ABB BALDOR RELIANCE

Customer information packet

CEWDM3545

1HP, 3450RPM, 3PH, 60HZ, 56C, 3516M, TEFC, F1, N
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	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 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	1.400 A @ 460.0 V
	2.800 A @ 230.0 V
	3.000 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	77.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	AH
Type	AC
Mech. spec.	35T986
Base	
Status	PRD/A
Elec. spec.	35WGY474
Layout	35LYT986
Eff. date	08-28-2025
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	04-27-2010

High Voltage Full Load Amps	1.4 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
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	3516M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.24 IN
Power Factor	87
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
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

NP1669L									
CAT.NO.	CEWDM3545								
SPEC.	35T986Y474G1								
HP	1								
VOLTS	230/460								
AMP	2.8/1.4								
RPM	3450								
FRAME	56C	**HZ**	60			**PH**	3		
SER.F.	1.25	**CODE**	K	**DES**	B	**CLASS**	F		
NEMA-NOM-EFF	77	**PF**	87						
RATING	40C AMB-CONT								
CC	010A								
DE	6205	**ODE**	6203						
ENCL	TEFC	**SN**							
BLANK	SFA 3.4/1.7								

Parts List

Part number	Description	Quantity
SA194359	SA 35T986Y474G1	1.000 ea
RA181949	RA 35T986Y474G1	1.000 ea
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35GS1039	05 MOLDED GASKET W/LIP, 1.12 LEAD HOLE,	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
HW4072A01	BLACK DRAIN PLUG FOR .125 NPT	3.000 ea
HW5100A03	WAVY WASHER (W1543-017)	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
12XN1032S20	10-32 X 1-1/4 HEX M.S. , STAINLESS STEEL	2.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
35FH4005A32	IEC FH NO GRSR W/3 HOLES - PRIMED	1.000 ea
11XW1032S06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	3.000 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
HW4600B39SP	V-RING SLINGER 0.550 X 0.790 X .18 VITON	1.000 ea
HW4600B46	V-RING SLINGER 0.875 X 1.420 X .24 VITON	1.000 ea
HW2502D13	SS KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
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
35CB3008A01G	SPL CONDUIT BOX, MACHINED GRAY	1.000 ea
35EP3122B00W	MASTER ODE,203 BRG,.683SH,.125NPT DRNS,F	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1025Z02	ACTIVATOR WILKOFAST 060.02HF	0.010 ga
35EP3307E00W	MASTER DE,205 BRG,1.623SH,.125NPT DRNS,C	1.000 ea
35CB4510W	35 CB LID W/WHITE EPOXY	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt

MG1025W01	WILKOFAST, 781.01, SIGNAL WHITE #9003	0.017 ga
HA3100S08	THRUBOLT 7.375LG SS	4.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP1669L	SS WD SUPER-E UL PREM REV MTG	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	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 # 67481
Typical performance - not guaranteed values

Winding: 35WGY474-R032	**Type:** 3516M	**Enclosure:** TEFC

Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		1	**Full Load Torque**	1.47 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		2.8/1.4	**Breakdown Torque**	5.6 LB-FT
R.P.M.		3450	**Pull-up Torque**	2.56 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	4.62 LB-FT
NEMA Design Code	B **KVA Code**	K	**Starting Current**	10.5 A
Service Factor (S.F.)		1.25	**No-load Current**	0.585 A
NEMA Nom. Eff.	77 **Power Factor**	87	**Line-line Res. @ 25ºC**	20.016 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	41°C
S.F. Amps		3.4/1.7	**Temp. Rise @ S.F. Load**	52°C
			Locked-rotor Power Factor	64.1
			Rotor inertia	0.0443 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	55	72	82	86	89	91	89
Efficiency	58.7	71.7	76.4	77.6	77.4	75.9	77.4
Speed	3563.9	3532.9	3499.6	3459.6	3418.2	3365.9	3418
Line amperes	0.68	0.851	1.08	1.37	1.65	2.01	1.65

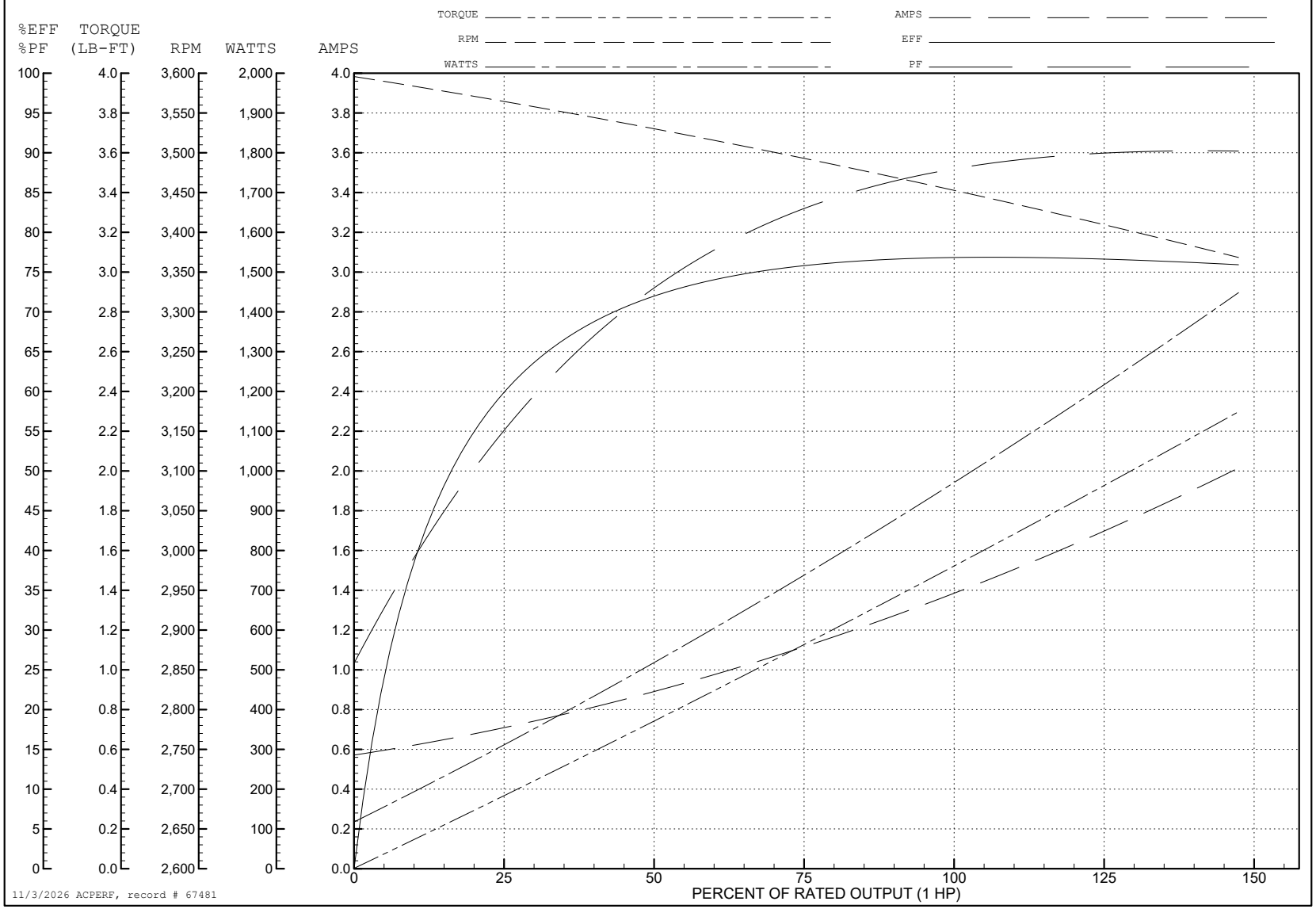
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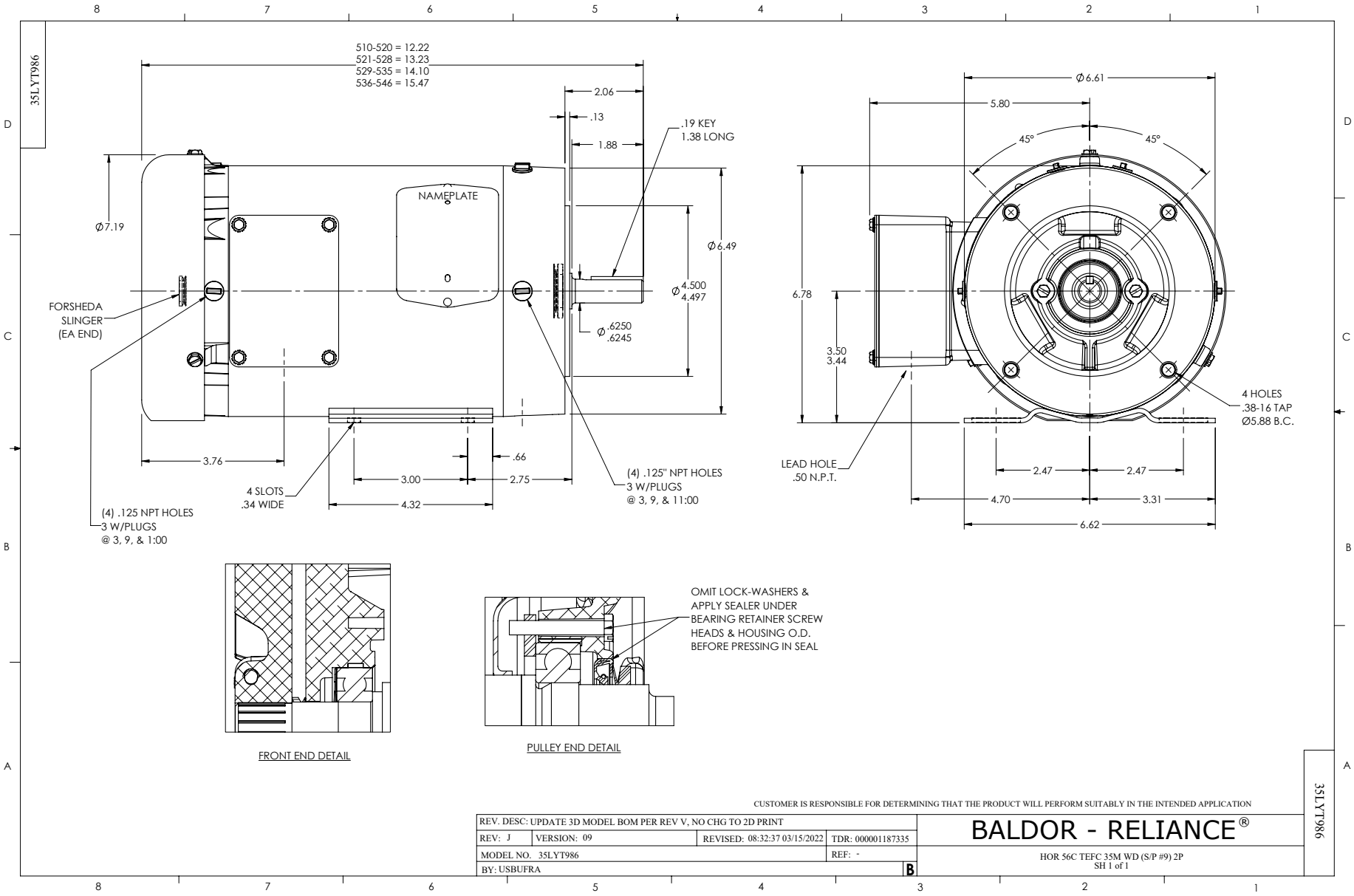
WINDING # 35WGY474

1 HP 3 PH 60 HZ 3450 RPM 460 V 3516M

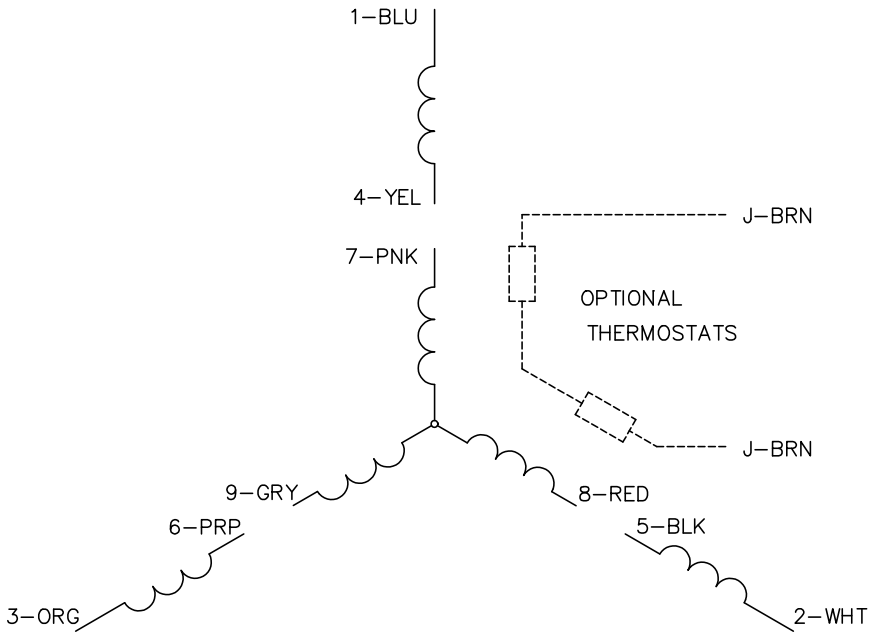
Typical performance - not guaranteed values.

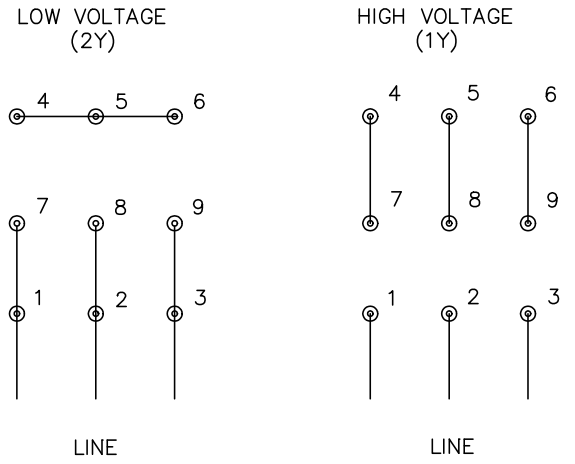
TORQUES(LB-FT): PO=5.6 PU=2.56 LR=4.62 LRA=10.5




35LYT986
510-520 = 12.22
521-528 = 13.23
529-535 = 14.10
536-546 = 15.47
2.06
.13
1.88
.19 KEY
1.38 LONG
NAMEPLATE
Ø7.19
Ø6.49
Ø4.500
4.497
Ø.6250
.6245
FORSHEDA
SLINGER
(EA END)
3.76
.66
3.00
2.75
4.32
4 SLOTS
.34 WIDE
(4) .125 NPT HOLES
3 W/PLUGS
@ 3, 9, & 1:00
(4) .125" NPT HOLES
3 W/PLUGS
@ 3, 9, & 11:00
Ø6.61
5.80
45°
45°
6.78
3.50
3.44
4 HOLES
.38-16 TAP
Ø5.88 B.C.
LEAD HOLE
.50 N.P.T.
2.47
2.47
4.70
3.31
6.62
FRONT END DETAIL
PULLEY END DETAIL
OMIT LOCK-WASHERS &
APPLY SEALER UNDER
BEARING RETAINER SCREW
HEADS & HOUSING O.D.
BEFORE PRESSING IN SEAL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV V, NO CHG TO 2D PRINT
REV: J
VERSION: 09
REVISED: 08:32:37 03/15/2022
TDR: 000001187335
MODEL NO. 35LYT986
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HOR 56C TEFC 35M WD (S/P #9) 2P
SH 1 of 1
35LYT986

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