ABB BALDOR RELIANCE

Customer information packet

FPM2555TS-5

100HP, 1775RPM, 3PH, 60HZ, 404TS, 4462M, OPSB

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Specifications

Enclosure	OPSB
Frame	404TS
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV
	UL
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	93.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
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	93.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	F
Lifting Lugs	Standard Lifting Lugs

Part Detail

Revision	K
Type	AC
Mech. spec.	44E020
Base	
Status	PRD/A
Elec. spec.	44WGW374
Layout	44LYE020
Eff. date	03-11-2026
CD Diagram	CD0382
Poles	04
Leads	6#6
Proprietary	False
Created date	07-20-2016

Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4462M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	31.85 IN
Power Factor	85
Product Family	Fire Pump Motor
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1775 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3454L												
CAT.NO.	FPM2555TS-5			**CUST P/N**				**I.P.**	23			
SPEC.	44E020W374H2			**SER.NO.**				**FRAME**	404TS			
HZ	60	**HP**	100	**RPM**	1775	**HZ**		**HP**		**RPM**		
VOLTS	575			**CODE**	F	**VOLTS**				**CODE**		
AMPS	93			**DES**	B	**AMPS**				**DES**		
EFF	94.1	**SER.F.**	1.15	**PF**	85	**EFF**		**SER.F.**			**PF**	
RATING	40C AMB-CONT			**DE BRG**	6313			**GREASE**	POLYREX EM			
BLANK				**ODE BRG**	6312			**MTR. WT.**	648			
				CLASS	F	**PH**	3					
				ENCL	OPSB	**CC**	010A					
HTR-VOLTS		**HTR-AMPS**		**HTR-WATTS**								

AC Induction Motor Performance Data
Record # 58316
Typical performance - not guaranteed values

Winding: 44WGW374-R001	**Type:** 4462M	**Enclosure:** OPSB

Nameplate Data			
Rated Output (HP)			100
Volts			575
Full Load Amps			93
R.P.M.			1775
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	F
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	94.1	**Power Factor**	85
Rating - Duty			40C AMB-CONT
S.F. Amps			

575 V, 60 Hz: Single Voltage Motor	
Full Load Torque	295 LB-FT
Start Configuration	direct on line
Breakdown Torque	774 LB-FT
Pull-up Torque	308 LB-FT
Locked-rotor Torque	437 LB-FT
Starting Current	540 A
No-load Current	34.3 A
Line-line Res. @ 25ºC	0.0894 Ω
Temp. Rise @ Rated Load	52°C
Temp. Rise @ S.F. Load	62°C
Locked-rotor Power Factor	25.1
Rotor inertia	11.7 LB-FT2

Load Characteristics 575 V, 60 Hz, 100 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	52	73	82	85	85	84	85
Efficiency	90.3	93.6	94.4	94.3	93.9	92.9	94.1
Speed	1794	1789	1783	1777	1771	1763	1773
Line amperes	40.3	54.6	72.9	93.4	117	142	108

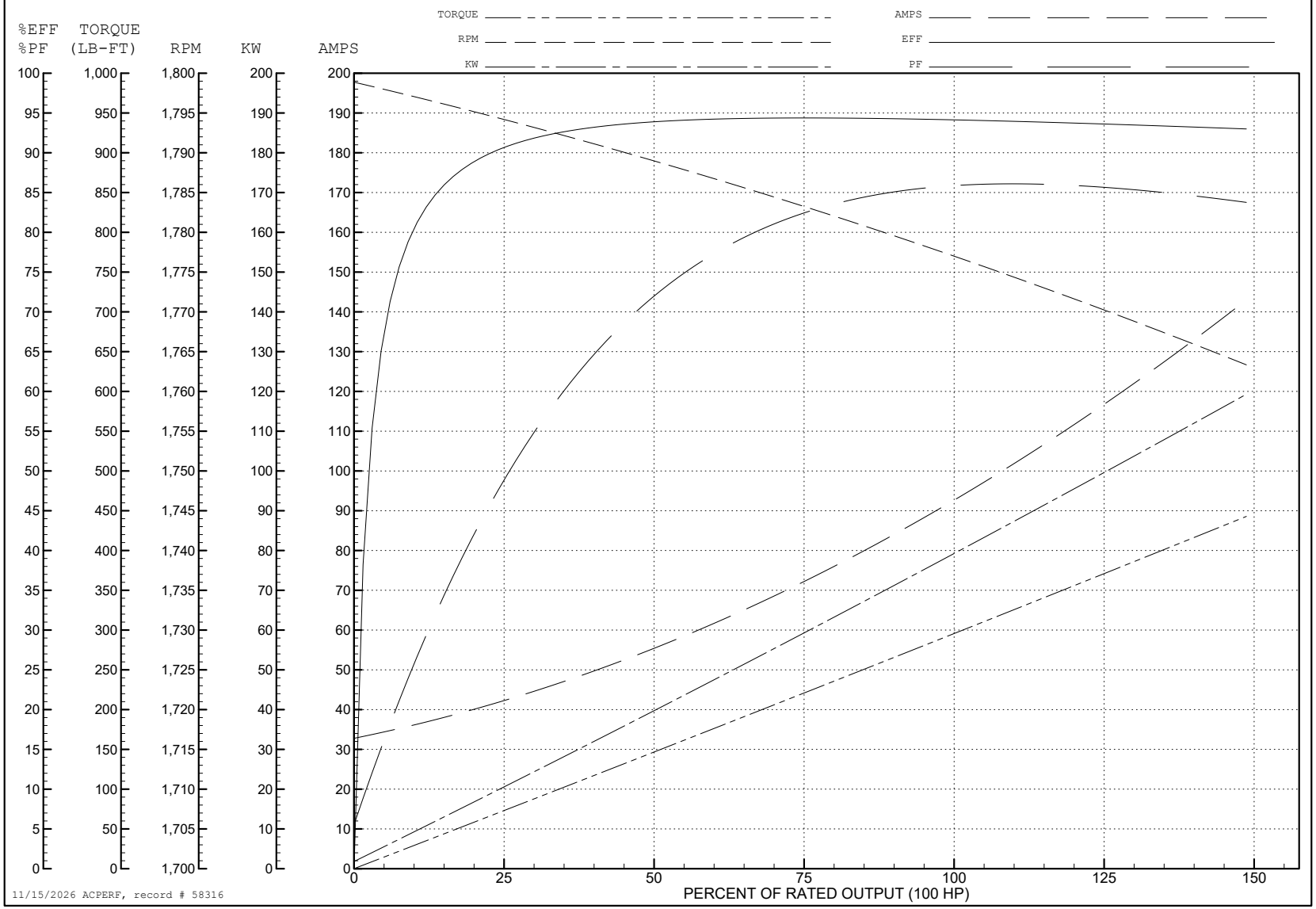
ABB Motors and Mechanical Inc.

WINDING # 44WGW374

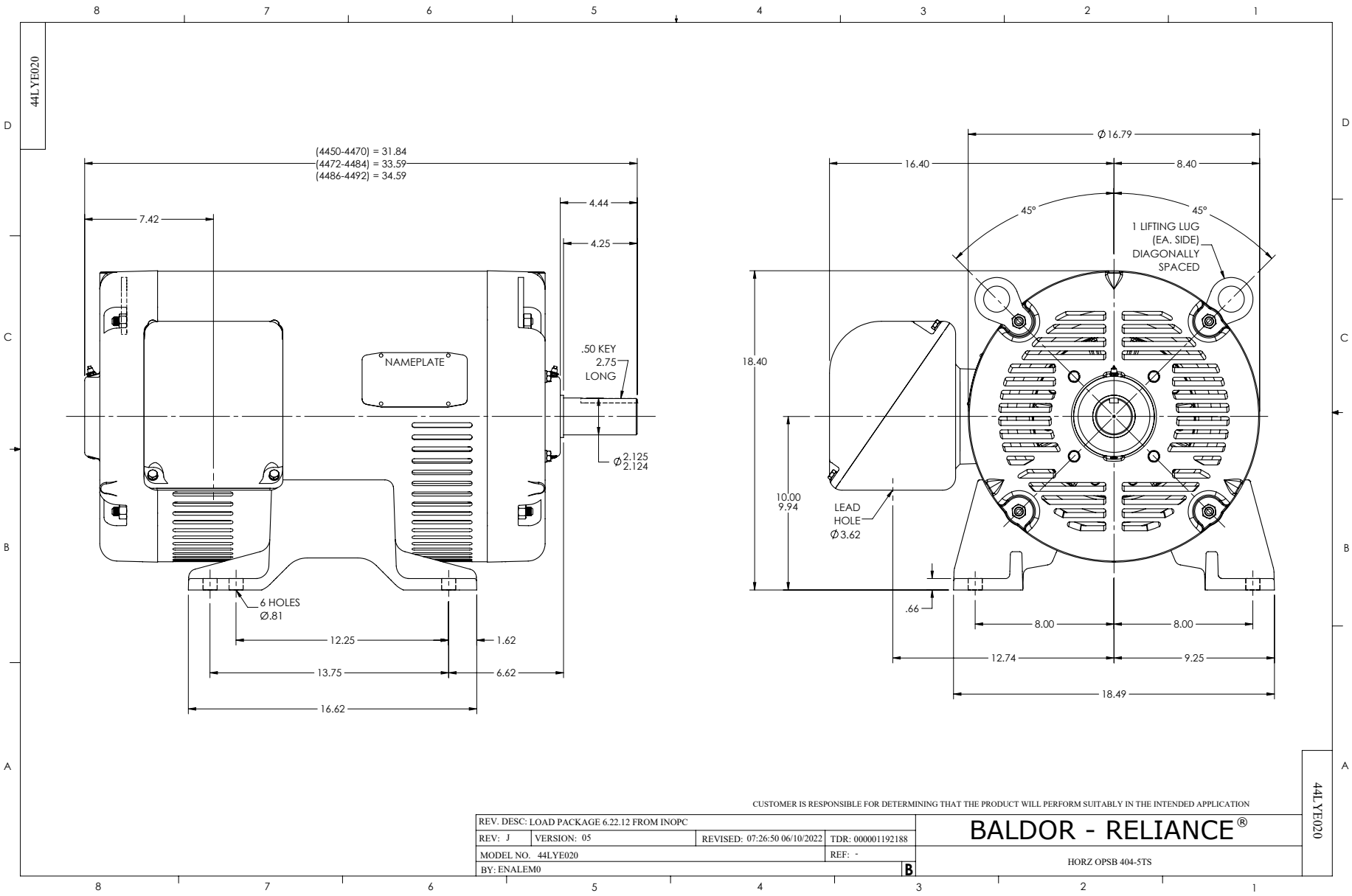
100 HP 3 PH 60 HZ 1775 RPM 575 V 4462M

TORQUES(LB-FT): PO=774 PU=308 LR=437 LRA=540

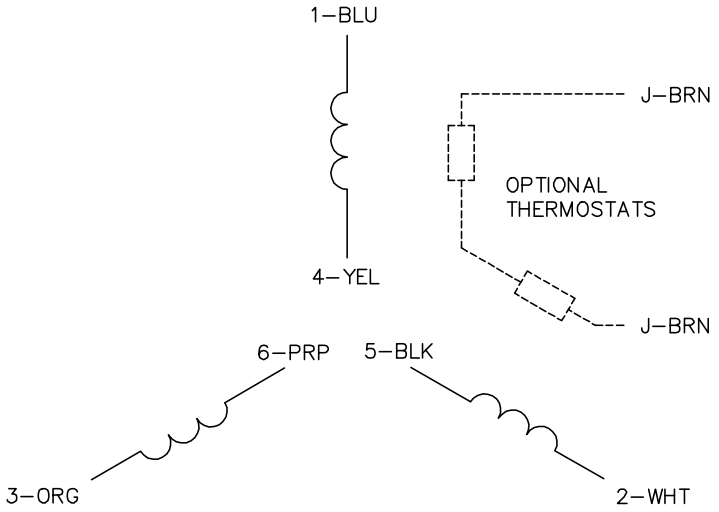
Typical performance - not guaranteed values.

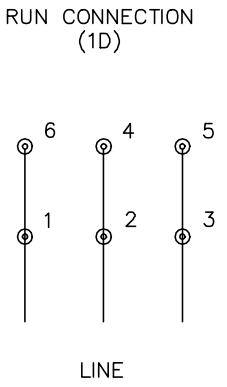


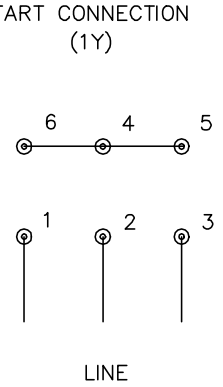
11/15/2026 ACPERF, record # 58316


44LYE020
(4450-4470) = 31.84
(4472-4484) = 33.59
(4486-4492) = 34.59
7.42
4.44
4.25
NAMEPLATE
.50 KEY
2.75
LONG
Ø2.125
2.124
6 HOLES
Ø.81
12.25
1.62
13.75
6.62
16.62
Ø16.79
16.40
8.40
45°
45°
1 LIFTING LUG
(EA. SIDE)
DIAGONALLY
SPACED
18.40
10.00
9.94
LEAD
HOLE
Ø3.62
.66
8.00
8.00
12.74
9.25
18.49
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD PACKAGE 6.22.12 FROM INOPC
REV: J
VERSION: 05
REVISED: 07:26:50 06/10/2022
TDR: 000001192188
MODEL NO. 44LYE020
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ OPSB 404-5TS
44LYE020

CD0382







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.
5. FOR ACROSS–THE–LINE STARTING, USE 'RUN' CONNECTION.

CD0382

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: F	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\243	REVISED: 09:05:32 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 6 LEADS, Y START/D RUN

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