



Product Information Packet

ECP83771T-4

10HP,3475RPM,3PH,60HZ,215T,0742M,TEFC,F1

Part Detail							
Revision:	AD	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	07WGY930	CD Diagram:	CD0006	Mfg Plant:	
Mech. Spec:	07K629	Layout:	07LYK629	Poles:	02	Created Date:	01-14-2012
Base:	RG	Eff. Date:	08-29-2022	Leads:	3#14		

Specs			
Catalog Number:	ECP83771T-4	Insulation Class:	F
Enclosure:	TEFC	Inverter Code:	Inverter Duty
Frame:	215T	KVA Code:	H
Frame Material:	Iron	Lifting Lugs:	Standard Lifting Lugs
Motor Letter Type:	Three Phase	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	10.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	3 @ 14 AWG
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	CLI GP A,B,C,D	Motor Type:	0742M
XP Division:	Division II	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	91
	CSA EEV	Product Family:	Super-E Chemical Processing
	UR	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Extension Location:	Pulley End
Blower:	None	Shaft Ground Indicator:	No Shaft Grounding

Constant Torque Speed Range:	6	Shaft Rotation:	Reversible
Current @ Voltage:	11.300 A @ 460.0 V	Shaft Slinger Indicator:	Shaft Slinger
Design Code:	B	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Enclosure Modification:	841	Thermal Device - Winding:	None
Feedback Device:	NO FEEDBACK	Vibration Sensor Indicator:	No Vibration Sensor
Front Face Code:	Standard	Winding Thermal 1:	None
Front Shaft Indicator:	None	Winding Thermal 2:	None
Heater Indicator:	No Heater	XP Temp Code:	T3C

Nameplate NP3235E

CAT.NO.	ECP83771T-4			
SPEC.	07K629Y930G1			
HP	10	TE	IP	56
VOLTS	460			
AMPS	11.3			
R.P.M.	3500			
FRAME	215T	HZ	60	
SER.F.	1.15	CODE	H	DES. B
RATING	40C AMB-CONT			
SN				
DE	6307	ODE	6307	
NEMA NOM. EFF.	91	P.F.	91	
GUAR. MIN. EFF.	89.5	CC	010A	
T. CODE	T3C	TEMP=	160	
		PH	3	CLASS F

Nameplate NP3186E

SPEC.	07K629Y930G1		
ABMA DE BRG	35BC03X30X		
ABMA ODE BRG	35BC03X30X		
GREASE	POLYREX EM		
MOTOR WEIGHT	225	ROTOR BARS	28
MAX. R.P.M.	5400	MAX. KVAR	N/A
STATOR BARS	36		
INV.TYPE	PWM		
T=	160		
CHP	60	TO	90
CT	6	TO	60
VT	3	TO	60
HTR-VOLTS	N/A	HTR-AMPS	N/A
HTR-WATTS		MAX. SPACE HEATER TEMP.	N/A

AC Induction Motor Performance Data

Record # 47355

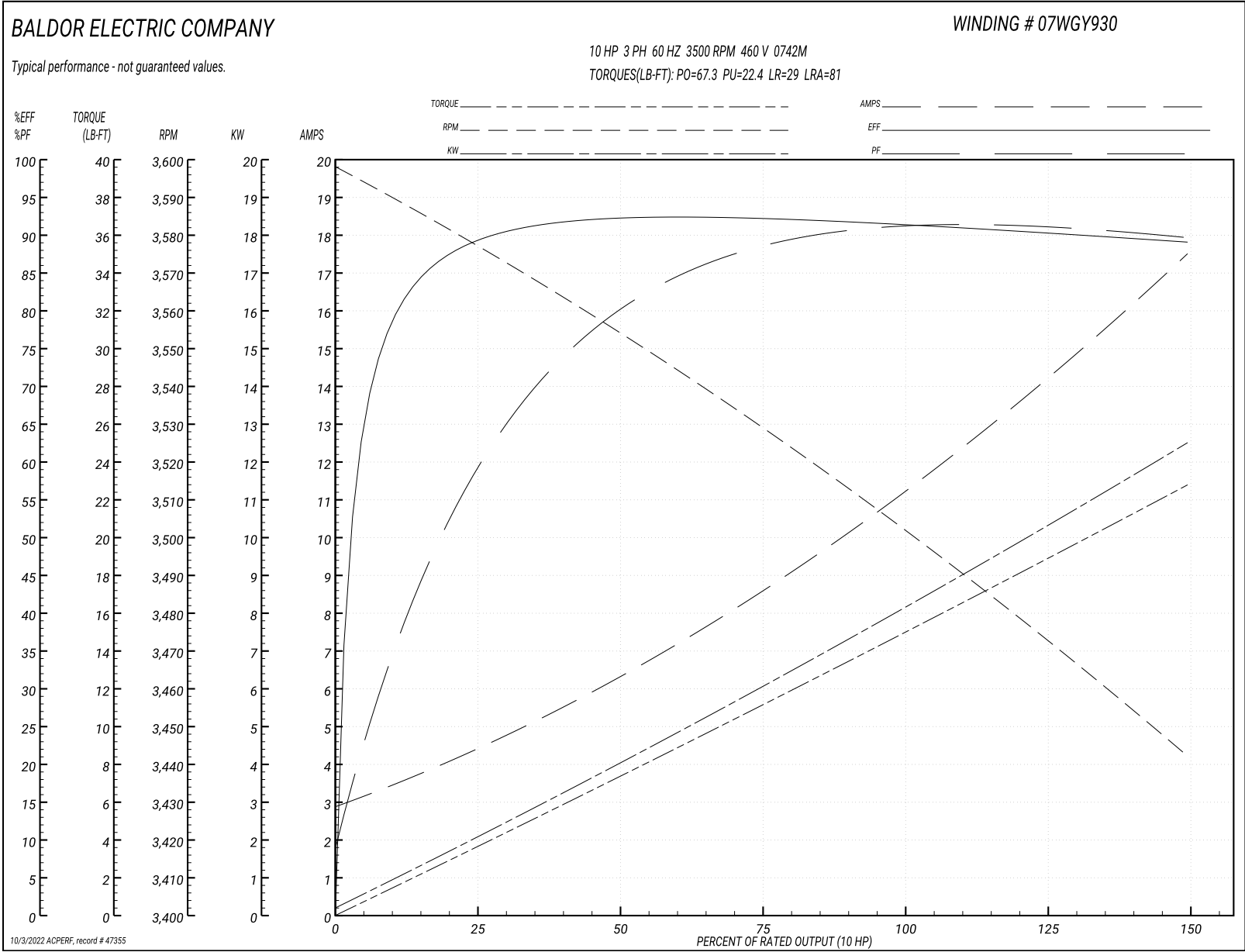
Typical performance - not guaranteed values

Winding: 07WGY930-R013			Type: 0742M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		10	Full Load Torque		14.8 LB-FT			
Volts		460	Start Configuration		direct on line			
Full Load Amps		11.3	Breakdown Torque		67.3 LB-FT			
R.P.M.		3500	Pull-up Torque		22.4 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		29 LB-FT		
NEMA Design Code		B	KVA Code	H	Starting Current		81 A	
Service Factor (S.F.)		1.15	No-load Current		3.11 A			
NEMA Nom. Eff.		91	Power Factor		91	Line-line Res. @ 25°C		0.791 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		50°C		
S.F. Amps				Temp. Rise @ S.F. Load		62°C		
				Locked-rotor Power Factor		30.3		
				Rotor inertia		0.383 LB-FT2		

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	64	81	88	89	91	90	91
Efficiency	89.1	92.2	92.3	91.6	90.3	89.1	90.9
Speed	3576	3554	3530	3504	3474	3442	3486
Line amperes	4.08	6.21	8.61	11.3	14.1	17.4	13

Performance Graph at 460V, 60Hz, 10.0HP Typical performance - Not guaranteed values



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AC Induction Motor Performance Data

Record # 65135

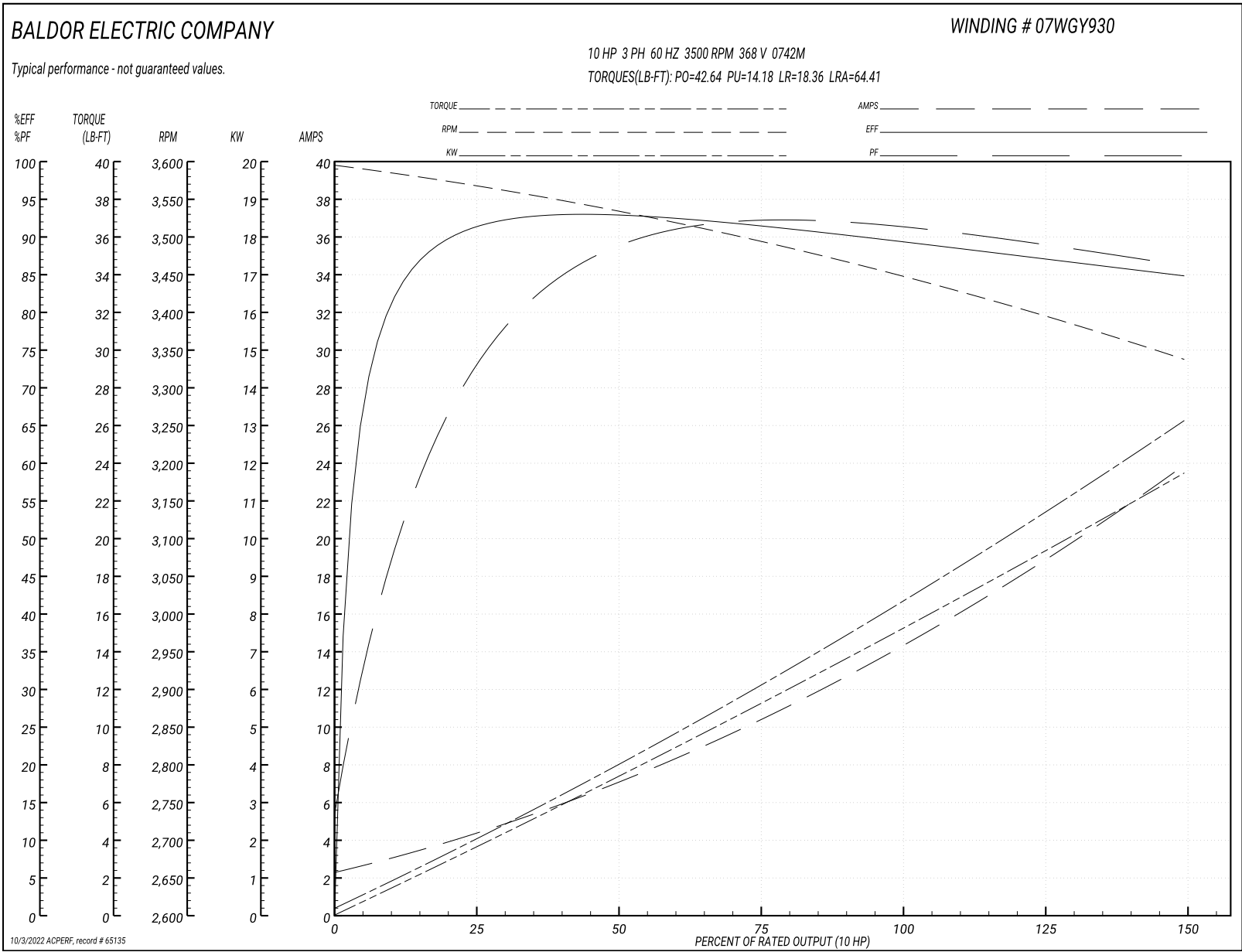
Typical performance - not guaranteed values

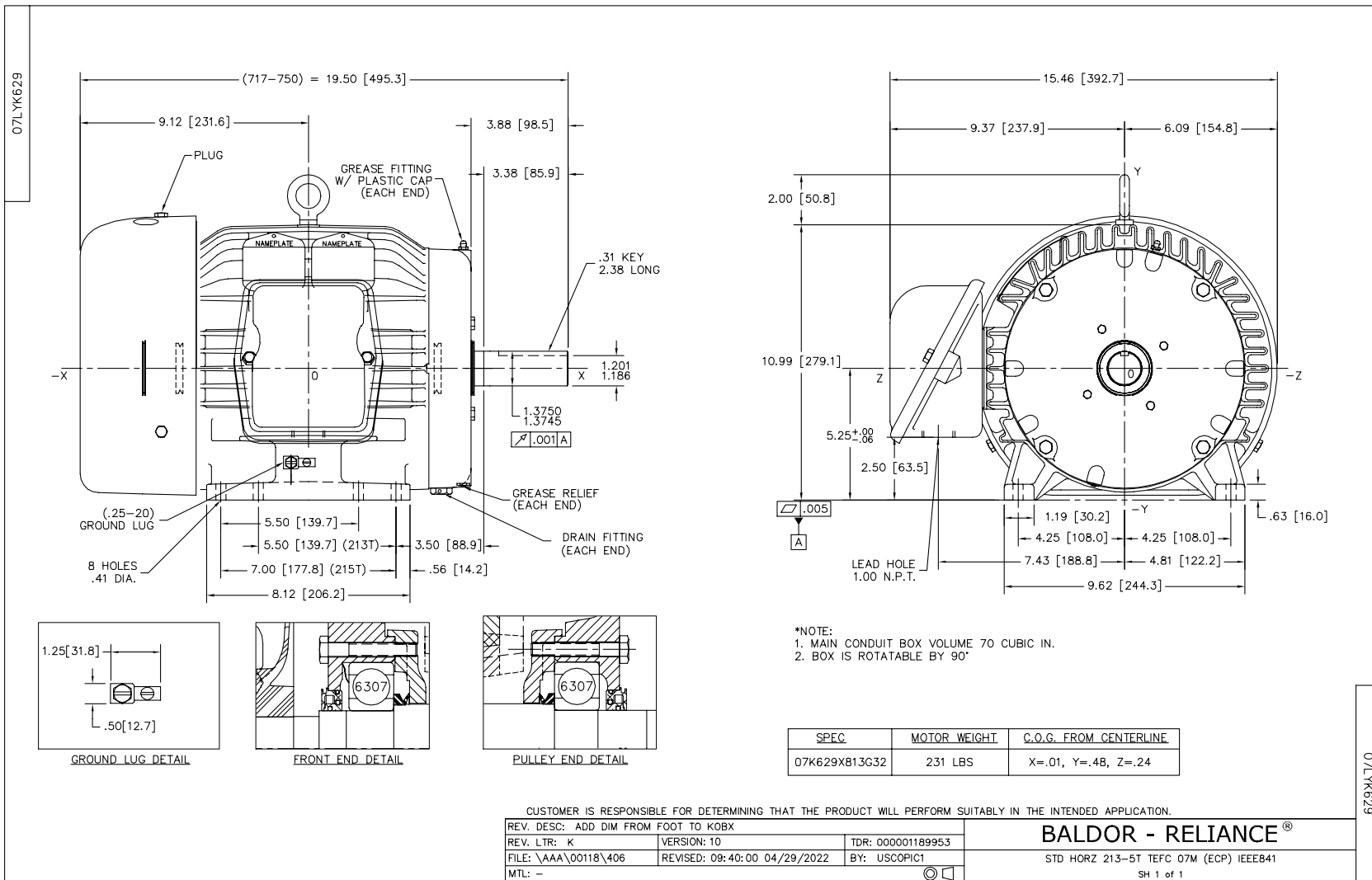
Winding: 07WGY930-R013				Type: 0742M		Enclosure: TEFC	
Nameplate Data				368 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		10		Full Load Torque		15.02 LB-FT	
Volts		460		Start Configuration		direct on line	
Full Load Amps		11.3		Breakdown Torque		42.64 LB-FT	
R.P.M.		3500		Pull-up Torque		14.18 LB-FT	
Hz		60		Phase		3	
NEMA Design Code		B		KVA Code		H	
Service Factor (S.F.)		1.15		No-load Current		2.43 A	
NEMA Nom. Eff.		91		Power Factor		91	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps						Temp. Rise @ S.F. Load	
						Locked-rotor Power Factor	
						Rotor inertia	

Load Characteristics 368 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	79	89	91	90	90	86	90
Efficiency	90.5	92.3	91.4	89.7	87.4	84.6	88.3
Speed	3565	3532	3495	3453	3401	3335	3422
Line amperes	4.09	7.1	10.43	14.25	18.44	23.94	16.8

Performance Graph at 368V, 60Hz, 10.0HP Typical performance - Not guaranteed values





CD0006

TYPICAL WYE-CONNECTED MOTOR

1-BLU

3-ORG

2-WHT

J-BRN

J-BRN

OPTIONAL THERMOSTATS

TYPICAL DELTA-CONNECTED MOTOR

1-BLU

2-WHT

3-ORG

J-BRN

J-BRN

OPTIONAL THERMOSTATS

1

2

3

LINE

NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.

2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.

3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.

4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.

5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: -

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1

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