ABB BALDOR RELIANCE

Customer information packet

EM3714T-9

10HP, 1770RPM, 3PH, 60HZ, 215T, 3760M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	215T
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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	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	13.100 A @ 460.0 V
	26.200 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	G
Type	AC
Mech. spec.	37N852
Base	
Status	PRD/A
Elec. spec.	37WGT851
Layout	37LYN852
Eff. date	05-13-2024
CD Diagram	CD0180
Poles	04
Leads	9#14
Proprietary	False
Created date	04-09-2016

Heater Indicator	No Heater
High Voltage Full Load Amps	13.1 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3760M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	21.02 IN
Power Factor	78
Product Family	WP Below Decks Marine Duty
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
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	None
Vibration Sensor Indicator	No Vibration Sensor

Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1267L									
CAT.NO.	EM3714T-9								
SPEC.	37N852T851G1								
HP	10								
VOLTS	230/460								
AMP	26.2/13.1								
RPM	1770								
FRAME	215T	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	J	**DES**	A	**CL**	F		
NEMA-NOM-EFF	91.7	**PF**	78						
RATING	40C AMB-CONT								
CC	010A								
DE	6307	**ODE**	6206						
ENCL	TEFC	**SN**							
	MEETS DESIGN C TORQUE IP55								

Parts List

Part number	Description	Quantity
SA318379	SA 37N852T851G1	1.000 ea
RA306015	RA 37N852T851G1	1.000 ea
37FN3002C01	EXFN, PLASTIC, 6.00 OD, 1.155 ID	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
37CB3005A04	37 CB .75 NPT @ 6:00	1.000 ea
37GS1002	1/8" NEOPRENE GASKET, CONDUIT BOX	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
37EP3101C12	FREP TEFC L&M W/GRSR,REL,SLINGER, DRAIN	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37EP3100B12	PUEP 307 BRG W/GREASER,RELIEF,.125	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
HA3104A29	THRUBOLT, .31-18 X 15.19	4.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
07FH4007SP	PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	1.000 ea
37GS1008A01	37 GS FOR CB LID - BLACK NEOPRENE	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW4600B36SP	V-RING SLINGER 1.188 X 1.380 X .24 VITON	1.000 ea
HW4600B31SP	V-RING SLINGER 1.438 X 1.758 X .24 VITON	1.000 ea
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea

MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.028 ga
LC0181	CONNECTION LABEL	1.000 ea
NP1267L	SS SUPER-E UL EEV CC NEMA PREM LASER ETC	1.000 ea
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	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

AC Induction Motor Performance Data
Record # 58159
Typical performance - not guaranteed values

Winding: 37WGT851-R001	**Type:** 3760M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			10	**Full Load Torque**	29.8 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			25.6/12.8	**Breakdown Torque**	94.5 LB-FT
R.P.M.			1770	**Pull-up Torque**	54 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	91.1 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	90.1 A
Service Factor (S.F.)			1.15	**No-load Current**	6.23 A
NEMA Nom. Eff.	92.4	**Power Factor**	79	**Line-line Res. @ 25ºC**	0.79976 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	64°C
S.F. Amps				**Temp. Rise @ S.F. Load**	78°C
				Locked-rotor Power Factor	37.8

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	38	60	72	78	81	82	80
Efficiency	87.5	91.8	92.4	92.1	91.3	90.2	91.6
Speed	1792.1	1784.7	1776.9	1767.8	1758.4	1747.7	1762
Line amperes	6.87	8.43	10.5	13.1	15.9	19	14.8

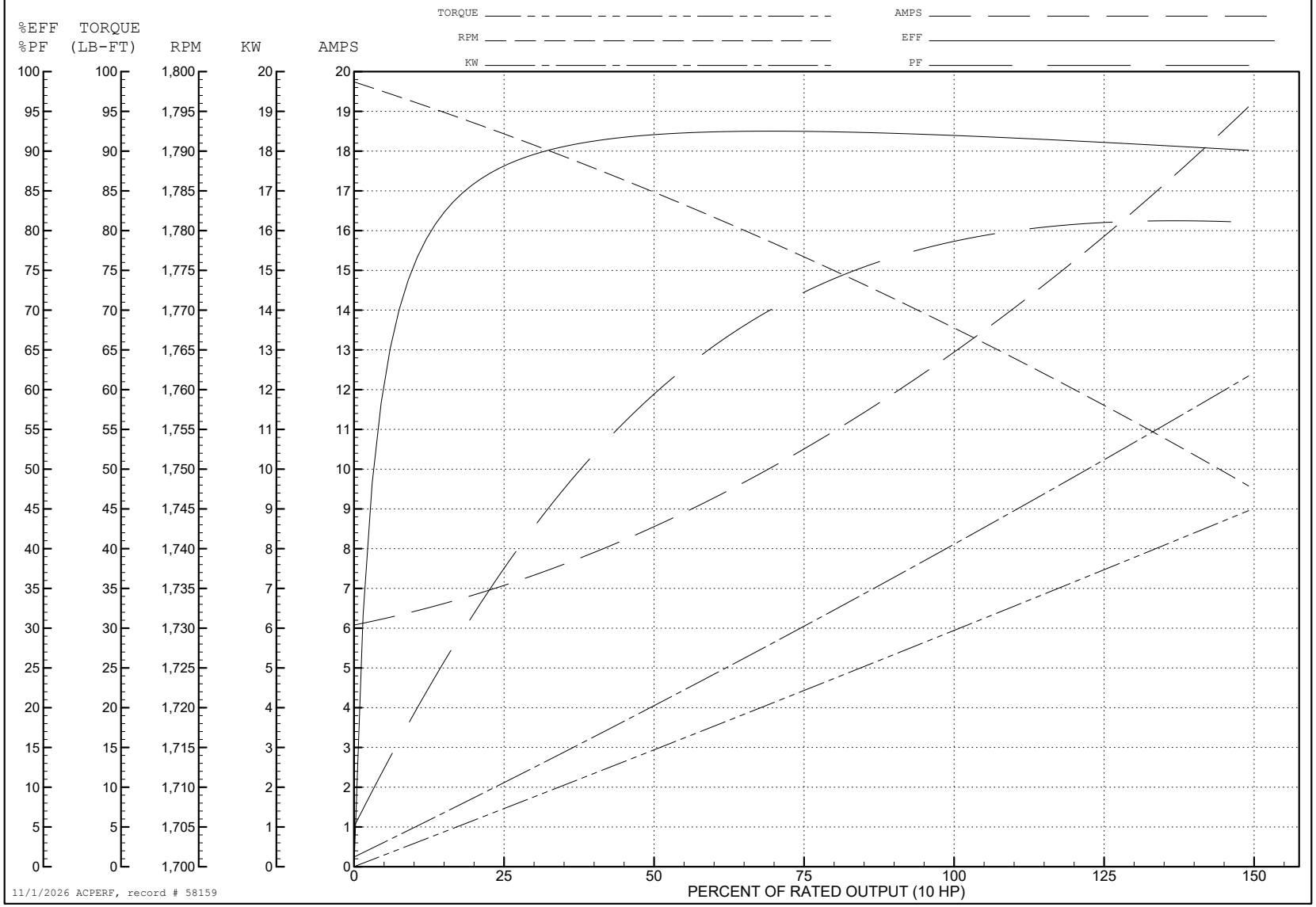
ABB Motors and Mechanical Inc.

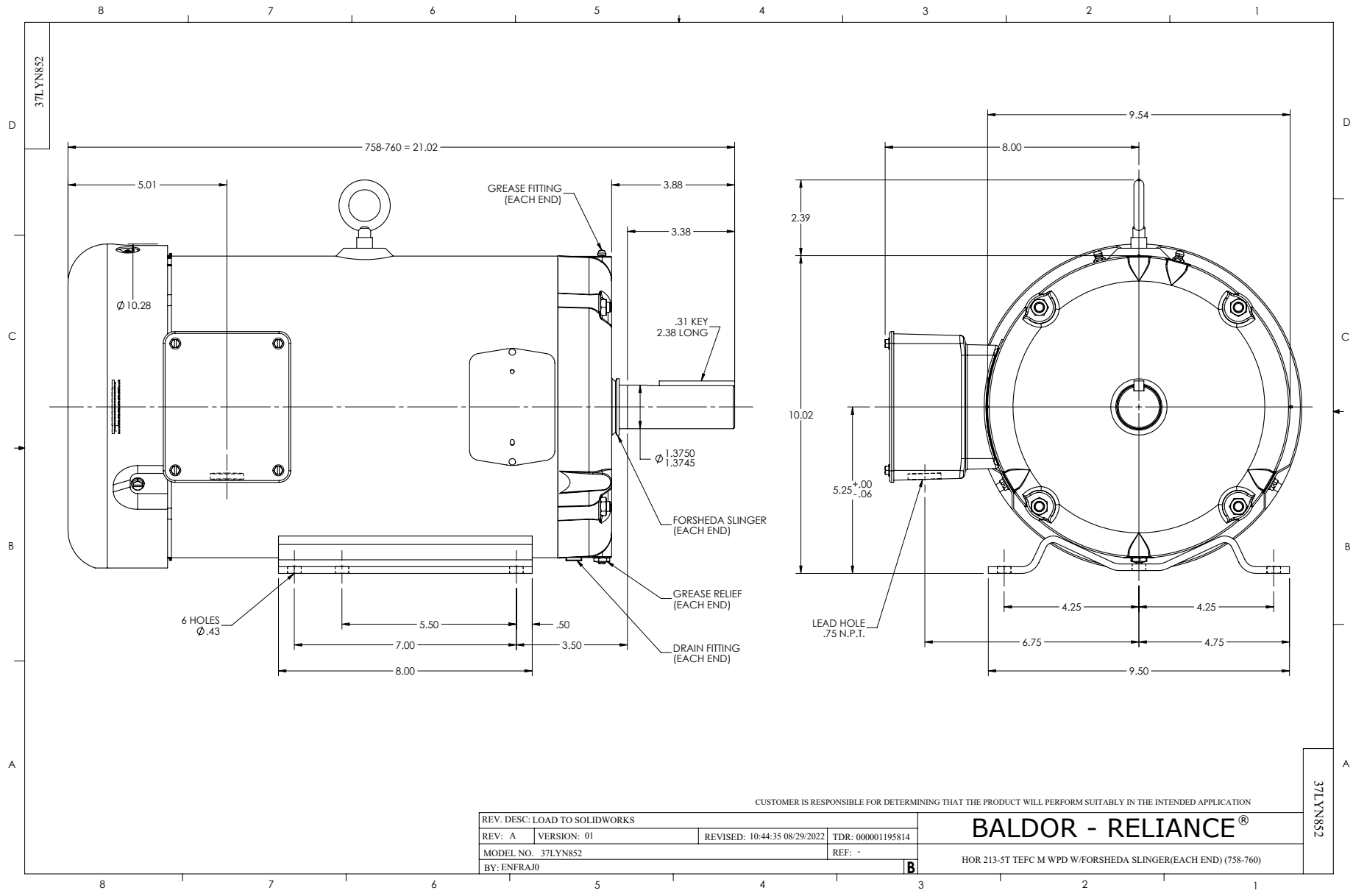
WINDING # 37WGT851

10 HP 3 PH 60 HZ 1770 RPM 460 V 3760M

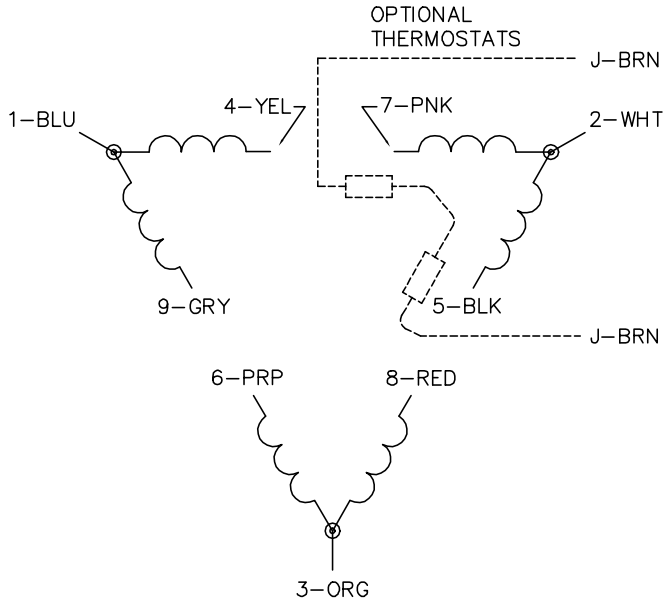
Typical performance - not guaranteed values.

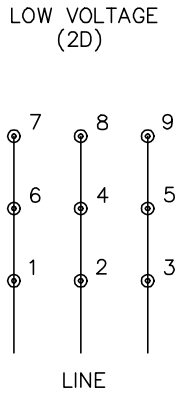
TORQUES(LB-FT): PO=94.5 PU=54 LR=91.1 LRA=90.1

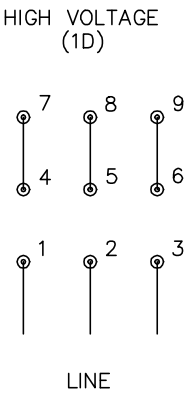



37LYN852
758-760 = 21.02
5.01
3.88
3.38
GREASE FITTING (EACH END)
Ø 10.28
.31 KEY 2.38 LONG
Ø 1.3750 1.3745
FORSHEDA SLINGER (EACH END)
GREASE RELIEF (EACH END)
DRAIN FITTING (EACH END)
6 HOLES Ø .43
5.50
.50
7.00
3.50
8.00
9.54
8.00
2.39
10.02
5.25 +.00 -.06
LEAD HOLE .75 N.P.T.
4.25
4.25
6.75
4.75
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD TO SOLIDWORKS
REV: A
VERSION: 01
REVISED: 10:44:35 08/29/2022
TDR: 000001195814
MODEL NO. 37LYN852
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
HOR 213-5T TEFC M WPD W/FORSHEDA SLINGER(EACH END) (758-760)
37LYN852

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

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