

BALDOR® • RELIANCE 

Product Information Packet

ECR9054T

5HP,1750RPM,3PH,60HZ,184T,0640M,TEFC,F1

Part Detail							
Revision:	E	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	06WGY441	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	06K520	Layout:	06LYK520	Poles:	04	Created Date:	01-13-2015
Base:	RG	Eff. Date:	03-13-2020	Leads:	9#16		

Specs			
Catalog Number:	ECR9054T	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	184T	Inverter Code:	Inverter Duty
Frame Material:	Iron	KVA Code:	J
Output @ Frequency:	5.000 HP @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 16 AWG
	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
XP Class and Group:	None	Motor Lead Termination:	Flying Leads
XP Division:	Not Applicable	Motor Type:	0640M
Agency Approvals:	UR	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	74
	CCSA US	Product Family:	Super-E Chemical Processing
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	Standard
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End

Constant Torque Speed Range:	6	Shaft Ground Indicator:	No Shaft Grounding
Current @ Voltage:	14.200 A @ 230.0 V	Shaft Rotation:	Reversible
	7.100 A @ 460.0 V	Shaft Slinger Indicator:	Shaft Slinger
Design Code:	A	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
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP3294E											
CAT NO	ECR9054T										
SPEC.	06K520Y441G1						ENCL	TEFC			
FRAME	184T			HP	5						
VOLTS	230/460										
FLA	14.2/7.1				I.P.	55					
RPM	1750			RPM MAX	2700						
HZ	60			PH	3		CLASS	F			
SER.F.	1.25			DES	A		CC	010A			
NEMA-NOM-EFF	89.5										
RATING	40C AMB-CONT										
DE BRG	6306			ODE BRG	6206						
GREASE	POLYREX EM										
INV.TYPE	PWM			C HP FR	60		C HP TO	90			
CT HZ FROM	6			CT HZ TO	60		VT HZ FROM	6		VT HZ TO	60
SER.NO	SFA 16.8/8.4										

Parts List		
Part Number	Description	Quantity
SA293404	SA 06K520Y441G1	1.000 EA
RA279501	RA 06K520Y441G1	1.000 EA
36FN3000C01SP	EXFN, PLASTIC, 5.25 OD, .912 ID	1.000 EA
HW3201A05	3/8-16 EYEBOLT	1.000 EA
06CB1000A02G	CONDUIT BOX, MACH GRAY	1.000 EA
RM1016	LEAD SEPARATOR GASKET - 305/306 C.P.MOTO	1.000 EA
51XW2520A12	SCREW, HEX SER SLT HD, ZN, 1/4-20 X .75	2.000 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
10XN2520S06	1/4 20X3/8 HX HD CAP S.S.	1.000 EA
36FE1100B72G	FREP ASSEMBLY FOR ROUTING PURPOSES	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 EA
36EP1118A08G	PUEP ENCL 207/306 BRG W/GRSR, RELIEF,	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HA3101A53	THRUBOLT 1/4-20 X 10.50	4.000 EA
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 EA
06FH1004A01G	FAN HOUSING MACH, W/GRAY EPOXY	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
10XN2520A24	1/4-20X 1 1/2 HEX HD X	3.000 EA
WD4100A02	DP-1000 HEYCO PLUG OR 62MP1000 MICRO PL	1.000 EA
06CB1502G	LIPPED CONDUIT BOX LID CAST, GRAY EPOXY	1.000 EA
06GS1003	GASKET, KOBX LID, 1/8" THICK BLACK NEOPR	1.000 EA
10XN2520A12	1/4-20 X 3/4 HEX HEAD CAP	2.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 EA
HW4600B36SP	V-RING SLINGER 1.188 X 1.690 X .24 VITON	1.000 EA
HW4600B36SP	V-RING SLINGER 1.188 X 1.690 X .24 VITON	1.000 EA
HW2501E16	KEY, 1/4 SQ X 1.750	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
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
MG1025G96	WILKOFASST SG, 779.7048, MOUSE GRAY #7048	0.028 GA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP3294E	SS CRUSHER DUTY INV UL CSA-C US EEV	1.000 EA
36PA1001	PKG GRP, PRINT PK1017A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA

AC Induction Motor Performance Data

Record # 49023

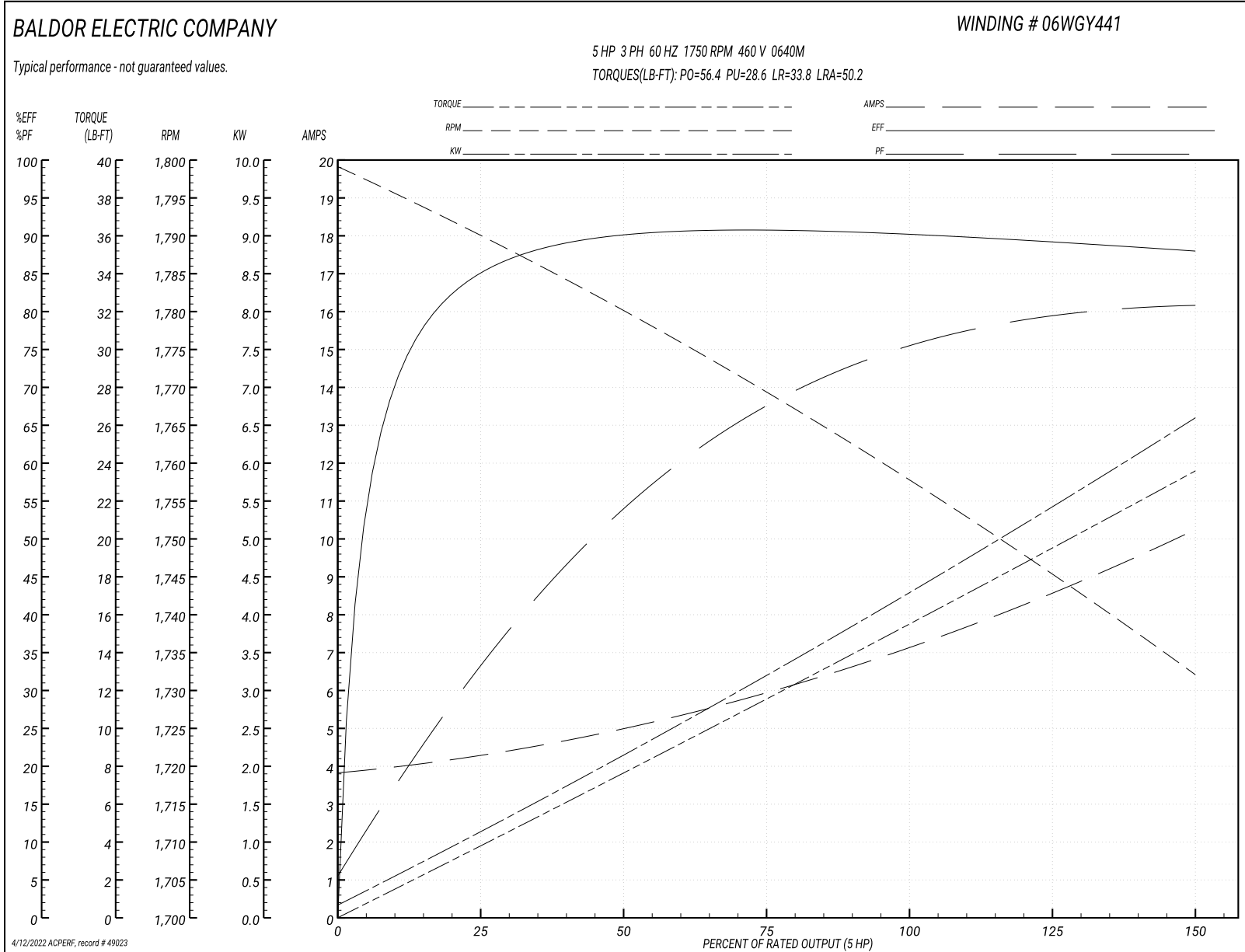
Typical performance - not guaranteed values

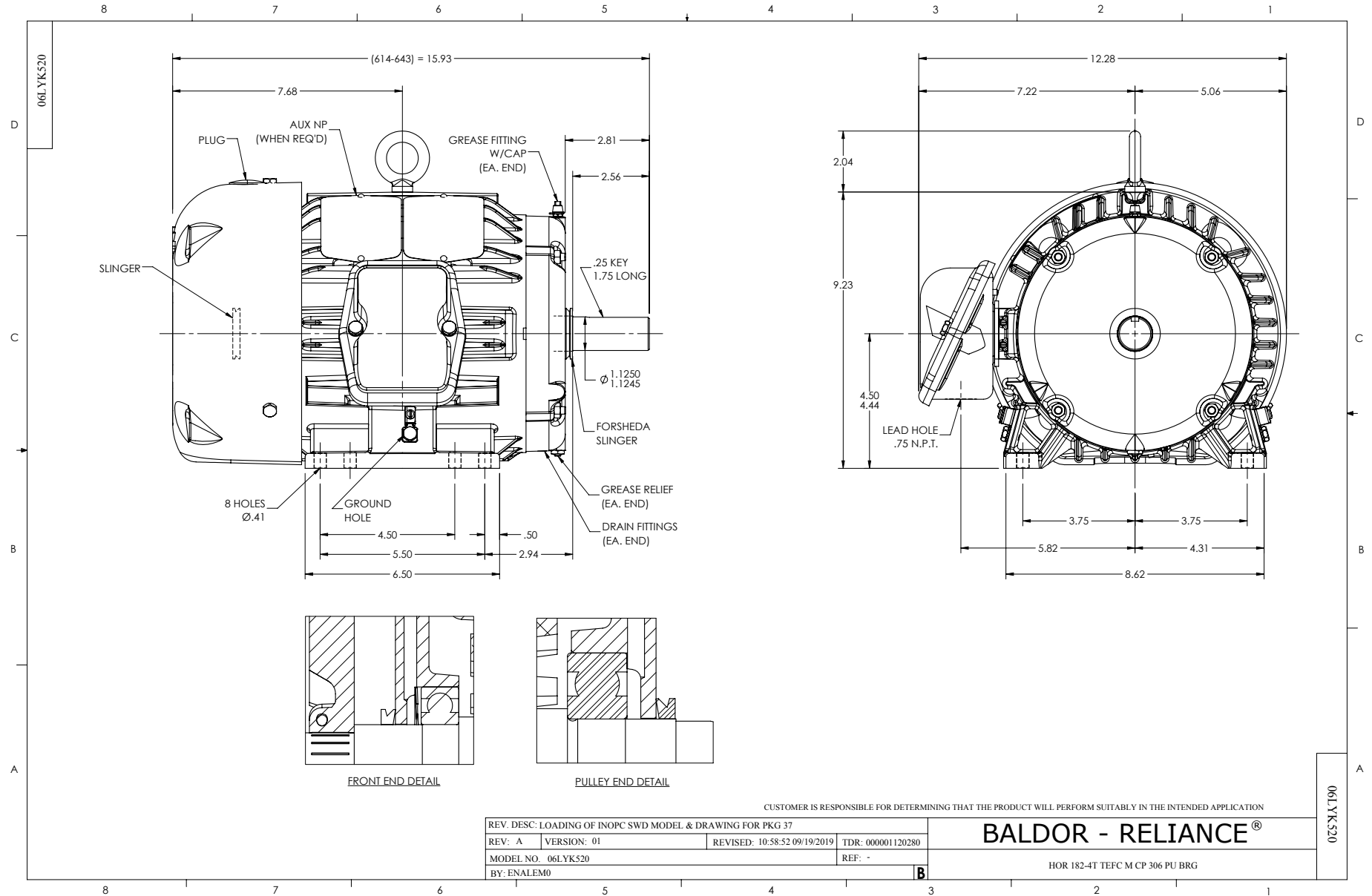
Winding: 06WGY441-R001		Type: 0640M	Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	5	Full Load Torque	15 LB-FT	
Volts	230/460	Start Configuration	direct on line	
Full Load Amps	14.2/7.1	Breakdown Torque	56.4 LB-FT	
R.P.M.	1750	Pull-up Torque	28.6 LB-FT	
Hz	60 Phase	Locked-rotor Torque	33.8 LB-FT	
NEMA Design Code	A KVA Code	Starting Current	50.2 A	
Service Factor (S.F.)	1.25	No-load Current	3.89 A	
NEMA Nom. Eff.	89.5 Power Factor	Line-line Res. @ 25°C	2.39 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	55°C	
S.F. Amps	16.8/8.4	Temp. Rise @ S.F. Load	74°C	
		Locked-rotor Power Factor	41.2	
		Rotor inertia	0.372 LB-FT ²	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	54	66	74	79	81	79
Efficiency	84.3	89.9	91	90.5	89.5	88	89.5
Speed	1790	1781	1770	1759	1748	1732	1748
Line amperes	4.24	4.87	5.86	7.05	8.33	10.2	8.33

Performance Graph at 460V, 60Hz, 5.0HP Typical performance - Not guaranteed values





CD0005



LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
90000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005