ABB BALDOR RELIANCE

Customer information packet

ECTM4100T-5G

15HP, 1175RPM, 3PH, 60HZ, 284T, 1046M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	284T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	16.000 A @ 575.0 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 Shaft Indicator	Tapped & Key
Heater Indicator	Heater Included, 115 V
High Voltage Full Load Amps	16.0 a
Insulation Class	F

Part Detail

Revision	G
Type	AC
Mech. spec.	10T010
Base	
Status	PRD/A
Elec. spec.	10WGY949
Layout	10LYT010
Eff. date	11-03-2025
CD Diagram	CD0006
Poles	06
Leads	3#12
Proprietary	False
Created date	04-13-2022

Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1046M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	27.57 IN
Power Factor	76
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1175 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

NP1260										
CAT.NO.	ECTM4100T-5G									
SPEC.	10T010Y949G1									
HP	15									
VOLTS	575									
AMP	16									
RPM	1175									
FRAME	284T	**HZ**	60		**PH**	3				
SER.F.	1.15	**CODE**	G	**DES**	A		**CL**	F		
NEMA-NOM-EFF	91.7	**PF**	76							
RATING	40C AMB-CONT									
CC	010A									
DE	6311	**ODE**	6309							
ENCL	TEFC	**SN**								
	INV DUTY 20:1VT									

AC Induction Motor Performance Data
Record # 35011
Typical performance - not guaranteed values

Winding: 10WGY949-R001	**Type:** 1046M	**Enclosure:** TEFC

Nameplate Data			**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)		15	**Full Load Torque**	66.7 LB-FT
Volts		575	**Start Configuration**	direct on line
Full Load Amps		16	**Breakdown Torque**	201 LB-FT
R.P.M.		1175	**Pull-up Torque**	87.8 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	107 LB-FT
NEMA Design Code	A **KVA Code**	G	**Starting Current**	109 A
Service Factor (S.F.)		1.15	**No-load Current**	8.97 A
NEMA Nom. Eff.	91.7 **Power Factor**	76	**Line-line Res. @ 25ºC**	0.868 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	43°C
S.F. Amps			**Temp. Rise @ S.F. Load**	52°C
			Locked-rotor Power Factor	33.5
			Rotor inertia	5.63 LB-FT2

Load Characteristics 575 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	35	55	68	75	78	80	78
Efficiency	83.5	89.7	91.3	91.6	91.3	90.6	91.6
Speed	1196	1192	1189	1185	1180	1176	1180
Line amperes	9.64	11.25	13.58	16.41	19.7	23.25	18.1

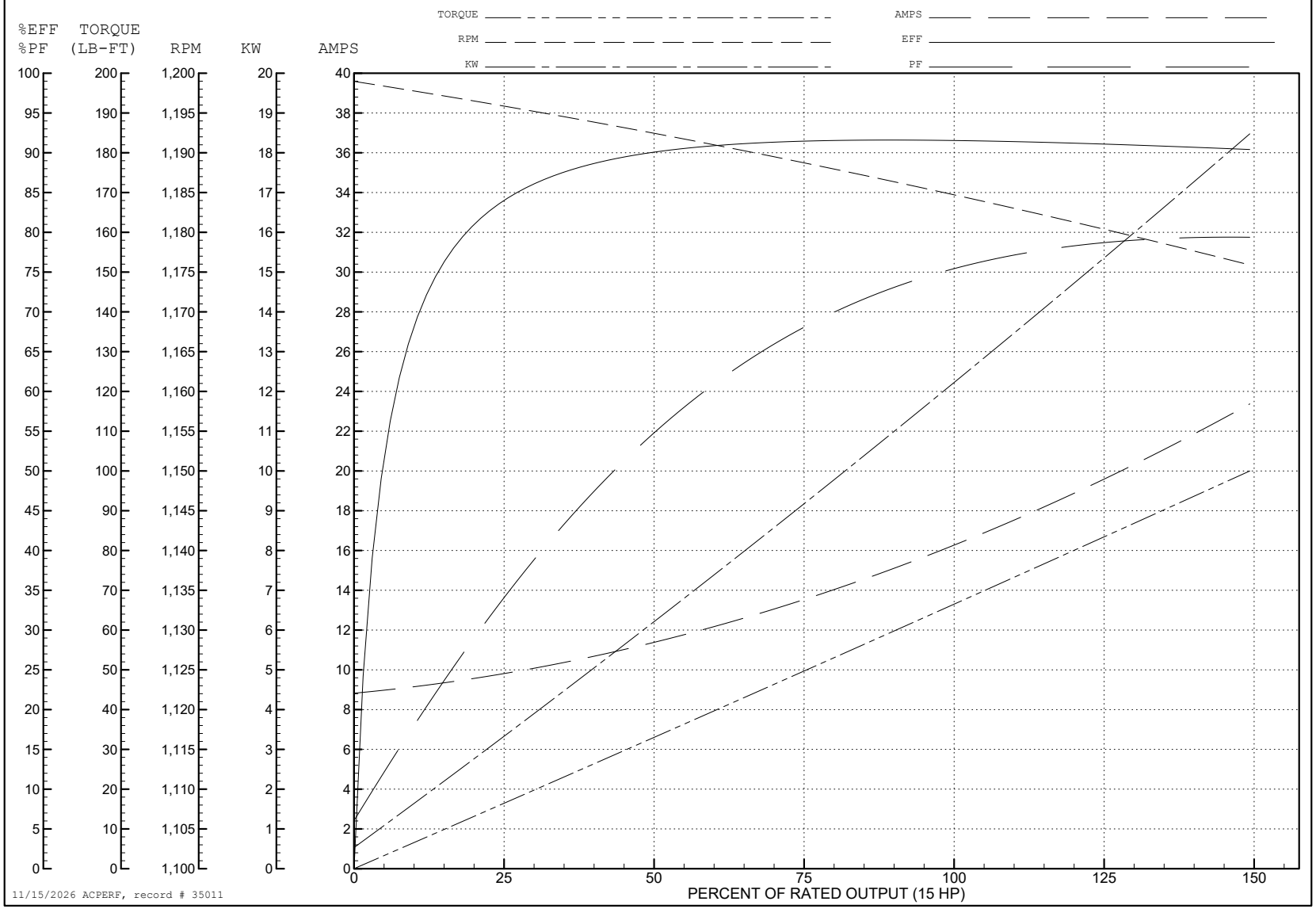
ABB Motors and Mechanical Inc.

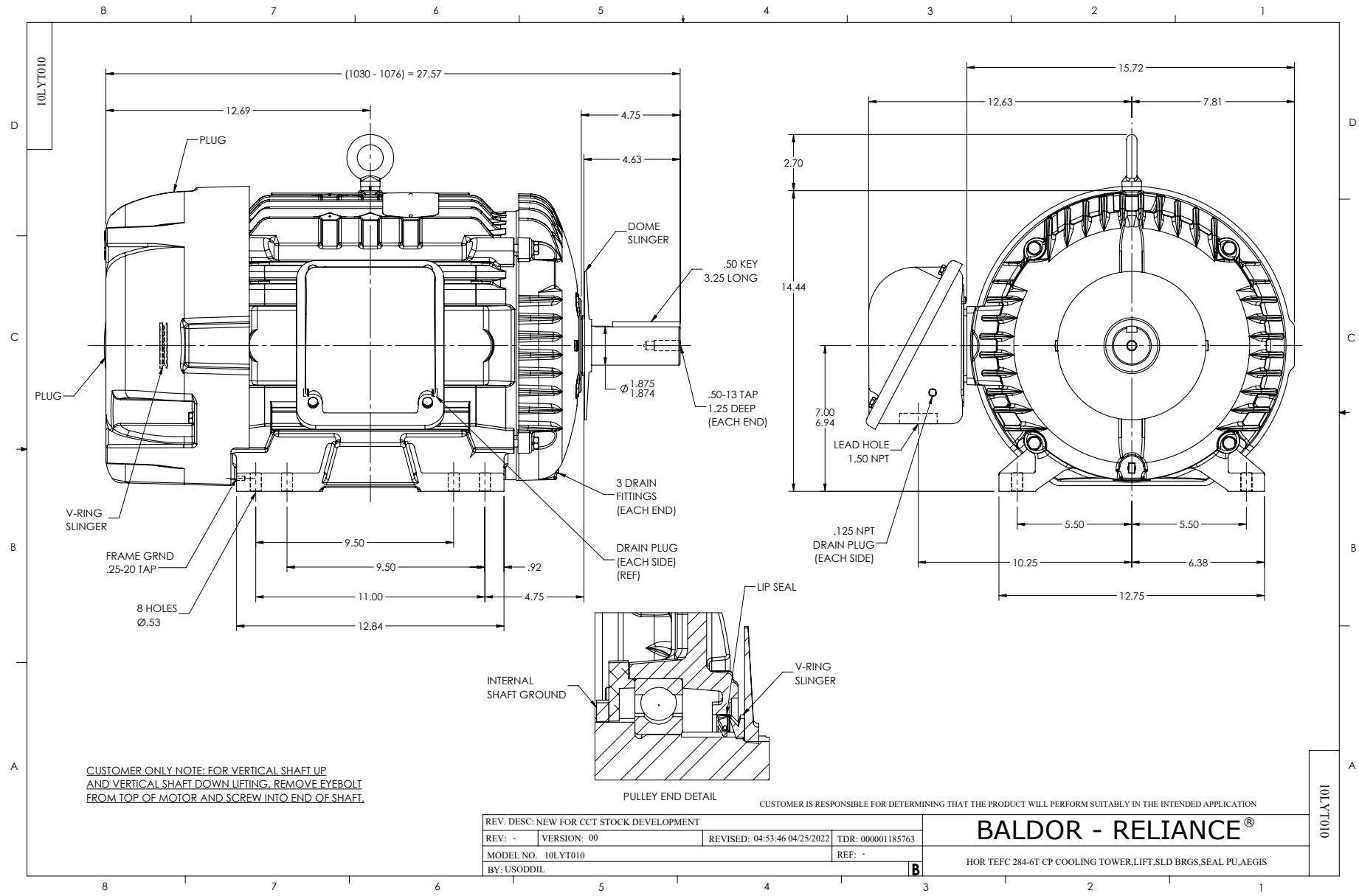
WINDING # 10WGY949

15 HP 3 PH 60 HZ 1175 RPM 575 V 1046M

Typical performance - not guaranteed values.

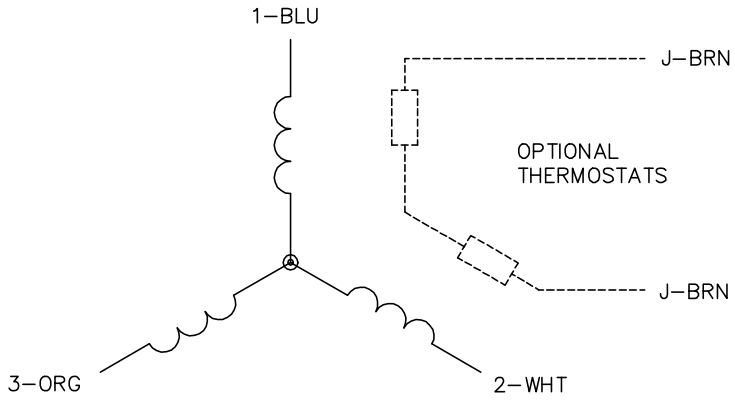
TORQUES(LB-FT): PO=201 PU=87.8 LR=107 LRA=109

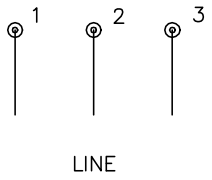



10LYT010
(1030 - 1076) = 27.57
12.69
4.75
4.63
PLUG
DOME SLINGER
.50 KEY 3.25 LONG
PLUG
Ø 1.875 1.874
.50-13 TAP 1.25 DEEP (EACH END)
3 DRAIN FITTINGS (EACH END)
V-RING SLINGER
FRAME GRND .25-20 TAP
DRAIN PLUG (EACH SIDE) (REF)
9.50
9.50
.92
11.00
4.75
8 HOLES Ø.53
12.84
15.72
12.63
7.81
2.70
14.44
7.00 6.94
LEAD HOLE 1.50 NPT
.125 NPT DRAIN PLUG (EACH SIDE)
5.50
5.50
10.25
6.38
12.75
LIP SEAL
V-RING SLINGER
INTERNAL SHAFT GROUND
PULLEY END DETAIL
CUSTOMER ONLY NOTE: FOR VERTICAL SHAFT UP AND VERTICAL SHAFT DOWN LIFTING, REMOVE EYEBOLT FROM TOP OF MOTOR AND SCREW INTO END OF SHAFT.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NEW FOR CCT STOCK DEVELOPMENT
REV: - VERSION: 00 REVISED: 04:53:46 04/25/2022 TDR: 000001185763
MODEL NO. 10LYT010 REF: -
BY: USODDIL B
BALDOR - RELIANCE®
HOR TEFC 284-6T CP COOLING TOWER,LIFT,SLD BRGS,SEAL PU,AEGIS
10LYT010

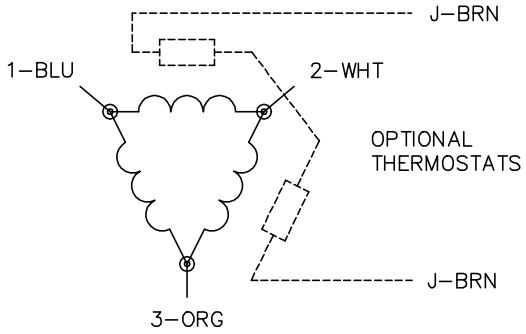
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1