ea
WD4100A10	465 NIAGARA PLUG (SO ELEC),FOR 1.093 DIA	1.000 ea
35CB4522	35 LIPPED CB LID PRIMED	1.000 ea
35GS1030A02	35 GS FOR CB LID - WHITE NEOPRENE	1.000 ea
59XW0832S07	TAPTITE II,HEX WSHR UNSLTD SER,410 S.S.,	4.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1164	LABEL,WARNING AND DRAIN	1.000 ea
HA5027A02	HA4054 T-DRAIN X2 BAGGED WITH LABEL	1.000 ea
RM1010A12	.437 I.D. 1" VINYL CAP (SHORT) MOCAP	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
MG1025W01	WILKOFAST, 781.01, SIGNAL WHITE #9003	0.017 ga

MG1025Z02	ACTIVATOR WILKOFAST 060.02HF	0.010 ga
HA3100S03	THRUBOLT- 10-32 X 10.625 302 OR 303 SS	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP2179L	SS WD SUPER-E UL CC REV MTG	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
PE-0000002	ZRTG PE ASSEMBLY	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data
Record # 8289
Typical performance - not guaranteed values

Winding: 35WGQ130-R001	**Type:** 3540M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	4.59 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			7.7-7/3.5	**Breakdown Torque**	20.5 LB-FT
R.P.M.			3450	**Pull-up Torque**	9.62 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	18.2 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	39.19 A
Service Factor (S.F.)			1.15	**No-load Current**	1.14 A
NEMA Nom. Eff.	87.5	**Power Factor**	92	**Line-line Res. @ 25ºC**	4.032 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	58°C
S.F. Amps				**Temp. Rise @ S.F. Load**	71°C
				Locked-rotor Power Factor	44
				Rotor inertia	0.111 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	60	81	88	92	94	93	93
Efficiency	82.6	87.7	88.3	87.6	86.3	84.4	86.8
Speed	3564	3536	3506	3474	3439	3399	3453
Line amperes	1.46	2.04	2.74	3.53	4.38	5.34	4.04

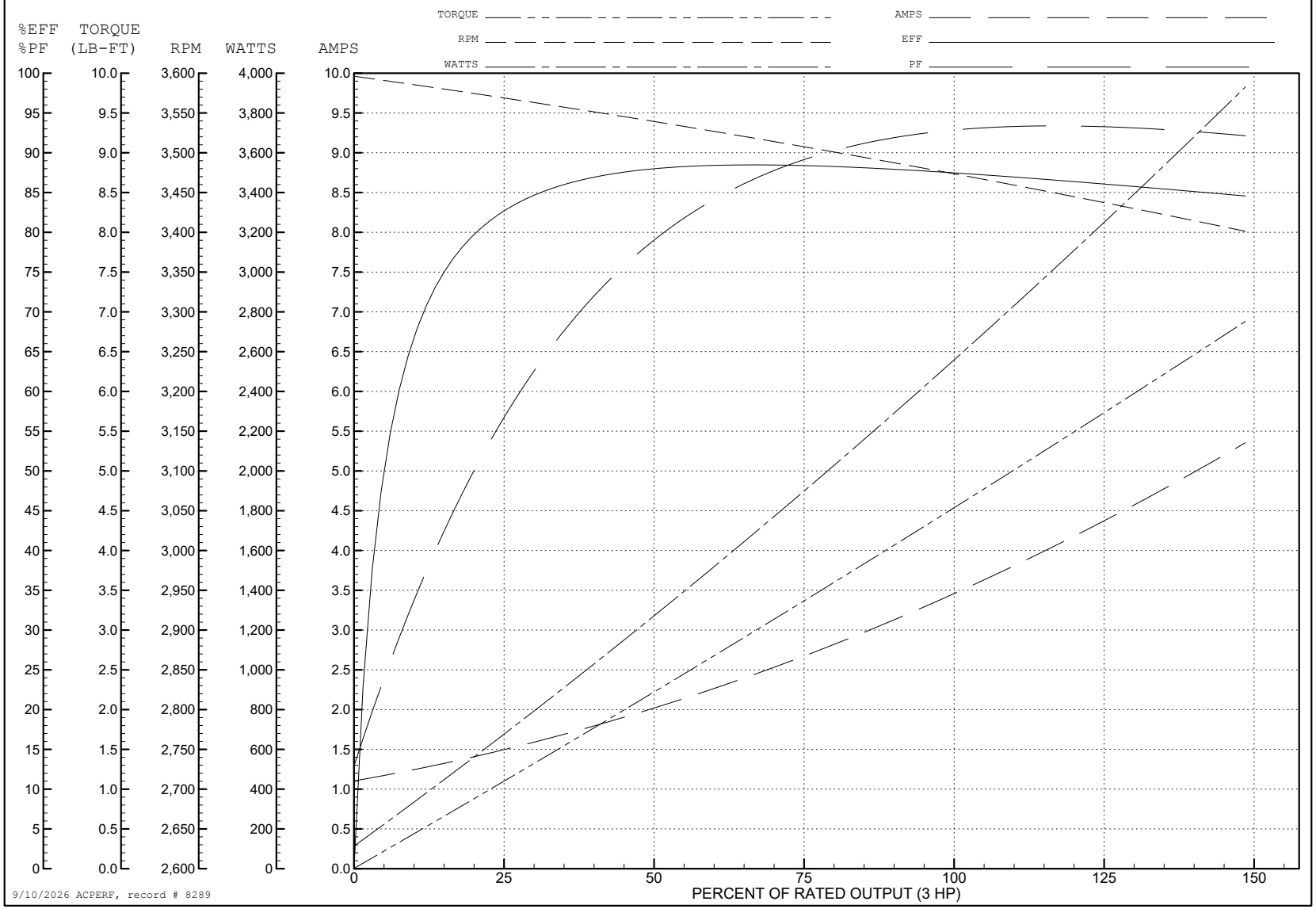
ABB Motors and Mechanical Inc.

WINDING # 35WGQ130

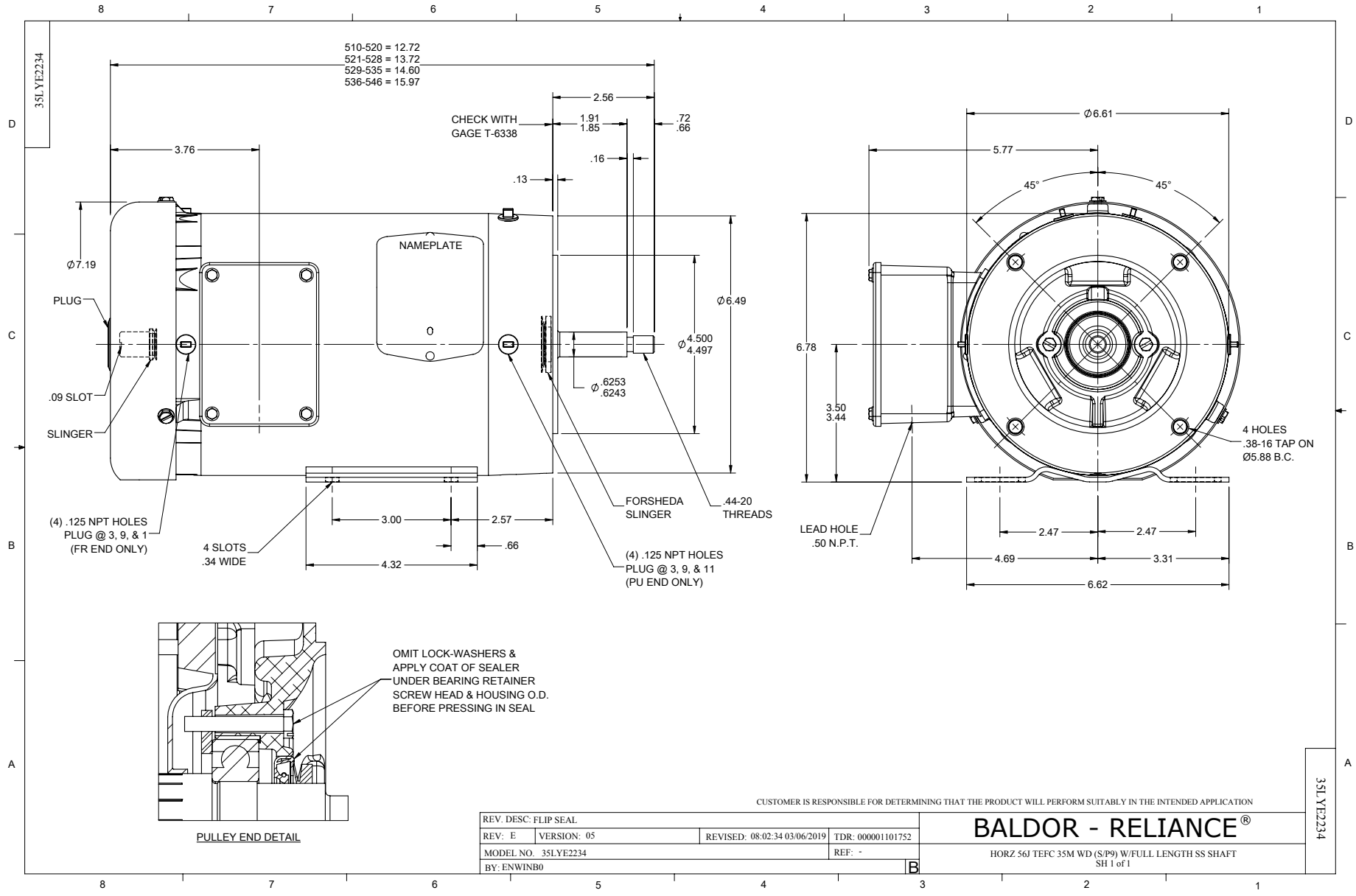
3 HP 3 PH 60 HZ 3450 RPM 460 V 3540M

Typical performance - not guaranteed values.

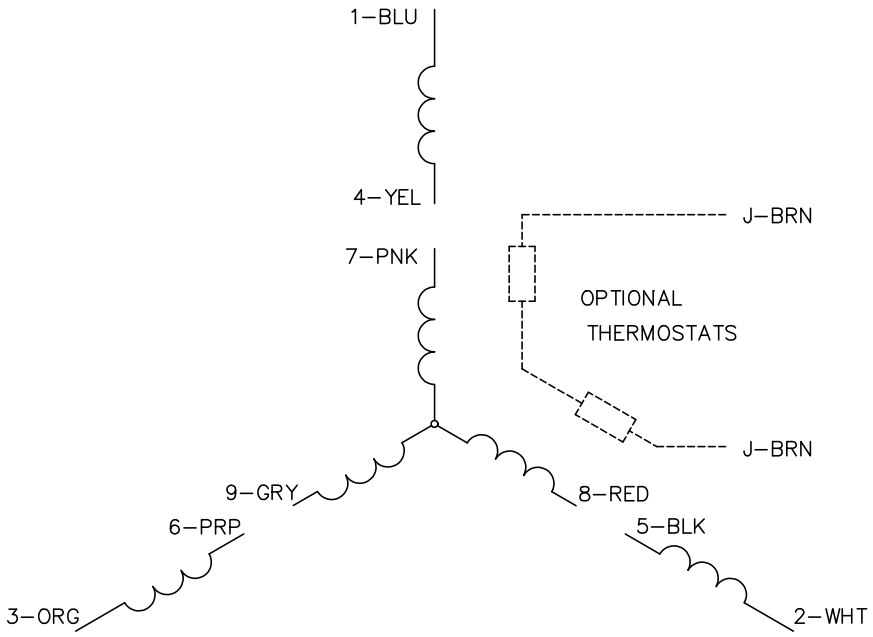
TORQUES(LB-FT): PO=20.5 PU=9.62 LR=18.2 LRA=39.19

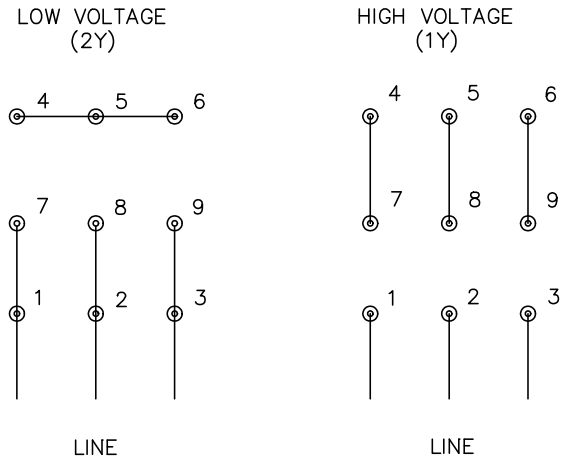


9/10/2026 ACPERF, record # 8289


35LYE2234
510-520 = 12.72
521-528 = 13.72
529-535 = 14.60
536-546 = 15.97
2.56
CHECK WITH GAGE T-6338
1.91
1.85
.72
.66
3.76
.16
.13
NAMEPLATE
Ø7.19
PLUG
Ø6.49
Ø4.500
4.497
.09 SLOT
SLINGER
Ø.6253
.6243
(4) .125 NPT HOLES
PLUG @ 3, 9, & 1
(FR END ONLY)
4 SLOTS
.34 WIDE
3.00
2.57
.66
4.32
FORSHEDA
SLINGER
.44-20
THREADS
(4) .125 NPT HOLES
PLUG @ 3, 9, & 11
(PU END ONLY)
Ø6.61
5.77
45°
45°
6.78
3.50
3.44
4 HOLES
.38-16 TAP ON
Ø5.88 B.C.
LEAD HOLE
.50 N.P.T.
2.47
2.47
4.69
3.31
6.62
OMIT LOCK-WASHERS &
APPLY COAT OF SEALER
UNDER BEARING RETAINER
SCREW HEAD & HOUSING O.D.
BEFORE PRESSING IN SEAL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: FLIP SEAL
REV: E
VERSION: 05
REVISED: 08:02:34 03/06/2019
TDR: 000001101752
MODEL NO. 35LYE2234
REF: -
BY: ENWINB0
B
BALDOR - RELIANCE®
HORZ 56J TEFC 35M WD (S/P9) W/FULL LENGTH SS SHAFT
SH 1 of 1
35LYE2234

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