

# **BALDOR® • RELIANCE**

## **Product Information Packet**

# **ECTM4100T**

**15 AIR OVERHP, 1175RPM, 3PH, 60HZ, 284T, 1046**

Part Detail							
Revision:	F	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	10WGY561	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	10K189	Layout:	10LYK189	Poles:	06	Created Date:	04-22-2016
Base:	RG	Eff. Date:	10-05-2017	Leads:	9#10		

Specs			
Catalog Number:	ECTM4100T	Insulation Class:	F
Enclosure:	TEAO	Inverter Code:	Not Inverter
Frame:	284T	KVA Code:	H
Frame Material:	Iron	Lifting Lugs:	Vertical Lifting Lugs
Output @ Frequency:	15.000 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1200 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 10 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	1046M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	73
	CSA EEV	Product Family:	Super-E Chemical Processing
	CSA	Pulley End Bearing Type:	Sealed Bearing
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)	RoHS Status:	ROHS COMPLIANT
Blower:	None	Shaft Extension Location:	Pulley End

<b>Current @ Voltage:</b>	21.000 A @ 460.0 V	<b>Shaft Ground Indicator:</b>	No Shaft Grounding
	42.000 A @ 208.0 V	<b>Shaft Rotation:</b>	Reversible
	42.000 A @ 230.0 V	<b>Shaft Slinger Indicator:</b>	Shaft Slinger
<b>Design Code:</b>	A	<b>Speed Code:</b>	Single Speed
<b>Drip Cover:</b>	No Drip Cover	<b>Motor Standards:</b>	NEMA
<b>Duty Rating:</b>	CONT	<b>Starting Method:</b>	Direct on line
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Thermal Device - Bearing:</b>	None
<b>Feedback Device:</b>	NO FEEDBACK	<b>Thermal Device - Winding:</b>	None
<b>Front Face Code:</b>	Standard	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Front Shaft Indicator:</b>	None	<b>Winding Thermal 1:</b>	None
<b>Heater Indicator:</b>	No Heater	<b>Winding Thermal 2:</b>	None

Nameplate NP1260E			
CAT.NO.	ECTM4100T		
SPEC.	10K189Y561G1		
HP	15 AIR OVER		
VOLTS	230/460		
AMP	42/21		
RPM	1175		
FRAME	284T	HZ	60
SER.F.	1.15	CODE	H
NEMA-NOM-EFF	91.7	DES	A
RATING	40C AMB-CONT	PF	73
CC		PH	3
DE	6311	CL	F
ENCL	TEAO	ODE	6309
	1900 FPM @ 360CFM	USABLE AT 208V	42
		SN	

**AC Induction Motor Performance Data**

Record # 66702 - Typical performance - not guaranteed values

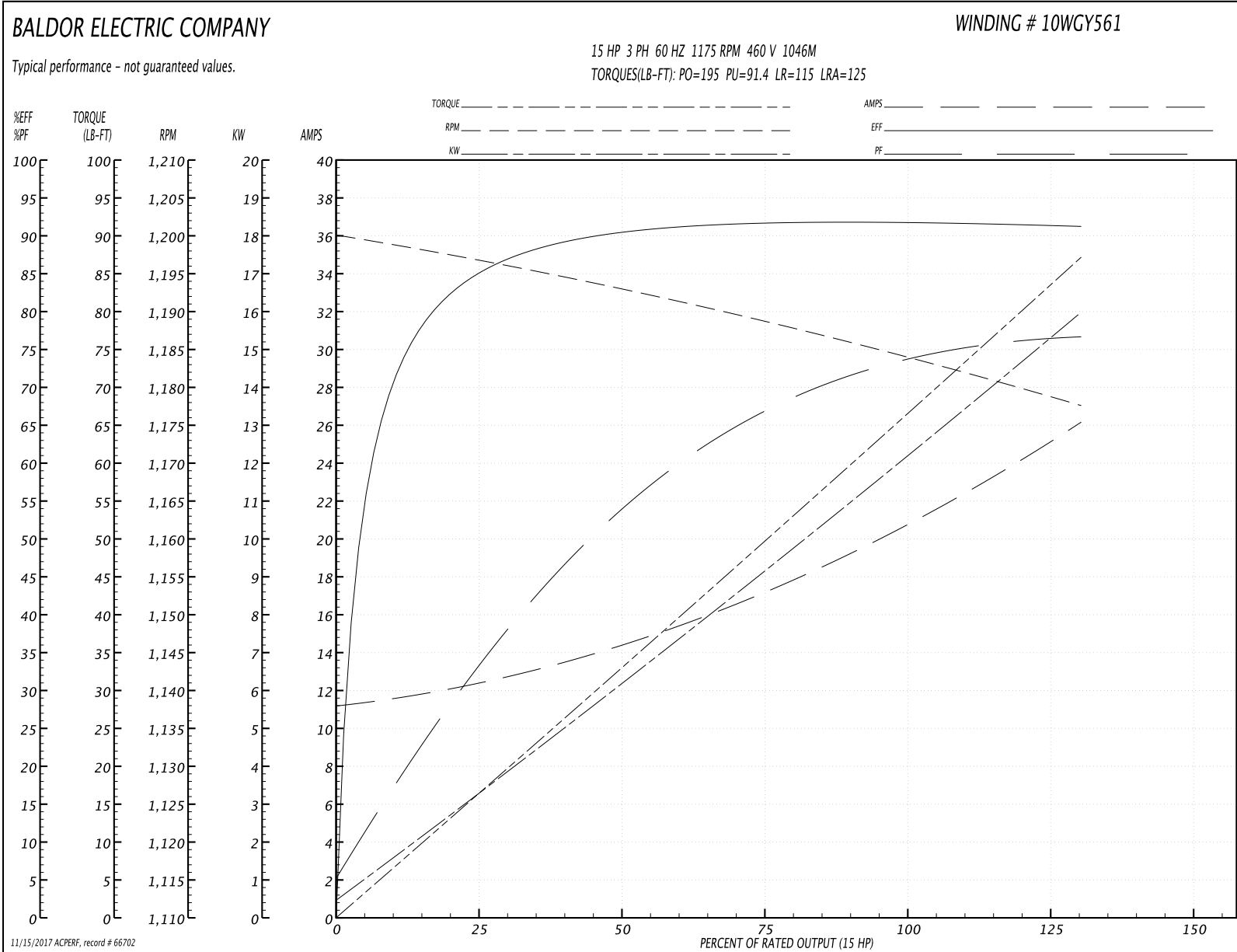
<b>Winding:</b> 10WGY561-R023	<b>Type:</b> 1046M	<b>Enclosure:</b> TEAO
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	15 AIR OVER			Full Load Torque	66.5 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	42/21			Breakdown Torque	195 LB-FT
R.P.M.	1175			Pull-up Torque	91.4 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	115 LB-FT
NEMA Design Code	A	KVA Code	H	Starting Current	125 A
Service Factor (S.F.)	1.15			No-load Current	11.3 A
NEMA Nom. Eff.	91.7	Power Factor	73	Line-line Res. @ 25°C	0.56099 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	49°C
S.F. Amps				Temp. Rise @ S.F. Load	59°C
				Locked-rotor Power Factor	32.9
				Rotor inertia	5.63 LB-FT <sup>2</sup>

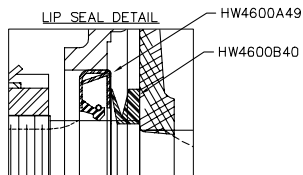
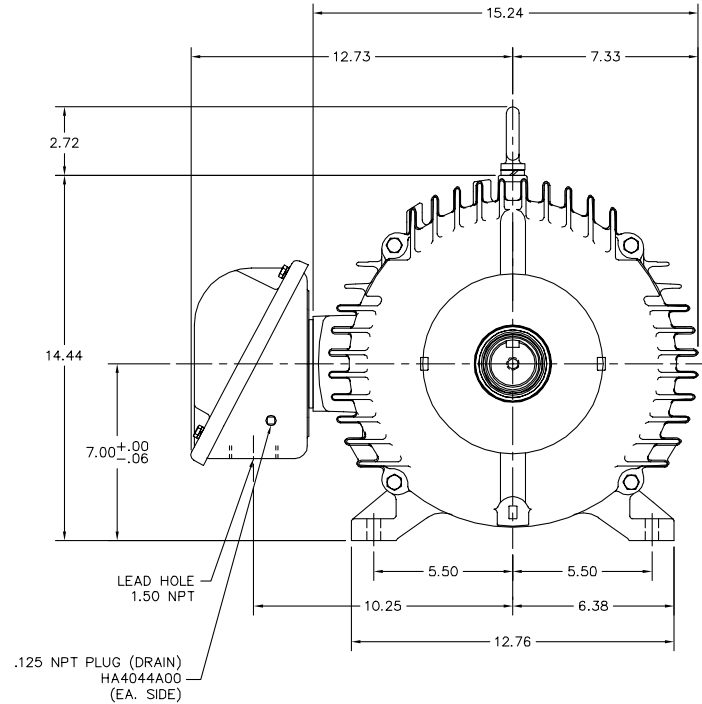
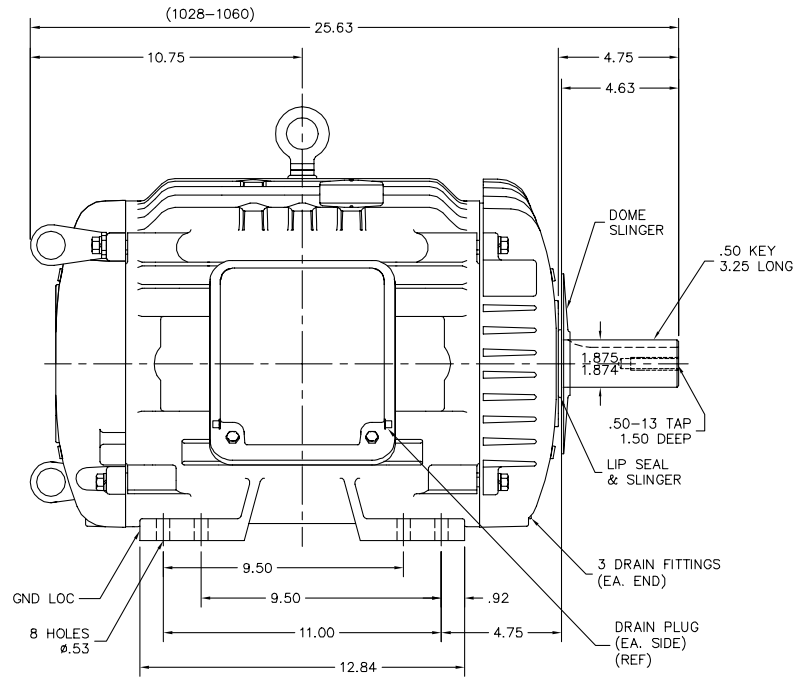
Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	54	66	73	76	77	75
Efficiency	85	90.6	91.8	92	91.5	91.3	91.7
Speed	1197	1193	1188.7	1183.9	1179	1177.5	1181
Line amperes	12.2	14.3	17.3	20.8	25.1	26.1	23.4

Performance Graph at 460V, 60Hz, 15.0HP Typical performance - Not guaranteed values



10LYK189



CUSTOMER ONLY NOTE: FOR VERTICAL SHAFT UP LIFTING, REMOVE EYEBOLT FROM TOP OF MOTOR AND SCREW INTO END OF SHAFT.

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: NEW	VERSION: 00	TDR: 000000936345
REV. LTR: -	REVISED: 08:11:35 08/17/2015	BY: ENKENHG
FILE: \AAA\00220\838		
MTL: -		

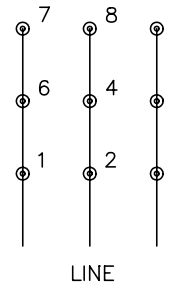
**BALDOR**  
 HOR TEAO 284-6T CP COOLING TOWER W/SLD BRGS,VER LIF, LIP SL  
 SH 1 of 1

68LYK101

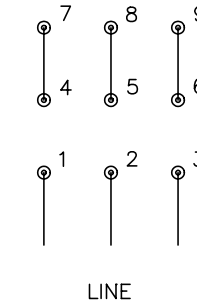
CD0180



LOW VOLTAGE  
(2D)



HIGH VOLTAGE  
(1D)



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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: C BY: JLP

REVISED: 01/21/99 2:28

TDR: 0171435

0810D0

FILE: AAA00005148

MDL: -

MTL: -

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS, DELTA CONNECTION

CD0180