ABB BALDOR RELIANCE

Customer information packet

18T171X745

150HP, 1140RPM, 3PH, 60HZ, 447T, 18180M, TEFC
Class -
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	447T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Output @ Frequency	150.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	796.0 V @ 60 HZ
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	102.000 A @ 796.0 V
	178.000 A @ 460.0 V
Design Code	D
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	102.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	No Lifting Lugs

Part Detail

Revision	N
Type	AC
Mech. spec.	18T171
Base	
Status	NLA/A
Elec. spec.	18WGX745
Layout	18LYT171
Eff. date	01-16-2012
CD Diagram	CD0022
Poles	06
Leads	6#2 ML3700A02
Proprietary	False
Created date	01-01-0001

Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 2 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	18180M
Mounting Arrangement	F2
Number of Poles	6
Overall Length	52.68 IN
Power Factor	87
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1140 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor

Nameplate

127X0022									
CAT.NO.			**SPEC.**	18T171X745					
HP	150	**RPM**	1140		**FRAME**	447T			
HZ	60	**SER.F.**	1.15						
VOLTS	460/796		**AMPS**	178/102		**PHASE**	3		
ENCL	TEFC	**TYPE**	P						
FL EFF	91		**FL PF**	87		**CL**	F		
T RISE	80C	**MX AMB**	40						
DESIGN	D	**CODE**	H	**DUTY**	CONT				
DE BRG	6319		**ODE BRG**	6314		**GREASE**	POLYREX EM		
WEIGHT	2812	**S/N**					**MTG**	F2	
	T'STATS ARE 155C(NC)								

Accessories

Part number	Description	Multiplier
18-1302	C-FACE KIT FOR T CONVERTS T TO TC	

AC Induction Motor Performance Data
Record # 16714
Typical performance - not guaranteed values

Winding: 18WGX745-R001	**Type:** 18180M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			150	**Full Load Torque**	687 LB-FT
Volts			460/796	**Start Configuration**	direct on line
Full Load Amps			178/102	**Breakdown Torque**	2392 LB-FT
R.P.M.			1140	**Pull-up Torque**	1477 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	1846 LB-FT
NEMA Design Code	D	**KVA Code**	H	**Starting Current**	1300 A
Service Factor (S.F.)			1.15	**No-load Current**	55 A
NEMA Nom. Eff.	91	**Power Factor**	87	**Line-line Res. @ 25ºC**	0.0248 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	75°C
S.F. Amps				**Temp. Rise @ S.F. Load**	86°C

Load Characteristics 460 V, 60 Hz, 150 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	59	80	85	87	87	85	87
Efficiency	86.7	91.4	91.3	91	90.1	88.7	90.5
Speed	1185	1171	1154	1139	1121	1100	1150
Line amperes	86	117	147	178	209	239.5	196

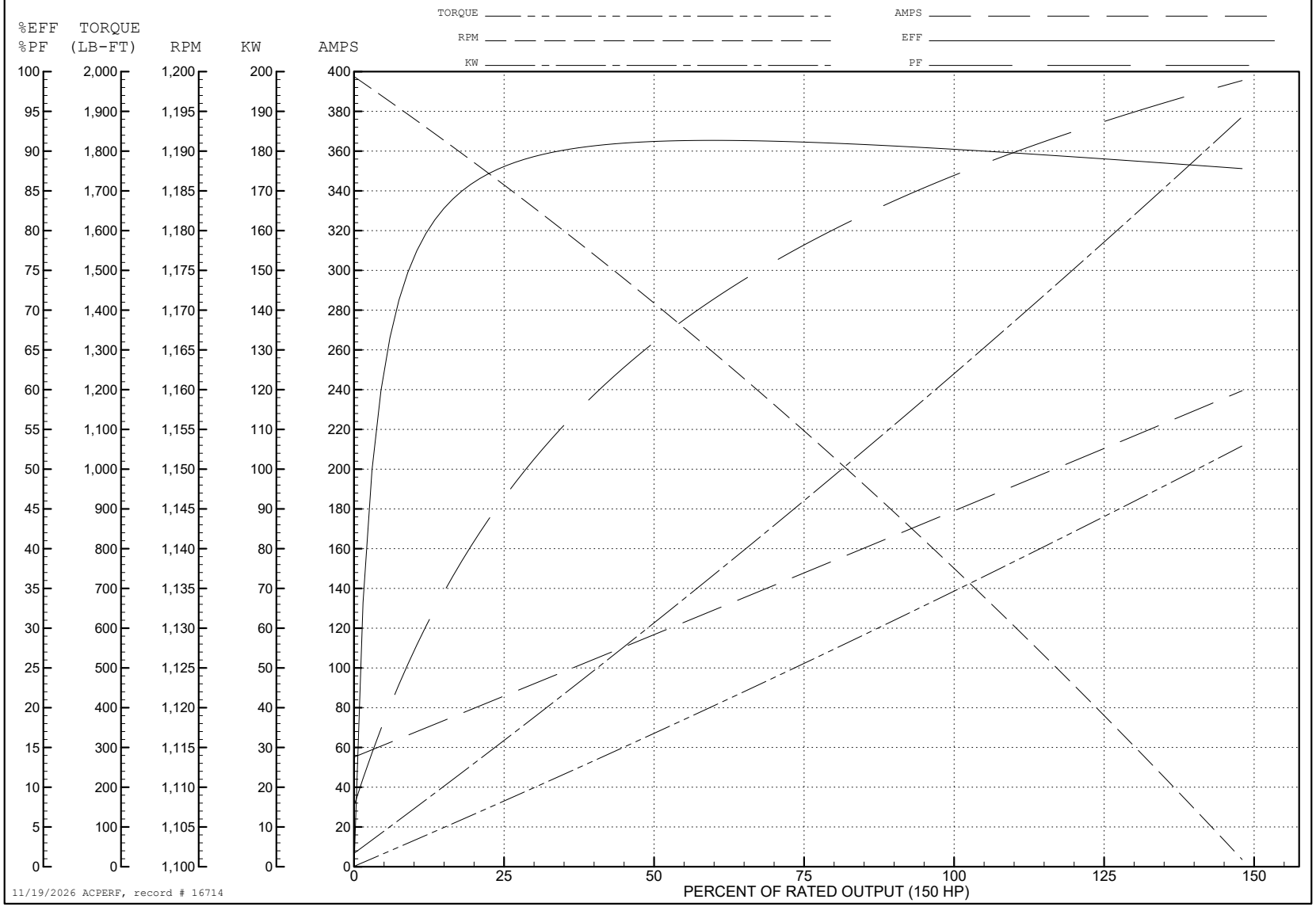
ABB Motors and Mechanical Inc.

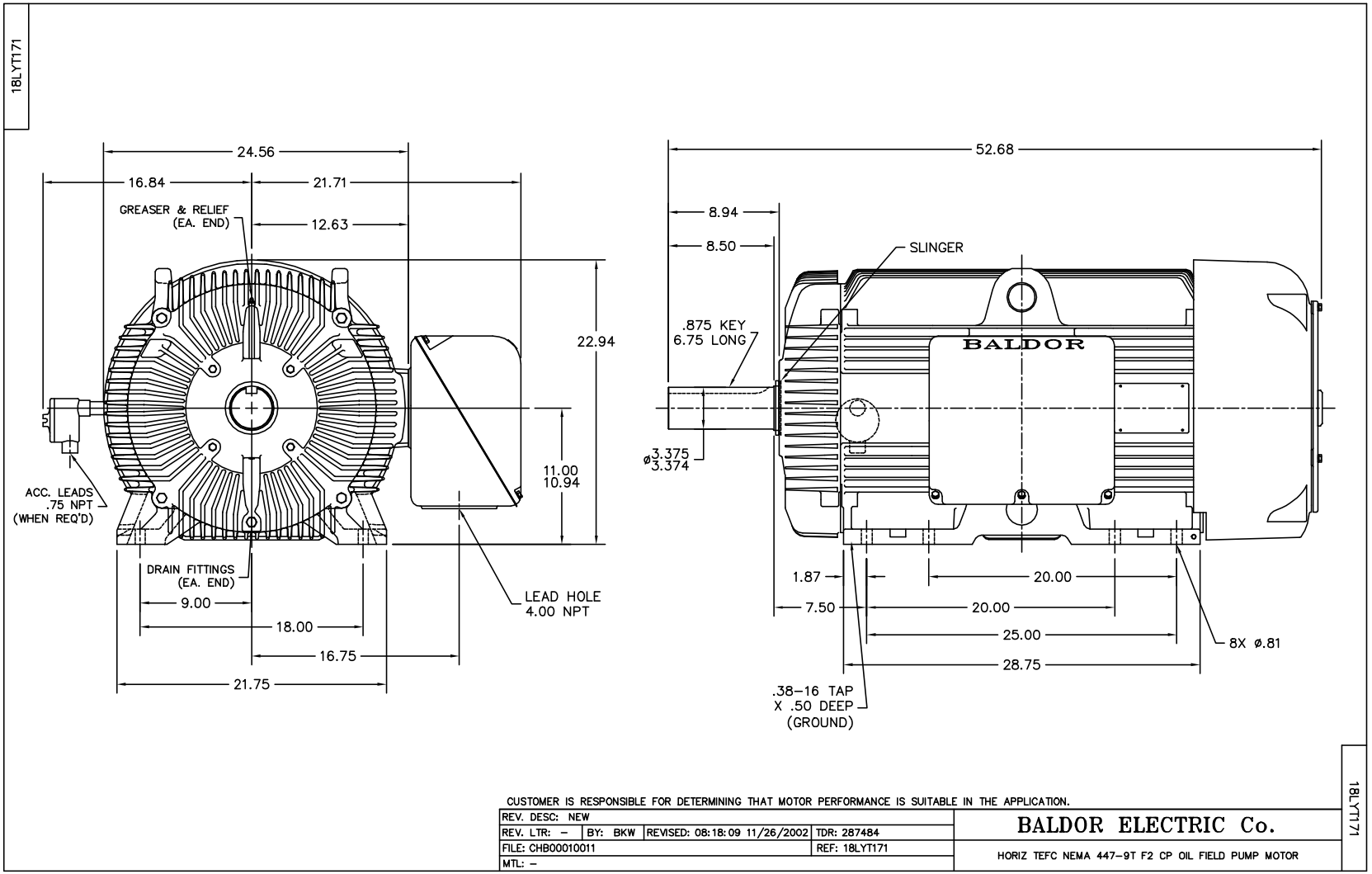
WINDING # 18WGX745

150 HP 3 PH 60 HZ 1140 RPM 460 V 18180M

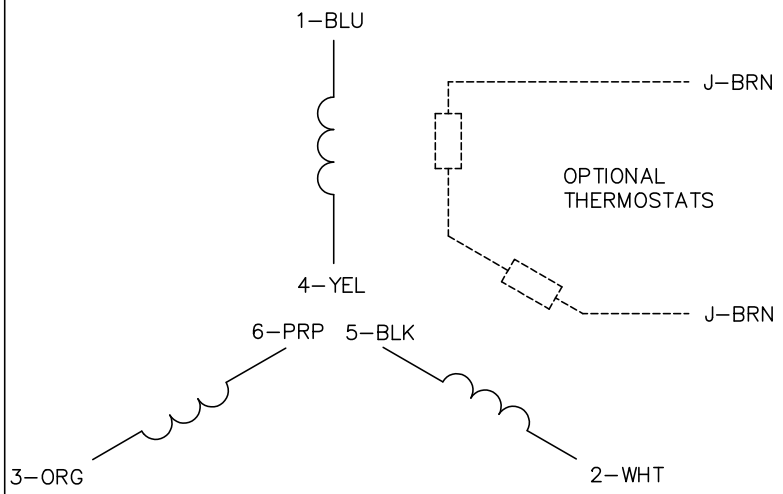
Typical performance - not guaranteed values.

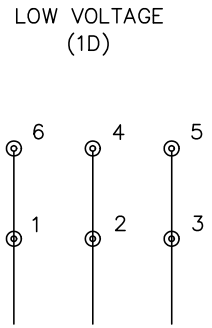
TORQUES(LB-FT): PO=2392 PU=1477 LR=1846 LRA=1300

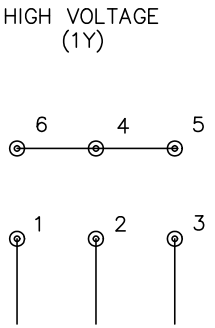



18LYT171
24.56
16.84
21.71
GREASER & RELIEF (EA. END)
12.63
22.94
11.00
10.94
ACC. LEADS .75 NPT (WHEN REQ'D)
DRAIN FITTINGS (EA. END)
9.00
18.00
16.75
21.75
LEAD HOLE 4.00 NPT
52.68
8.94
8.50
SLINGER
.875 KEY 6.75 LONG
BALDOR
ø3.375 3.374
1.87
20.00
7.50
20.00
25.00
28.75
8X ø.81
.38–16 TAP X .50 DEEP (GROUND)
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.
REV. DESC: NEW
REV. LTR: – BY: BKW REVISED: 08:18:09 11/26/2002 TDR: 287484
FILE: CHB00010011 REF: 18LYT171
MTL: –
BALDOR ELECTRIC Co.
HORIZ TEFC NEMA 447–9T F2 CP OIL FIELD PUMP MOTOR
18LYT171

CD0022







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			BALDOR ELECTRIC Co.
REV. LTR: F	BY: JLP	REVISED: 01/21/99 3:54	TDR: 0171435
CD0022		FILE: AAA00005144	MDL: –
		MTL: –	3PH, DV, 6 LEADS, DELTA/WYE CONNECTION

CD0022