ABB BALDOR RELIANCE

Customer information packet

IDCSWDM3714T

10HP, 1770RPM, 3PH, 60HZ, 215TC, 3756M, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	215TC
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	12.500 A @ 460.0 V
	25.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
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	12.5 a

Part Detail

Revision	Z
Type	AC
Mech. spec.	37H885
Base	
Status	PRD/A
Elec. spec.	37WGT857
Layout	37LYH885
Eff. date	06-24-2021
CD Diagram	CD0180
Poles	04
Leads	9#14
Proprietary	False
Created date	10-25-2006

Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	6000 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3756M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	21.31 IN
Power Factor	81
Product Family	Wash Down Paint Free
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1770 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

NP1608L									
CAT NO	IDCSWDM3714T								
SPEC.	37H885T857G1								
FRAME	215TC		**HP**	10 TE					
VOLTS	230/460								
MAG CUR	11/5.5			**FLA**	25/12.5				
RPM	1770			**RPM MAX**	6000				
HZ	60	**PH**	3		**CLASS**	H			
SER.F.	1.00	**DES**	B		**SL HZ**	1			
NEMA-NOM-EFF	92.4	**WK2**	1.38						
BLWR V		**PH**		**HZ**		**A**			
RATING	40C AMB-CONT								
DE BRG	6307		**ODE BRG**	6206					
CC	010A	**SN**							

Parts List

Part number	Description	Quantity
SA151113	SA 37H885T857G1	1.000 ea
RA139945	RA 37H885T857G1	1.000 ea
37FN3002B01	EXFN, PLASTIC, 7.50 OD, 1.155 ID	1.000 ea
HW3200S01	EYEBOLT 3/8-16 X3/4 S.S. TDR #35988	1.000 ea
37CB3000A40MU	K.O. BOX-MODEL 37 NEMA 213-5 .75 NPT LEA	1.000 ea
37GS1025	37 MOLDED GASKET W/LIP, LEAD SEAL	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
HA5027A04	HA4054 T-DRAIN X2 BAGGED	1.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
37EP3101A49MU	FR EP 37 L & M TEFC (FOR S.P. #9D)	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	3.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37EP3300A25MU	FACE MT EP-ENCL-307 BRG-213TC-215TC NO G	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	3.000 ea
HW4606A04	JM CLIPPER/SEAL (LWE-1376-2125-AL45)	1.000 ea
10XN2520S30	1/4-20 X 1 7/8 HEX HEAD SS	4.000 ea
XY3118S12	5/16-18 HEX NUT, STAINLESS STEEL	4.000 ea
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 ea
37FH4000A45	STAINLESS FAN COVER, NO GREASER SLOT (FO	1.000 ea
11XW1032S06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	3.000 ea
36CB4517	LIPPED CB LID #304 STAINLESS - CLEANED	1.000 ea
37GS3010SP	1/16"WHITE LID GASKET	1.000 ea
59XW0832S07	TAPTITE II,HEX WSHR UNSLTD SER,410 S.S.,	4.000 ea
HW4600B74	V-RING SLINGER 1.125 X 1.445 X .24 VITON	1.000 ea
HW2502F21	#303 SS,SQ KEY 5/16 X 2.375	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
MJ5001A02	732 CL SEALANT 3 OZ DIXIE BEARING 289100	0.001 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1164	LABEL,WARNING AND DRAIN	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb

HA3104S25	THRUBOLT-5/16-18X14.75 SS	4.000 ea
LC0181	CONNECTION LABEL	1.000 ea
NP1608L	SS WD INV UL CSA CC REV MTG	1.000 ea
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

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AC Induction Motor Performance Data

Record # 37139
Typical performance - not guaranteed values

Winding: 37WGT857	**Type:** 3756M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)	10		
Volts	230/460		
Full Load Amps	25/12.5		
R.P.M.	1770		
Hz	60	Phase	3
NEMA Design Code	B	KVA Code	K
Service Factor	1		
NEMA Nom. Eff.	92.4	P.F.	81
Rating - Duty	40C AMB-CONT		
S.F. Amps			

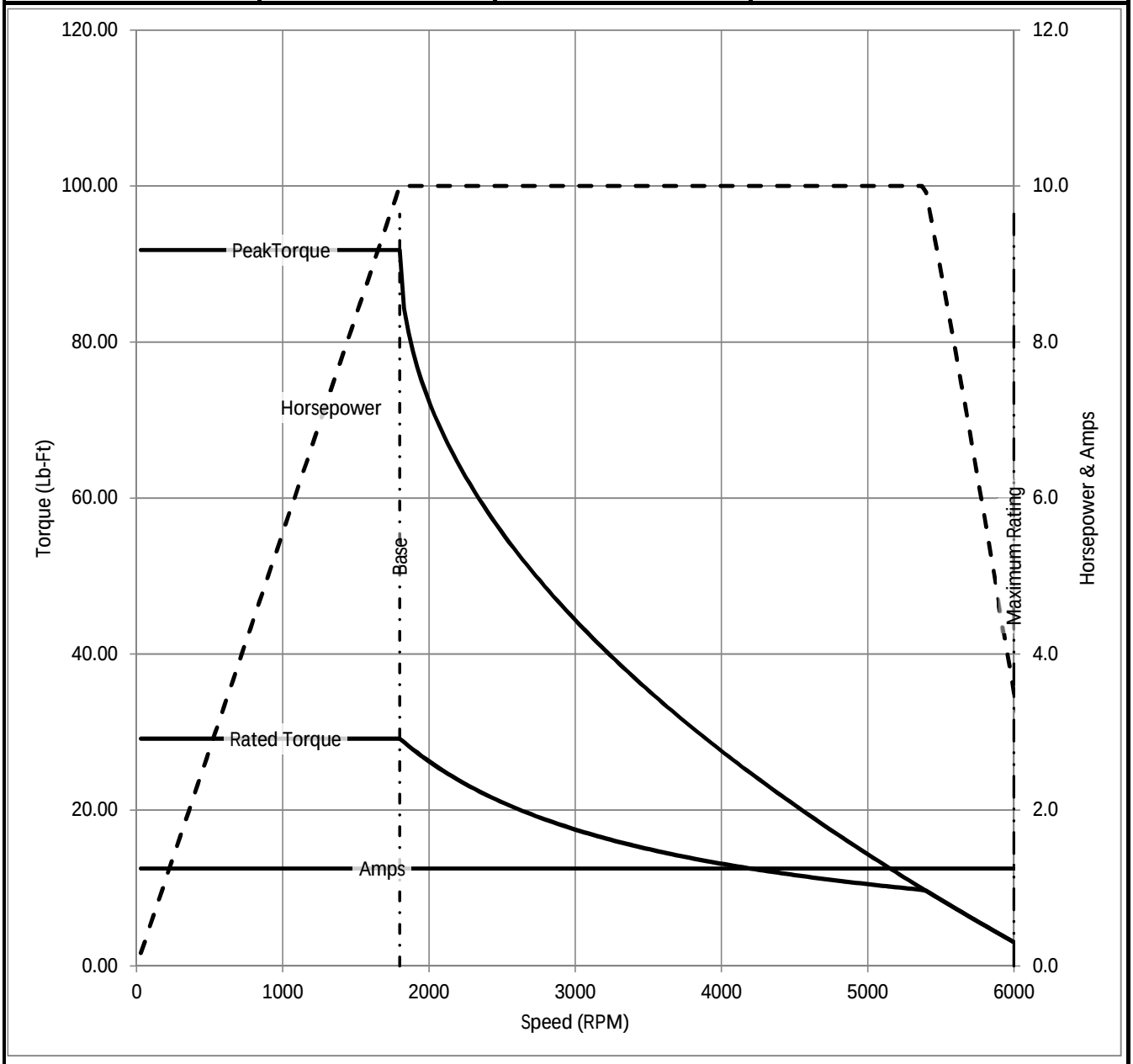
General Characteristics at 460 V, 60 Hz: High Volt Connection	
Full Load Torque	29.9 LB-FT
Start Configuration	DOL
Break Down Torque	102 LB-FT
Pull-Up Torque	53.6 LB-FT
Locked-rotor Torque	74.2 LB-FT
Starting Current	105 Amps
No-load Current	5.44 Amps
Line-line Res. @ 25°C.	0.799 Ohms
Temp. Rise @ Rated Load	76°C
Temp. Rise @ S.F. Load	

Load Characteristics at 460 Volts, 60 Hz, 10 HP

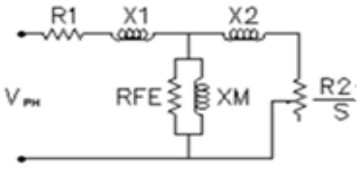
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	65	76	81	83	84	
Efficiency	88	92.6	93.3	93	92.4	91.5	
Speed	1793	1786	1778	1770	1762	1752	
Line Amperes	6.18	7.79	10	12.5	15.3	18.3	

Baldor Electric Company Fort Smith, Arkansas BALDOR • RELIANCE

Catalog	IDCSWDM3714T	NP VOLTS	230/460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
FRAME	215TC	NP AMPS	25/12.5	Base Volts	460	R1	0.423	X1	1.876
HP	10 HP	DUTY	Cont	Base AMPS	12.5	R2	0.300	X2	1.587
BASE SPEED	1800	MAX SAFE RPM	6000	Slip Hz	1.00			XM	44.849
PHASE/HZ	3/60	AMB^{0}C/INSUL	40/H	WK^2 (lb-ft^2)	1.38				



Remarks: Calculated Data



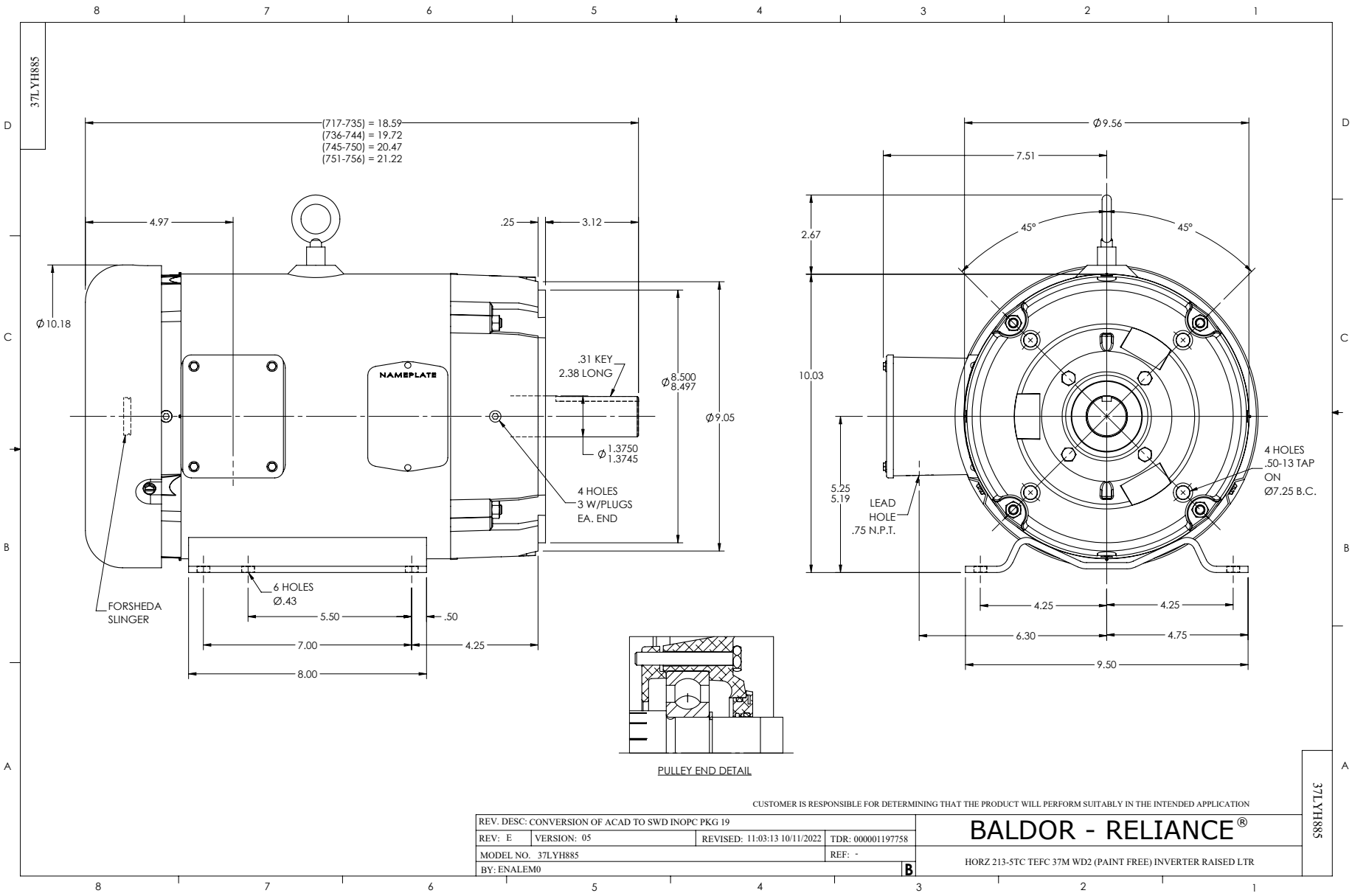
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DR BY ENR
CK BY
APP BY ENR
DATE 3/6/2013

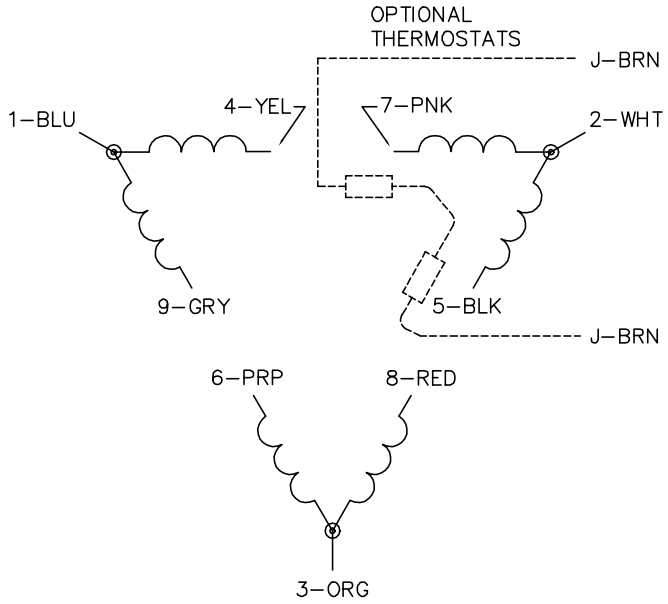
A-C MOTOR
PERFORMANCE CURVES

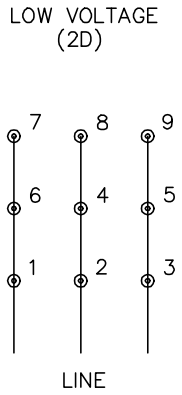
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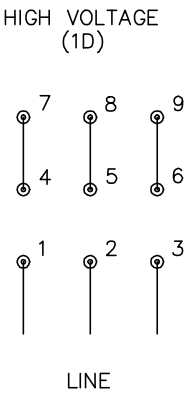
ISSUE DATE 3/6/2013


37LYH885
(717-735) = 18.59
(736-744) = 19.72
(745-750) = 20.47
(751-756) = 21.22
4.97
.25
3.12
Ø10.18
NAMEPLATE
.31 KEY
2.38 LONG
Ø8.500
8.497
Ø9.05
Ø1.3750
1.3745
4 HOLES
3 W/PLUGS
EA. END
FORSHEDA
SLINGER
6 HOLES
Ø.43
5.50
.50
7.00
4.25
8.00
Ø9.56
7.51
2.67
45°
45°
10.03
5.25
5.19
LEAD
HOLE
.75 N.P.T.
4 HOLES
.50-13 TAP
ON
Ø7.25 B.C.
4.25
4.25
6.30
4.75
9.50
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERSION OF ACAD TO SWD INOPC PKG 19
REV: E
VERSION: 05
REVISED: 11:03:13 10/11/2022
TDR: 000001197758
MODEL NO. 37LYH885
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 213-5TC TEFC 37M WD2 (PAINT FREE) INVERTER RAISED LTR
37LYH885

CD0180







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.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1